IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS Version 7.2 Fix Pack 1

User's Guide





IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS Version 7.2 Fix Pack 1

User's Guide



Note

Before using this information and the product it supports, read the information in "Notices" on page 765.

© Copyright IBM Corporation 2011, 2016. US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

This edition applies to version 7.2.0.1 of IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS (product number 5724-L92) and to all subsequent releases and modifications until otherwise indicated in new editions.

Contents

Tables	•	•	•	·	•	vii
Chapter 1. Overview of the a	iger	nt .				. 1
IBM Tivoli Monitoring						. 1
Functions of the monitoring agent .						. 1
New in this release						. 2
Components of the IBM Tivoli Monit	torin	g				
environment						. 3
Agent Management Services						. 4
User interface options						. 4
Data sources	•	•	•	•	•	. 5

Chapter 2. Agent installation and

configuration	7
Requirements	. 7
Language pack installation	. 7
Installing language packs on Windows systems.	. 7
Installing language packs on UNIX or Linux	
systems	. 8
Silent installation of language packs on Windows,	
UNIX, or Linux systems	. 8
Agent-specific installation and configuration	10
Before you begin installation and configuration	10
Configuration values	10
Remote installation and configuration	12
Enabling SSL communication with Cisco UCS	
data sources	13
Chapter 3. Workspaces reference	15
Predefined workspaces	15
Workspace descriptions	18
Cisco UCS Navigator item	18
Blade Servers Navigator item	18
Chassis Navigator item	21
Fabric Extender Navigator item	23
Fabric Interconnects Navigator item	24
Faults Navigator item	28
Performance Object Status Navigator item	28
Rack Mount Servers Navigator item	28
Server and Identifier Pools Navigator item	32
Service Profiles Navigator item	33
VMware Navigator item	35
Chapter 4. Attributes reference	39
Attribute groups for the monitoring agent	39
Attributes in each attribute group	55
Chassis Backplane LAN Error attribute group	55
Chassis Backplane LAN Loss attribute group	58
Chassis Backplane LAN Pause attribute group	61
Chassis Backplane LAN Statistics attribute group	63
Chassis Configuration Details attribute group	66
Chassis Fan Health Summary attribute group	68
Chassis Fan Module Configuration attribute	
group	70

Chassis Fan Module Health attribute group .	. 72
Chassis Fan Module Temperature attribute group	74
Chassis Fan Statistics attribute group	. 75
Chassis Hardware Firmware attribute group .	. 77
Chassis Health Summary attribute group	. 78
Chassis IO Backplane Port Health attribute group	81
Chassis IO Module Configuration attribute group	83
Chassis IO Module Health Summary attribute	
group	. 85
Chassis IO Module Temperature attribute group	87
Chassis Power Statistics attribute group	. 88
Chassis PSU Configuration attribute group	. 90
Chassis PSU Health Summary attribute group.	. 91
Chassis PSU Statistics attribute group	. 93
Chassis Slot Details attribute group	. 95
Chassis Slot Utilization Summary attribute group	97
ChassisAndFabricExtender Health Summary	
attribute group	. 98
Cisco UCS Topology attribute group	102
Faults attribute group	103
FEX Backplane Port Config attribute group	106
FEX Backplane Port Error attribute group	108
FEX Backplane Port Loss attribute group	111
FEX Backplane Port Pause attribute group	113
FEX Backplane Statistics attribute group	115
FEX Environment Statistics attribute group	119
FEX Fabric Port Config attribute group	120
FEX Fan Configuration Details attribute group	122
FEX Fan Health Summary attribute group	124
FEX Fan Speed Statistics attribute group	126
FEX Firmware attribute group.	128
FEX Health Summary attribute group	129
FEX IO Backplane Port Health attribute group	132
FEX IO Fabric Port Health attribute group.	134
FEX IO Module Configuration attribute group	136
FEX IO Module Health Summary attribute	105
	137
FEX IO Module Temperature attribute group	139
FEX PSU Configuration Details attribute group	141
FEX PSU Environment Statistics attribute group	142
FEX PSU Health Summary attribute group	144
FI Configuration Details attribute group	140
FI Fan Configuration Details attribute group	148
FI Fan Health Summary attribute group	149
FI Fixed Expansion Configuration attribute	151
El Eived Expansion Dort Health attribute group	151
El Handrigero Eirmeigero attributo aroun	155
FI Harluware Firmware attribute group	155
FI Health Summary attribute group	150
FI LAN Life Statistics attribute group.	169
FI LAN LOSS Statistics attribute group	104
FI LAN Pause Statistics attribute group	160
FI LAN Port Channel Aggregate Statistics	107
attribute group	171
FI LAN Port Channel Statistics attribute group	173
11 Environ Chamiler Statistics attribute group	175
	•••

FI LAN Statistics attribute group	178
FI Port Summary attribute group	181
FI Port Usage attribute group	183
FI PSU Configuration Details attribute group	184
FI PSU Health Summary attribute group	185
FI PSU Statistics attribute group	188
FI SAN Error Statistics attribute group	189
FI SAN Hist Statistics attribute group	192
FI SAN Port Channel Aggregate Statistics	101
attribute group	196
FI SAN Port Channel Statistics attribute group	198
FI SAN Statistics attribute group	203
FI System Statistics attribute group	205
FI Temperature Statistics attribute group	207
MAC Pool Details attribute group	209
Performance Object Status attribute group	210
Policy BIOS Advanced Configurations attribute	014
Balian BLOC Car Gauge tion Communication	214
Policy BIOS Configuration Summary attribute	010
Balian BLOC Canfianna theiland attaile	218
Policy BIOS Configurations attribute group	220
Policy boot Configuration Summary attribute	222
Balian Back Order Configuration Details	223
Policy boot Order Configuration Details	224
Baligy IDML Access Drafile Configuration	224
Summary attribute aroun	226
Balicy IPMI User Configuration Details attribute	220
rolley in Mi User Configuration Details attribute	227
Baliquise SI Boot Order Configuration	221
Summary attribute group	226
Policy is CSI Static Target Interface	220
Configuration Datails attribute group	220
Policy iSCSL vNIC Configuration Summary	22)
attribute group	231
Policy I AN Boot Order Configuration Summary	201
attribute group	233
Policy OoS Configuration Details attribute	200
group	235
Policy Scrub Configuration Details attribute	200
group	236
Policy Serial Over I AN Configuration Details	250
attribute group	237
Policy Storage Boot Order Configuration	_0.
Summary attribute group	239
Policy Virtual Host Interface Configuration	-07
Details attribute group	240
Policy Virtual Media Boot Order Configuration	
Details attribute group	241
Policy vNICvHBA Placement Configuration	
Summary attribute group	242
Pool Initiator Configuration Details attribute	
group	243
Pool MAC Address Configuration Details	
attribute group	245
Pool MAC Configuration Details attribute group	246
Pool Server Configuration Details attribute	
group	247
Pool UUID Block Configuration Details attribute	
group	249
~ .	

Pool UUID Suffix Configuration Details Pool WWN Initiator Block Configuration Details RM Server Adapter Configuration attribute RM Server Adapter Health Summary attribute group 255 RM Server BIOS Firmware attribute group . . 256 RM Server Configuration Details attribute group 258 RM Server CPU Configuration attribute group 259 RM Server CPU Health Summary attribute group 262 RM Server CPU Statistics attribute group . . . 264 RM Server DCE Interface Health attribute group 265 RM Server Disk Configuration attribute group 268 RM Server Disk Health Summary attribute group 270 RM Server Ether Port Comm attribute group 272 RM Server Ether Port Error attribute group . . 274 RM Server Ether Port Large attribute group . . 276 RM Server Ether Port Outsized attribute group 279 RM Server Ether Port Packets attribute group 282 RM Server Ether Port Small attribute group . 284 RM Server Fan Configuration attribute group 287 RM Server Fan Health Summary attribute group 289 RM Server Fan Module Details attribute group 291 RM Server Fan Module Health attribute group 293 RM Server Fan Module Temperature attribute 295 group RM Server Fan Statistics attribute group . . 296 . RM Server FC Port Statistics attribute group . 298 RM Server Firmware attribute group . . . 300 RM Server HBA Configuration attribute group 302 RM Server HBA Health Summary attribute group 305 RM Server Health Summary attribute group . 307 . RM Server Memory Array Health attribute 309 group RM Server Memory Array Statistics attribute group 311 RM Server Memory Array Unit attribute group 313 RM Server Memory Unit Details attribute group 315 RM Server Memory Unit Health attribute group 317 RM Server Memory Unit Temp attribute group 320 RM Server Motherboard Details attribute group 322 RM Server Motherboard Health attribute group 323 RM Server Motherboard Power attribute group 325 RM Server Motherboard Temp attribute group 327 RM Server NIC Configuration attribute group 328 RM Server NIC Health Summary attribute group 331 RM Server PSU Configuration attribute group 333 RM Server PSU Health Summary attribute group 335 RM Server PSU Statistics attribute group . . 337 . RM Server Storage Controller attribute group 339 RM Server Storage Disk attribute group . . . 341 RM Server Storage Disk Health attribute group 343 RM Server Storage Health Summary attribute group 345

RM Server vNIC Statistics attribute group	348
RM Storage Firmware attribute group	350
SAN Pool Details attribute group	352
Server Adapter Configuration attribute group	354
Server Adapter Health Summary attribute group	356
Server Configuration Details attribute group	358
Server CPU Configuration Details attribute	
group	360
Server CPU Health Summary attribute group	363
Server CPU Statistics attribute group	365
Server DCE Interface Summary attribute group	367
Server Disk Configuration attribute group	369
Server Disk Health Summary attribute group	371
Server Ether Port Communication attribute	
group	374
Server Ether Port Error attribute group	376
Server Ether Port Large attribute group	378
Server Ether Port Outsized attribute group	381
Server Ether Port Packets attribute group	384
Server Ether Port Small attribute group	387
Server FC Port Statistics attribute group	390
Server Hardware Firmware attribute group	392
Server HBA Configuration Details attribute	
group	394
Server HBA Health Summary attribute group	398
Server Health Summary attribute group	400
Server Memory Array Statistics attribute group	403
Server Memory Array Unit Details attribute	
group	404
Server Memory Array Unit Health attribute	
group	407
Server Memory Unit Configuration attribute	
group	409
Server Memory Unit Temperature attribute	
group	412
Server Motherboard Configuration attribute	
group	
8	414
Server Motherboard Health attribute group	414 415
Server Motherboard Health attribute group Server Motherboard Power attribute group	414 415 417
Server Motherboard Health attribute group Server Motherboard Power attribute group Server Motherboard Temperature attribute	414 415 417
Server Motherboard Health attribute group Server Motherboard Power attribute group Server Motherboard Temperature attribute group	414415417419
Server Motherboard Health attribute group Server Motherboard Power attribute group Server Motherboard Temperature attribute group	414 415 417 419
Server Motherboard Health attribute group Server Motherboard Power attribute group Server Motherboard Temperature attribute group	 414 415 417 419 421
Server Motherboard Health attribute group Server Motherboard Power attribute group Server Motherboard Temperature attribute group	 414 415 417 419 421 424
Server Motherboard Health attribute group Server Motherboard Power attribute group	 414 415 417 419 421 424 427
Server Motherboard Health attribute group Server Motherboard Power attribute group	 414 415 417 419 421 424 427 428
Server Motherboard Health attribute group Server Motherboard Power attribute group	 414 415 417 419 421 424 427 428 431
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439 441
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439 441
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439 441 442
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439 441 442
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439 441 442 444
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439 441 442 444
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439 441 442 444 446
Server Motherboard Health attribute group	414 415 417 419 421 424 427 428 431 433 436 439 441 442 444 446

Sys Mon FCoE Storage Port Configuration	
Details attribute group	449
Sys Mon Port Channel Configuration Details	
LAN attribute group	450
Sys Mon Port Channel Configuration Details	
SAN attribute group	451
Sys Mon Server Port Configuration Details	
attribute group	453
Sys Mon Storage Port Configuration Details	
attribute group	454
Sys Mon Syslog Local Destination Configuration	
Details attribute group	456
Sys Mon Syslog Local Sources Configuration	
Details attribute group	457
Sys Mon Syslog Remote Destination	10.
Configuration Details attribute group	459
Sys Mon Threshold Policy Configuration	107
Summary attribute group	460
Sys Mon Threshold Policy Definition	100
Configuration Summary attribute group	461
Sys Mon Traffic Monitoring Session Health	101
Summary I AN attribute group	462
Summary Entratic Monitoring Session Health	102
Summary SAN attribute group	161
Summary SAN attribute group	404
Details attribute group	166
Sur Man Unlink EC Part Configuration Dataila	400
sys Mon Oplink FC Fort Configuration Details	160
Attribute group	468
Sys Mon VHDA Configuration Details attribute	460
group	469
Sys Mon VLAN Configuration Details attribute	4771
group	4/1
Sys Mon VINIC Configuration Details attribute	170
	472
Sys Mon VSAN Configuration Details attribute	170
group	473
Thread Pool Status attribute group	474
UCS Servers Health Summary attribute group	477
UUID Suffix Pool Details attribute group	480
VMware Datacenter Configuration Details	
attribute group	481
VMware DVS Configuration Details attribute	
group	483
VMware ESX Host Server Health Summary	
attribute group	485
VMware Folder Configuration Details attribute	
group	487
VMware Port Profile Configuration Summary	
attribute group	488
VMware Profile Client Configuration Details	
attribute group	490
VMware vCenter Folder Configuration	
Summary attribute group	492
VMware vCenter Health Summary attribute	
group	493
VMware VIF Configuration Details attribute	
group	495
VMware Virtual Machine Health Summary	
attribute group	497
VMware vLAN Configuration Details attribute	
group	499

VMware vNIC Health Summary attribute group									
VMware vNIC Interface Configuration Details									
attribute group	502								
Disk capacity planning for historical data	504								

Chapter 5. Situations reference.		513
Predefined situations		. 513
Situation descriptions		. 517
Cisco UCS Navigator item		. 517
Blade Servers Navigator item		. 517
Chassis Navigator item		. 528
Fabric Extender Navigator item		. 536
Fabric Interconnects Navigator item		. 544
Faults Navigator item		. 552
Performance Object Status Navigator item.		. 552
Rack Mount Servers Navigator item		. 552
Server and Identifier Pools Navigator item		. 566
Service Profiles Navigator item		. 569
VMware Navigator item.		. 570

Chapter 6. Take Action commands

reference		575	
Predefined Take Action commands		. 575	
Take Action command descriptions		. 575	
Change Boot Policy of Service Profile action		. 576	
Modify Boot Policy action	•	. 577	
Chanter 7 Policies reference		581	

Chapter 7. I	Polic	ies	re	efe	re	nc	e.	-		581	B
Predefined pol	icies									. 581	C

Chapter 8. Tivoli Common Reporting

for the monitoring agent		· .	583
Cognos-based report packages	-	-	583
Prerequisites	•	•	583
Importing and running Cognos reports	•	•	599
Cognos data models and reports	·	·	500
Using the Cognes data model	·	·	. 577
	•	·	. 020
Chapter 9 Troubleshooting			623
	•	-	023
Trace logging	·	·	. 624
Overview of log file management			. 624
Principal trace log files			. 625
Examples: Using trace logs			. 628
RAS trace parameters			. 629
Dynamic modification of trace settings .			. 631
Setting trace parameters for the Tivoli En	ter	pris	se
Console server		•	. 634
Problems and workarounds			. 634
Installation and configuration troubleshoe	otir	ng	635
Remote deployment troubleshooting .			. 639
Agent troubleshooting			. 639
Workspace troubleshooting			642
Situation troubleshooting	•	•	645
Take Action commands troublesheating	•	•	647
Take Action commanus noubleshooting	•	•	. 04/

Tivoli Common R	lep	orti	ing	tro	oub	les	hoc	otin	g		647
Support information									٠.		649
Informational, warni	ng	, ar	nd (erro	or 1	nes	sag	ges			
overview											650
Message format											650
Agent messages			•		•	•				•	651

Appendix A. Event mapping 653

Appendix B. Discovery Library

Adapter for the Cisco UCS agent	749
DLA data model class types represented in CDM	749
DLA data model classes for Cisco UCS agent.	. 749
CiscoUCSPort class	. 750
CiscoUCSFabricInterconnect class	. 750
CiscoUCSChassis class	. 751
CiscoUCSBladeServer class	. 752
CiscoUCSpool class	. 753
CiscoUCSServiceProfile class	. 753
Chip class	. 754
CiscoUCSInterfaceCard class	. 755
DiskDrive class.	. 756
Board class	. 756
PowerSupply class	. 758
Fan class	. 758

Appendix C. Integration with Tivoli Business Service Manager

Business Service Manager	59
Components for integrating with Tivoli Business	
Service Manager	⁷ 59
Tasks to integrate the agent with Tivoli Business	
Service Manager	760
Installing the Discovery Library Toolkit on the	
Tivoli Business Service Manager	7 60
Configuring the Tivoli Event Integration Facility	
(EIF) probe to enrich events	760
Creating a service in Tivoli Business Service	
Manager	61
Creating a data source mapping for each data	
source	61
Configuring additional IBM Tivoli Monitoring	
web services	/62
Viewing data in the Tivoli Enterprise Portal 7	762
Appendix D. Documentation library 70	63
Prerequisite publications.	763
Related publications	64
Other sources of documentation	'64
Notices 7	65
Trademarka	767
	07

Tables

1.	Capacity planning for historical data logged	
	by the Cisco UCS agent	504
2.	Cisco UCS Report Prerequisite Scanner	600
3.	Cisco UCS Blade Server Performance report	601
4.	Cisco UCS Chassis Performance report	603
5.	Cisco UCS Fabric Extender Performance	
	report	605
6.	Cisco UCS Fabric Interconnect Performance	
	report	607
7.	Cisco UCS Rack Mount Server Performance	
	report	608
8.	Cisco UCS Blade Server Network	
	Performance report	610
9.	Cisco UCS Chassis Network Performance	
	report	612
10.	Cisco UCS Fabric Extender Network	
	Performance report	614
11.	Cisco UCS Fabric Interconnect Network	
	Performance report	616
	-	

12.	Cisco UCS Rack Mount Server Network
	Performance report
13.	Information to gather before contacting IBM
	Software Support
14.	Trace log files for troubleshooting agents 625
15.	Problems and solutions for installation and
	configuration
16.	General problems and solutions for
	uninstallation 637
17.	Remote deployment problems and solutions 639
18.	Agent problems and solutions
19.	Workspace problems and solutions 643
20.	Situation problems and solutions 645
21.	Take Action commands problems and
	solutions
22.	Tivoli Common Reporting for Cisco UCS
	agent problems and solutions

Chapter 1. Overview of the agent

The IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS (product code V6) provides you with the capability to monitor Cisco UCS. You can also use the agent to take basic actions with the Cisco UCS.

IBM[®] Tivoli[®] Monitoring is the base software for the Cisco UCS agent. The Cisco UCS agent monitors the following functions:

- Health
- Network
- Performance

IBM Tivoli Monitoring

IBM Tivoli Monitoring provides a way to monitor the availability and performance of all the systems in your enterprise from one or several designated workstations. It also provides useful historical data that you can use to track trends and to troubleshoot system problems.

You can use IBM Tivoli Monitoring to achieve the following tasks:

- Monitor for alerts on the systems that you are managing by using predefined situations or custom situations.
- Establish your own performance thresholds.
- Trace the causes leading to an alert.
- Gather comprehensive data about system conditions.
- Use policies to take actions, schedule work, and automate manual tasks.

The Tivoli Enterprise Portal is the interface for IBM Tivoli Monitoring products. You can use the consolidated view of your environment as seen in the Tivoli Enterprise Portal to monitor and resolve performance issues throughout the enterprise.

See the IBM Tivoli Monitoring publications listed in "Prerequisite publications" on page 763 for complete information about IBM Tivoli Monitoring and the Tivoli Enterprise Portal.

Functions of the monitoring agent

Fault and Health monitoring

Monitors fault and health of the following Cisco UCS components and their subcomponents, and provides situation information wherever appropriate:

- Fabric interconnect
- Chassis
- Blade server
- Service profiles
- Server and identifier pools
- Fabric extender
- Rack-mount server
- VMware
- ESX host server
- Virtual machine

• vCenter

Network status monitoring

Collects the following network statistics about the ports that are available in the fabric interconnect, blade server, rack-mount server, chassis I/O module, and fabric extender I/O module :

- Error
- Loss
- Pause
- Data transfer

Performance monitoring

Collects the following performance statistics about the Cisco UCS components wherever applicable:

- Thermal
- Power
- Voltage
- Current

Monitoring configuration information

Provides configuration information about the Cisco UCS hardware and the installed firmware.

New in this release

For version 7.2.0.1 of the Cisco UCS agent, the following enhancements were made since version 7.2, including the Fix Packs:

- Changes related to system requirements. See the information about system requirements in Software product compatibility reports (http://www-969.ibm.com/software/reports/compatibility/clarity/ index.html).
- New attribute groups
 - FI LAN Historical Statistics
 - FI LAN Port Channel Aggregate Statistics
 - FI LAN Port Channel Details and Statistics
 - FI SAN Historical Statistics
 - FI SAN Port Channel Aggregate Statistics
 - FI SAN Port Channel Details and Statistics
- New or changed workspaces
 - Fabric Interconnect Hist LAN Port Details
 - Fabric Interconnect LAN Port Channel Current Statistics
 - Fabric Interconnect LAN Port Historical Statistics
 - Fabric Interconnect Hist SAN Port Details
 - Fabric Interconnect SAN Port Channel Current Statistics
 - Fabric Interconnect SAN Port Historical Statistics
- New or changed views
 - Fabric Interconnect LAN Port Channel Aggregate Statistics
 - Fabric Interconnect LAN Port Channel Statistics
 - Fabric Interconnect LAN Historical Statistics
 - LAN Port Network Usage (Bytes)
 - LAN Port Network Usage (packets)
 - Fabric Interconnect SAN Port Channel Aggregate Statistics
- 2 IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS User's Guide

- Fabric Interconnect SAN Port Channel Statistics
- Fabric Interconnect SAN Historical Statistics
- SAN Port Network Usage (Bytes)
- SAN Port Network Usage (packets)

Components of the IBM Tivoli Monitoring environment

After you install and set up the Cisco UCS agent, you have an environment that contains the client, server, and monitoring agent implementation for Tivoli Monitoring.

This Tivoli Monitoring environment contains the following components:

Tivoli Enterprise Portal client

The portal has a user interface based on JavaTM for viewing and monitoring your enterprise.

Tivoli Enterprise Portal Server

The portal server is placed between the client and the Tivoli Enterprise Monitoring Server and enables retrieval, manipulation, and analysis of data from the monitoring agents. The Tivoli Enterprise Portal Server is the central repository for all user data.

Tivoli Enterprise Monitoring Server

The monitoring server acts as a collection and control point for alerts received from the monitoring agents, and collects their performance and availability data. The Tivoli Enterprise Monitoring Server is also a repository for historical data.

Tivoli Enterprise Monitoring Agent, Cisco UCS agent

This monitoring agent collects data and distributes the data to the Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, Tivoli Enterprise Portal, Tivoli Data Warehouse, and Tivoli Integrated Portal.

This agent can run on a separate system from the system where the Cisco UCS is running.

Multiple copies of this agent can run on the same system.

IBM Tivoli Netcool/OMNIbus

Tivoli Netcool/OMNIbus is an optional component and the recommended event management component. The Netcool/OMNIbus software is a service level management (SLM) system that delivers real-time, centralized monitoring of complex networks and IT domain events. Event information is tracked in a high-performance, in-memory database and presented to specific users through individually configurable filters and views. The software includes automation functions that you can use to perform intelligent processing on managed events. You can use this software to forward events for Tivoli Monitoring situations to Tivoli Netcool/OMNIbus.

IBM Tivoli Enterprise Console®

The Tivoli Enterprise Console is an optional component that acts as a central collection point for events from various sources, including events from other Tivoli software applications, Tivoli partner applications, custom applications, network management platforms, and relational database systems. You can view these events through the Tivoli Enterprise Portal (by using the event viewer), and you can forward events from Tivoli Monitoring situations to the Tivoli Enterprise Console component.

If you do not already use Tivoli Enterprise Console and need an event management component, you can choose to use IBM Tivoli Netcool/OMNIbus.

IBM Tivoli Common Reporting

Tivoli Common Reporting is a separately installable feature available to users of Tivoli software that provides a consistent approach to generating and customizing reports. Some individual products provide reports that are designed for use with Tivoli Common Reporting and have a consistent look and feel.

IBM Tivoli Application Dependency Discovery Manager (TADDM)

TADDM delivers automated discovery and configuration tracking capabilities to build application maps that provide real-time visibility into application complexity.

IBM Tivoli Business Service Manager

The Tivoli Business Service Manager component delivers real-time information to help you respond to alerts effectively based on business requirements. Optionally, you can use this component to meet service-level agreements (SLAs).

Use the Tivoli Business Service Manager tools to help build a service model that you can integrate with Tivoli Netcool/OMNIbus alerts or optionally integrate with data from an SQL data source. Optional components provide access to data from other IBM Tivoli applications such as Tivoli Monitoring and TADDM.

IBM Dashboard Application Services Hub

The Dashboard Application Services Hub has a core set of components that provide such administrative essentials as network security and database management. This component replaces the Tivoli Integrated Portal component after version 2.2.

Tivoli Integrated Portal

Tivoli Integrated Portal helps the interaction and secure passing of data between Tivoli products through a common portal. You can launch from one application to another and within the same dashboard view research different aspects of your managed enterprise. This component is installed automatically with the first Tivoli product that uses the Tivoli Integrated Portal framework. Subsequent products can install updated versions of Tivoli Integrated Portal. After version 2.2, this component is replaced by the Dashboard Application Services Hub.

Agent Management Services

You can use IBM Tivoli Monitoring Agent Management Services to manage the Cisco UCS agent.

Agent Management Services is available for the following IBM Tivoli Monitoring OS agents: Windows, Linux, and UNIX. The services are designed to keep the Cisco UCS agent available, and to provide information about the status of the product to the Tivoli Enterprise Portal.

IBM Tivoli Monitoring V6.3 Fix Pack 2 or later provides support for Agent Management Services. For more information about Agent Management Services, see *Agent Management Services* in the *IBM Tivoli Monitoring Administrator's Guide*.

User interface options

Installation of the base IBM Tivoli Monitoring software and other integrated applications provides various interfaces that you can use to work with your resources and data.

The following interfaces are available:

Tivoli Enterprise Portal user interface

You can run the Tivoli Enterprise Portal as a desktop application or a browser application. The client interface is a graphical user interface (GUI) based on Java on a Windows or Linux workstation. The browser application is automatically installed with the Tivoli Enterprise Portal Server. The desktop application is installed by using the Tivoli Monitoring installation media or with a Java Web Start application. To start the Tivoli Enterprise Portal browser client in your Internet browser, enter the URL for a specific Tivoli Enterprise Portal browser client installed on your Web server.

Command-line interface

You can use Tivoli Monitoring commands to manage the Tivoli Monitoring components and their

configuration. You can also run commands at the Tivoli Enterprise Console event server or the Tivoli Netcool/OMNIbus ObjectServer to configure event synchronization for enterprise situations.

Manage Tivoli Enterprise Monitoring Services window

You can use the window for the Manage Tivoli Enterprise Monitoring Services utility to configure the agent and start Tivoli services not designated to start automatically.

IBM Tivoli Netcool/OMNIbus event list

You can use the Netcool/OMNIbus event list to monitor and manage events. An event is created when the Netcool/OMNIbus ObjectServer receives an event, alert, message, or data item. Each event is made up of columns (or fields) of information that are displayed in a row in the ObjectServer alerts.status table. The Tivoli Netcool/OMNIbus web GUI is also a web-based application that processes network events from one or more data sources and presents the event data in various graphical formats.

IBM Tivoli Enterprise Console

You can use the Tivoli Enterprise Console to help ensure the optimal availability of an IT service for an organization. The Tivoli Enterprise Console is an event management application that integrates system, network, database, and application management. If you do not already use Tivoli Enterprise Console and need an event management component, you can choose to use Tivoli Netcool/OMNIbus.

IBM Tivoli Common Reporting

Use the Tivoli Common Reporting web user interface for specifying report parameters and other report properties, generating formatted reports, scheduling reports, and viewing reports. This user interface is based on the Dashboard Application Services Hub for Tivoli Common Reporting 3.1 and on Tivoli Integrated Portal for earlier versions.

IBM Tivoli Application Dependency Discovery Manager

The Discovery Management Console is the TADDM client user interface for managing discoveries.

IBM Tivoli Business Service Manager

The Tivoli Business Service Manager console provides a graphical user interface that you can use to logically link services and business requirements within the service model. The service model provides an operator with a second-by-second view of how an enterprise is performing at any moment in time or how the enterprise performed over a time period.

IBM Dashboard Application Services Hub

The Dashboard Application Services Hub provides an administrative console for applications that use this framework. It is a web-based console that provides common task navigation for products, aggregation of data from multiple products into a single view, and the passing of messages between views from different products. This interface replaces the Tivoli Integrated Portal component after version 2.2.

Tivoli Integrated Portal

Web-based products that are built on the Tivoli Integrated Portal framework share a common user interface where you can launch applications and share information. After version 2.2, this interface is replaced by the Dashboard Application Services Hub.

Data sources

Monitoring agents collect data from specific data sources. All the attributes that are gathered by the Cisco UCS agent come from HTTP requests that are sent to the Cisco UCS Manager.

Chapter 2. Agent installation and configuration

Agent installation and configuration requires the use of the *IBM Tivoli Monitoring Installation and Setup Guide* and agent-specific installation and configuration information.

To install and configure the Cisco UCS agent, use the *Installing monitoring agents* procedures in the *IBM Tivoli Monitoring Installation and Setup Guide* along with the agent-specific installation and configuration information.

If you are installing silently by using a response file, see *Performing a silent installation of IBM Tivoli Monitoring* in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Requirements

Before installing and configuring the agent, make sure your environment meets the requirements for the IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS.

For information about system requirements, see the Software product compatibility reports (http://www-969.ibm.com/software/reports/compatibility/clarity/index.html). Search for the Tivoli Monitoring for Virtual Environments product.

Language pack installation

The steps for installing language packs depend on which operating system and mode of installation you are using.

To install a language pack for the agent support files on the Tivoli Enterprise Monitoring Server, the Tivoli Enterprise Monitoring Agent, and the Tivoli Enterprise Portal Server, make sure that you installed the product in the English language. Then use the steps for the operating system or mode of installation you are using:

- "Installing language packs on Windows systems"
- "Installing language packs on UNIX or Linux systems" on page 8
- "Silent installation of language packs on Windows, UNIX, or Linux systems" on page 8

Installing language packs on Windows systems

You can install the language packs on a Windows system.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

- 1. On the language pack CD, double-click the lpinstaller.bat file to start the installation program.
- 2. Select the language of the installer and click OK.
- 3. In the Introduction panel, click Next
- 4. Click Add/Update and click Next.
- 5. Select the folder where the National Language Support package (NLSPackage) files are located. Typically, the NLSPackage files are located in the nlspackage folder where the installer executable file is located.

- 6. Select the language support for the agent of your choice and click **Next**. To make multiple selections, press Ctrl and select the language that you want.
- 7. Select the languages that you want to install and click Next.
- 8. Examine the installation summary page and click Next to begin installation.
- 9. After installation completes, click Finish to exit the installer.
- **10**. Restart the Tivoli Enterprise Portal, Tivoli Enterprise Portal Server, and Eclipse Help Server if any of these components are installed.

Installing language packs on UNIX or Linux systems

You can install the language packs on a UNIX or Linux system.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

- 1. Enter the mkdir command to create a temporary directory on the computer, for example, mkdir *dir_name*. Make sure that the full path of the directory does not contain any spaces.
- 2. Mount the language pack CD to the temporary directory that you created.
- 3. Enter the following command to start the installation program: cd *dir_name* lpinstaller.sh -c *install_dir* where *install_dir* is where you installed IBM Tivoli Monitoring. Typically, the directory name is /opt/IBM/ITM for UNIX and Linux systems.
- 4. Select the language of the installer and click OK.
- 5. In the Introduction panel, click **Next**.
- 6. Click Add/Update and click Next.
- Select the folder where the National Language Support package (NLSPackage) files are located. Typically, the NLSPackage files are located in the nlspackage folder where the installer executable file is located.
- 8. Select the language support for the agent of your choice and click **Next**. To make multiple selections, press Ctrl and select the language that you want.
- 9. Select the languages that you want to install and click Next.
- 10. Examine the installation summary page and click **Next** to begin installation.
- 11. After installation completes, click Finish to exit the installer.
- **12**. Restart the Tivoli Enterprise Portal, Tivoli Enterprise Portal Server, and Eclipse Help Server if any of these components are installed.

Silent installation of language packs on Windows, UNIX, or Linux systems

You can use the silent-mode installation method to install the language packs. In silent mode, the installation process obtains the installation settings from a predefined response file. It does not prompt you for any information.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

- 1. Copy and paste the ITM_Agent_LP_silent.rsp response file template as shown in "Response file example" on page 9.
- 2. Change the following parameter settings:
- 8 IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS User's Guide

NLS_PACKAGE_FOLDER

Folder where the National Language Support package (NLSPackage) files are located. Typically, the NLSPackage files are located in the nlspackage folder, for example: NLS_PACKAGE_FOLDER = //tmp//LP//nlspackage.

PROD_SELECTION_PKG

Name of the language pack to install. Several product components can be included in one language package. You might want to install only some of the available components in a language pack.

BASE_AGENT_FOUND_PKG_LIST

Agent for which you are installing language support. This value is usually the same as *PROD_SELECTION_PKG*.

LANG_SELECTION_LIST

Language you want to install.

- 3. Enter the command to install the language pack with a response file (silent installation):
 - For Windows systems:
 - lpinstaller.bat -f path_to_response_file
 - For UNIX or Linux systems: lpinstaller.sh -c candle_home -f path_to_response_file

where *candle_home* is the IBM Tivoli Monitoring base directory.

Response file example

```
IBM Tivoli Monitoring Agent Language Pack Silent Installation Operation
#This is a sample response file for silent installation mode for the IBM Tivoli
#Monitoring Common Language Pack Installer.
#.
#This file uses the IBM Tivoli Monitoring Common Agent Language Pack with the
#install package as an example.
#Note:
#This response file is for the INSTALLATION of language packs only.
#This file does not support UNINSTALLATION of language packs in silent mode.
#------
#-----
#To successfully complete a silent installation of the the example of Common Agent
#localization pack, complete the following steps:
#1.Copy ITM Agent LP silent.rsp to the directory where lpinstaller.bat or
#lpinstaller.sh is located (IBM Tivoli Monitoring Agent Language Pack build
#location).
#2.Modify the response file so that it is customized correctly and completely for
#your site.
  Complete all of the following steps in the response file.
#3.After customizing the response file, invoke the silent installation using the
#following command:
#For Windows:
   lpinstaller.bat -f <path_to_response_file>
#For UNIX and Linux:
   lpinstaller.sh -c <candle home> -f <path to response file>
#Note:<candle home> is the IBM Tivoli Monitoring base directory.
#_____
#-----
#Force silent install mode.
#-----
INSTALLER UI=silent
#-----
```

[#]Run add and update actions.

```
#_____
CHOSEN INSTALL SET=ADDUPD SET
#_____
#NLS Package Folder, where the NLS Packages exist.
#For Windows:
 Use the backslash-backslash(\\) as a file separator (for example,
#C:\\zosgmv\\LCD7-3583-01\\nlspackage).
#For UNIX and Linux:
# Use the slash-slash (//) as a file separator (for example,
#//installtivoli//lpsilenttest//nlspackage).
#NLS PACKAGE FOLDER=C:\\zosgmv\\LCD7-3583-01\\nlspackage
NLS PACKAGE FOLDER=//tmp//LP//nlspackage
#_____
#List the packages to process; both variables are required.
#Each variable requires that full paths are specified.
#Separate multiple entries with a semicolon (;).
#For Windows:
        Use the backslash-backslash(\\) as a file separator.
#
#For Unix and Linux:
#
       Use the slash-slash (//) as a file separator.
#_____
#PROD SELECTION PKG=C:\\zosgmv\\LCD7-3583-01\\nlspackage\\KIP NLS.nlspkg
#BASE AGENT FOUND PKG LIST=C:\\zosgmv\\LCD7-3583-01\\nlspackage\\KIP NLS.nlspkg
PROD SELECTION PKG=//tmp//LP//nlspackage//kex nls.nlspkg;//tmp//LP//nlspackage//
koq nls.nlspkg
BASE_AGENT_FOUND_PKG_LIST=//tmp//LP//nlspackage//kex_nls.nlspkg;//
tmp//LP//nlspackage//koq nls.nlspkg
#-----
#List the languages to process.
#Separate multiple entries with semicolons.
#_____
LANG SELECTION_LIST=pt_BR;fr;de;it;ja;ko;zh_CN;es;zh_TW
```

Agent-specific installation and configuration

In addition to the installation and configuration information in the *IBM Tivoli Monitoring Installation and Setup Guide*, use this agent-specific installation and configuration information to install the Cisco UCS agent.

Before you begin installation and configuration

Complete the following tasks before you begin any installation or configuration steps:

- 1. Review the hardware and software prerequisites.
- 2. Review the installation and configuration information inChapter 9, "Troubleshooting," on page 623.
- **3**. To connect to the Cisco UCSM infrastructure, you must have aaa or admin privileges. Use an existing user ID, which has aaa or admin privileges, or create a new user ID.
- 4. If the Cisco UCS agent is configured to communicate with its Cisco UCS data sources using the SSL agent, add the SSL certificate of each data source to the certificate truststore of the agent. For more information about enabling SSL communication with Cisco UCS data sources, see "Enabling SSL communication with Cisco UCS data sources" on page 13.

Configuration values

For both local and remote configuration, you provide the configuration values for the agent to operate.

When you are configuring an agent, a panel is displayed so you can enter each value. When a default value exists, this value is pre-entered into the field. If a field represents a password, two entry fields are displayed. You must enter the same value in each field. The values you type are not displayed to help maintain the security of these values.

The configuration for this agent is organized into the following groups:

CONFIG (CONFIG)

Cisco UCS Agent Configuration

The configuration elements defined in this group are always present in the agent's configuration.

This group defines information that applies to the entire agent.

Password (KV6_PASSWORD)

Cisco UCS Manager Admin Password

The type is password.

This value is required.

Default value: None

SSL truststore file path (KV6_SSL_TRUSTSTORE_FILE_PATH)

SSL truststore file path

The type is browse.

This value is optional.

Default value: None

Note: To enable SSL, provide the path to the SSL truststore file as C:\keyfiles\kv6.truststore.

Validate SSL Certificates (KV6_SSL_VALIDATE_CERTIFICATES)

SSL truststore file path

The type is one of the following values: ""Yes (Recommended)"", ""No (Potentially Insecure)"".

This value is optional.

Default value: Yes (Recommended)

URL (KV6_URL)

Cisco UCS Manager URL

The type is string.

This value is required.

Default value: None

Note: Append the Cisco UCS Manager URL with /nuova. For example, http://10.44.184.45/nuova.

Username (KV6_USERNAME)

Cisco UCS Manager Admin User Name

The type is string.

This value is required.

Default value: None

LOG_CONFIG (LOG_CONFIG)

Cisco UCS Agent Logging Configuration

The configuration elements defined in this group are always present in the agent's configuration.

This group defines information that applies to the entire agent.

Maximum Number of Data Provider Log Files (KV6_LOG_FILE_MAX_COUNT)

The maximum number of data provider log files that are created.

The type is numeric.

This value is required.

Default value: 10

Maximum Size in KB of Each Data Provider Log (KV6_LOG_FILE_MAX_SIZE)

The maximum size in KB that a data provider log file may reach before a new log file is created.

The type is numeric.

This value is required.

Default value: 5190

Level of Detail in Data Provider Log (KV6_LOG_LEVEL)

The maximum size in KB that a data provider log file may reach before a new log file is created.

The type is one of the following values: ""Off"", ""Severe"", ""Warning"", ""Info"", ""Config"", ""Fine"", ""Finer"", ""Finest", ""All"".

This value is required.

Default value: INFO

Remote installation and configuration

You can install the monitoring agent remotely from the Tivoli Enterprise Portal or from the command line.

When installing the agent remotely, you must provide the configuration values for the agent to operate. See "Configuration values" on page 10.

To install from the portal, see the IBM Tivoli Monitoring Installation and Setup Guide.

To remotely install or configure an agent through the Tivoli Enterprise Portal, you must have installed the application support for that agent (Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, and Tivoli Enterprise Portal). You must also have installed the agent bundle into the Remote Deploy Depot.

For information about displaying the configuration options that are available to use with the **configureSystem** or **addSystem** commands see "tacmd describeSystemType" in the *IBM Tivoli Monitoring Command Reference*.

If you are using the command line, the following command is an example of remote installation and configuration for Windows operating systems:

tacmd addSystem -t V6 -n Primary:sample.node.name:NT -p CONFIG.KV6_PASSWORD=value CONFIG.KV6_SSL_TRUSTSTORE_FILE_PATH=value CONFIG.KV6_SSL_VALIDATE_CERTIFICATES=value CONFIG.KV6_URL=value LOG_CONFIG.KV6_LOG_FILE_MAX_COUNT=value LOG_CONFIG.KV6_LOG_FILE_MAX_SIZE=value LOG_CONFIG.KV6_LOG_LEVEL=value INSTANCE="inst1"

Enabling SSL communication with Cisco UCS data sources

You can configure the Cisco UCS agent to securely communicate with its Cisco UCS data sources by using SSL. To enable SSL communication, you must add a data source SSL certificate to the certificate truststore of the agent.

About this task

Important: The following information applies only if the agent is configured to validate SSL certificates.

If SSL certificate validation is turned off, the Cisco UCS agent connects to Cisco UCS data sources even if their SSL certificates are expired, untrusted, or invalid. However, turning off SSL certificate validation is potentially not secure and must be done with care.

If a Cisco UCS data source uses an SSL certificate that is signed by a common Certificate Authority (for example, Verisign, Entrust, or Thawte), then it is not necessary to add certificates to the Cisco UCS agent certificate truststore. However, if the data source uses a certificate that is not signed by a common Certificate Authority, as is the case by default, the certificate must be added to the truststore to allow the agent to successfully connect and collect data.

Procedure

- 1. Copy the certificate file from your data source to the agent computer.
- 2. On the agent computer, place the certificate file in a directory of your choice. Do not overwrite the certificate files. Use a unique file name and label for each certificate that you add.
- 3. Use the keytool command to add the data source certificate to the certificate truststore of the agent:

```
keytool -import -noprompt -trustcacerts -alias CertificateAlias -file
CertificateFile -keystore Truststore -storepass TruststorePassword
Where:
```

CertificateAlias

A unique reference for each certificate added to the certificate truststore of the agent, for example, an appropriate alias for the certificate from *datasource.example.com* is *datasource*.

CertificateFile

The complete path and file name to the Cisco UCS data source certificate to add to the truststore.

Truststore

Complete path and file name to the Cisco UCS agent certificate database. Use the following path and file name:

- Windows (32-bit): install_dir\tmaitm6\kv6.truststore
- Windows (64 bit): install_dir\tmaitm6_x64\kv6.truststore
- Linux (32-bit): install_dir/li6263/v6/etc/kv6.truststore
- Linux (64 bit): install_dir/lx8266/vm/etc/kv6.truststore

TruststorePassword

ITMFORVE is the default password for the Cisco UCS agent truststore. To change this password, consult the Java Runtime documentation for information about the tools to use.

Important: To use the keytool command, the Java Runtime bin directory must be in your path. Use the following commands:

- Windows (32-bit): set PATH=%PATH%;install_dir\CNPSJ\java\bin
- Windows (64 bit): set PATH=%PATH%;install_dir\CNPSJ\java\bin
- Linux (32-bit): PATH="\$PATH":install_dir/JRE/li6263/bin

- Linux (64 bit): PATH="\$PATH":install_dir/JRE/1x8266/bin
- 4. After you add all the data source certificates, start the monitoring agent.

Chapter 3. Workspaces reference

A workspace is the working area of the Tivoli Enterprise Portal application window. The Navigator tree contains a list of the workspaces provided by the agent.

About workspaces

Use the Navigator tree to select the workspace you want to see. As part of the application window, the status bar shows the Tivoli Enterprise Portal Server name and port number to which the displayed information applies and the ID of the current user.

When you select an item in the Navigator tree, a default workspace is displayed. When you right-click a Navigator item, a menu that includes a Workspace item is displayed. The Workspace item contains a list of workspaces for that Navigator item. Each workspace has at least one view. Some views have links to other workspaces. You can also use the Workspace Gallery tool as described in the *Tivoli Enterprise Portal User's Guide* to open workspaces.

The workspaces in the Navigator are displayed in a Physical view that shows your enterprise as a physical mapping or a dynamically populated logical view that is agent-specific. You can also create a Logical view. The Physical view is the default view.

This monitoring agent provides predefined workspaces. You cannot modify or delete the predefined workspaces, but you can create new workspaces by editing them and saving the changes with a different name.

Workspace views can be any combination of query-based views, event views, and special purpose views.

Additional information about workspaces

For more information about creating, customizing, and working with workspaces, see "Using workspaces" in the *Tivoli Enterprise Portal User's Guide*.

For a list of the predefined workspaces for this monitoring agent and a description of each workspace, see Predefined workspaces and the information about each individual workspace.

Some attribute groups for this monitoring agent might not be represented in the predefined workspaces or views for this agent. For a full list of the attribute groups, see "Attribute groups for the monitoring agent" on page 39.

If you are using remote management to navigate to your systems in the Tivoli Enterprise Portal, navigate from the host name of the computer where you installed the agent.

Predefined workspaces

The Cisco UCS agent provides predefined workspaces, which are organized by Navigator item.

- Cisco UCS Navigator item
 - Cisco UCS workspace
 - Cisco UCS Topology workspace
- Blade Servers Navigator item
 - Blade Server Adapter Health workspace
 - Blade Server Configurations workspace

- Blade Server CPU Details workspace
- Blade Server DCE Interface Details workspace
- Blade Server HBA Details workspace
- Blade Server Health workspace
- Blade Server Memory Array Unit Details workspace
- Blade Server Motherboard Details workspace
- Blade Server NIC Details workspace
- Blade Servers workspace
- Chassis Navigator item
 - Chassis workspace
 - Chassis Backplane Port Network Details workspace
 - Chassis Configuration workspace
 - Chassis Details workspace
 - Chassis Fan Module Details workspace
 - Chassis Health workspace
 - Chassis I/O Module Details workspace
 - Chassis PSU Details workspace
- Fabric Extender Navigator item
 - Fabric Extender workspace
 - Fabric Extender Backplane Port Network Details workspace
 - Fabric Extender Configuration workspace
 - Fabric Extender Details workspace
 - Fabric Extender Fan Details workspace
 - Fabric Extender Health workspace
 - Fabric Extender I/O Module Details workspace
 - Fabric Extender PSU Details workspace
- Fabric Interconnects Navigator item
 - Fabric Interconnect Configurations workspace
 - Fabric Interconnect Details workspace
 - Fabric Interconnect Health workspace
 - Fabric Interconnect Hist LAN Port Details workspace
 - Fabric Interconnect Hist SAN Port Details workspace
 - Fabric Interconnect LAN Port Channel Current Statistics workspace
 - Fabric Interconnect LAN Port Details workspace
 - Fabric Interconnect LAN Port Historical Statistics workspace
 - Fabric Interconnect PSU Details workspace
 - Fabric Interconnect SAN Port Channel Current Statistics workspace
 - Fabric Interconnect SAN Port Details workspace
 - Fabric Interconnect SAN Port Historical Statistics workspace
 - Fabric Interconnects workspace
 - Traffic Monitoring Session Source Configurations (LAN) workspace
 - Traffic Monitoring Session Source Configurations (SAN) workspace
 - Traffic Monitoring Sessions workspace
- · Faults Navigator item
 - Faults workspace

- Faults, Events and Logs Configuration workspace
- Performance Object Status Navigator item
 - Performance Object Status workspace
- Rack Mount Servers Navigator item
 - Rack Mount Servers workspace
 - Rack-Mount Server Adapter Health workspace
 - Rack-Mount Server Configurations workspace
 - Rack-Mount Server CPU Details workspace
 - Rack-Mount Server DCE Interface Details workspace
 - Rack-Mount Server Fan Module Details workspace
 - Rack-Mount Server HBA Details workspace
 - Rack-Mount Server Health workspace
 - Rack-Mount Server Memory Array Unit Details workspace
 - Rack-Mount Server Motherboard Details workspace
 - Rack-Mount Server NIC Details workspace
 - Rack-Mount Server PSU Details workspace
- · Server and Identifier Pools Navigator item
 - MAC Pool Configurations workspace
 - SAN Pool Configurations workspace
 - Server and Identifier Pools workspace
 - Server Pool Configurations workspace
 - UUID Suffix Pool Configurations workspace
- Service Profiles Navigator item
 - BIOS Policy Advanced Configurations workspace
 - BIOS Policy Configurations workspace
 - Boot Policy Order workspace
 - Boot Policy Order Configurations workspace
 - IPMI Access Profile Policy Configurations workspace
 - iSCSI Boot Parameter Configurations workspace
 - QoS Policy Configurations workspace
 - Service Profile Associated Policy Configurations workspace
 - Service Profile Health workspace
 - Service Profiles workspace
 - Threshold Policy Definition Configurations workspace
 - Threshold Policy Definitions workspace
 - vNIC/vHBA Placement Policy Configurations workspace
- VMware Navigator item
 - ESX Host Server Health workspace
 - Port Profile Configurations workspace
 - vCenter Configurations workspace
 - vCenter Folder Configurations workspace
 - Virtual Machine Health workspace
 - VMware workspace
 - vNIC Configurations workspace

Workspace descriptions

Each workspace description provides information about the workspace such as the purpose and a list of views in the workspace.

Workspaces are listed under Navigator items.

Cisco UCS Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **Cisco UCS workspace**

This workspace provides the health status of major Cisco UCS components.

This workspace contains the following views:

Servers Health Summary

Displays the health and operational status of all the blade and rack-mount servers. **Chassis and Fabric Extender Health Summary**

Displays the health and operational status of all the chassis and fabric extender.

Fabric Interconnect Health Summary

Displays the health and management configuration details of the fabric interconnect.

Cisco UCS Topology workspace

This workspace provides the hierarchy of the Cisco UCS system topology that includes components and subcomponents of the Cisco UCS system.

This workspace contains the following view: **Topology**

Displays the topological view of the Cisco UCS system.

Blade Servers Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **Blade Server Adapter Health workspace**

This workspace provides the health and configuration details of the network cards that are associated with the adapter.

This workspace contains the following views:

Adapter Health Summary - All Peers

Displays a health summary of adapters that are associated with the blade servers.

NIC Health Summary

Displays the health and operational status of a network interface card (NIC) and its associated vNIC.

HBA Health Summary

Displays the health and operational status of a host bus adapter (HBA) and its associated virtual host bus adapter (vHBA).

DCE Interface Summary

Displays the configuration details of the data communications equipment (DCE) interfaces.

Blade Server Configurations workspace

This workspace provides details of the installed firmware and the hardware configuration of various blade server components.

This workspace contains the following views:

Blade Server Health Summary - All Peers

Displays a health summary of all the blade servers.

Blade Server Configuration Details

Displays the configuration details of the blade server hardware.

Memory Unit Configuration Details

Displays the hardware configuration details of the blade server memory units.

CPU Configuration Details Displays the hardware configuration details of the blade server CPUs. Disk Configuration Details Displays the hardware configuration details of the blade server disks. NIC Configuration Details Displays the hardware configuration details of the blade server NICs. **HBA Configuration Details** Displays the hardware configuration details of the blade server HBAs. Firmware Details Displays the firmware details of various blade server components. Blade Server CPU Details workspace This workspace provides a graphical representation of the CPU statistics. This workspace contains the following views: **CPU Health Summary - All Peers** Displays a health summary of all the blade server CPUs. **CPU Current Statistics** Displays details about the CPU current. **CPU** Temperature Statistics Displays the temperature statistics of the CPU. Blade Server DCE Interface Details workspace This workspace provides communication statistics of the DCE interface. This workspace contains the following views: **DCE Interface Summary - All Peers** Displays the distinguished names of all the DCE interfaces that are associated with the blade server adapter. **Ethernet Port Error Statistics** Displays the error statistics of the Ethernet port. Ethernet Port Communication Statistics (Rx) Displays the communication statistics of packets that are received by the DCE interface. Ethernet Port Communication Statistics (Tx) Displays the communication statistics of packets that are sent by the DCE interface. Ethernet Port Packets Statistics (Rx) Displays the statistics of packets that are received at the DCE interface. Ethernet Port Packets Statistics (Tx) Displays the statistics of packets that are sent by the DCE interface. Blade Server HBA Details workspace This workspace provides various communication statistics of the HBA and vHBA. This workspace contains the following views: HBA Health Summary - All Peers Displays a health summary of all HBAs that are associated with the blade server adapter. FC Port Statistics Displays the statistics of sent and received packets at the HBA. **vNIC** Statistics Displays details about the number of dropped packets and errors that occurred while receiving or sending data through the HBA and vHBA. Blade Server Health workspace This workspace provides a health summary of various blade server components. This workspace contains the following views: Blade Server Health Summary - All Peers Displays the overall health of all the blade servers. Motherboard Health Summary Displays the health and operational status of the motherboard. Memory Array Unit Health Summary Displays the health and operational status of the memory array unit.

CPU Health Summary

Displays the health and operational status of the CPU.

Storage Controller Health Summary

Displays the health and operational status of the storage controller.

Disk Health Summary

Displays the health and operational status of the disk.

Adapter Health Summary

Displays the health and operational status of the adapter.

Blade Server Memory Array Unit Details workspace

This workspace provides a graphical representation for the memory array unit statistics.

This workspace contains the following views:	
--	--

Memory Array Unit Health Summary - All Peers

Displays the overall health of all the blade server memory array units.

Memory Array Unit Current Statistics

Displays details about the current that is used by the memory array unit.

Memory Units Temperature Statistics

Displays details about the temperature statistics of all the memory units, which are associated with the memory array units.

Blade Server Motherboard Details workspace

This workspace provides a graphical representation of various statistics of the blade server motherboard.

This workspace contains the following views:

Motherboard Health Summary - All Peers

Displays the overall health of all the blade server motherboards.

Motherboard Power Statistics

Displays details about the power that is consumed by the motherboard.

Motherboard Current Statistics

Displays details about the current that is used by the motherboard.

Motherboard Voltage Statistics

Displays details about the voltage that is used by the motherboard.

Motherboard Temperature Statistics

Displays details about the temperature statistics of the motherboard.

Blade Server NIC Details workspace

This workspace provides various communication statistics of the NIC and vNIC.

This workspace contains the following views:

NIC Health Summary - All Peers

Displays a health summary of all NICs that are associated with the blade server adapter. **Ethernet Port Error Statistics**

Displays the error statistics of the NIC.

vNIC Statistics

Displays details about the number of dropped packets and errors that occurred while receiving or sending data through the NIC and vNIC.

Ethernet Port Communication Statistics (Rx)

Displays the communication statistics of the packets that are received at the NIC.

Ethernet Port Communication Statistics (Tx)

Displays the communication statistics of the packets that are sent by the NIC.

Ethernet Port Packets Statistics (Rx)

Displays the statistics of the packets that are received at the NIC.

Ethernet Port Packets Statistics (Tx)

Displays the statistics of the packets that are sent by the NIC.

Blade Servers workspace

This workspace provides the health and operational status of all the blade servers.

This workspace contains the following view:

Blade Servers Health Summary

Displays health and operational status of all the blade servers.

Chassis Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **Chassis workspace**

This workspace provides the status information about health, slot utilization, and active fans for all the chassis.

This workspace contains the following views:

Chassis Health Summary

Displays overall health, operability status, and percentage of slot utilization and active fans for all the chassis.

Chassis Slot Utilization

Displays the chassis slot utilization.

Chassis Fan Active Status

Displays the status information of all the chassis fans.

Chassis Backplane Port Network Details workspace

This workspace provides various network statistics of the backplane port.

This workspace contains the following views:

I/O Module Backplane Port Health Summary - All Peers

Displays the overall health of the backplane ports that are associated with the I/O modules.

Backplane Port Network Usage (Bytes)

Displays information about the bytes that are sent and received by the backplane port.

Backplane Port Network Usage (Packets)

Displays information about the packets that are sent and received by the backplane port.

Backplane Port Error Statistics

Displays the error statistics of the backplane port.

Backplane Port Loss Statistics

Displays the loss statistics of the backplane port.

Backplane Port Pause Statistics

Displays the pause statistics of the backplane port.

Chassis Configuration workspace

This workspace provides details of the installed firmware, and the hardware configuration of various chassis components.

This workspace contains the following views:

Chassis Health Summary - All Peers

Displays the overall health of all the chassis.

Chassis Configuration Details

Displays the hardware configuration of the chassis.

I/O Module Configuration Details

Displays the hardware configuration of the chassis I/O modules.

Fan Module Configuration Details

Displays the hardware configuration of the chassis fan modules.

PSU Configuration Details

Displays the hardware configuration of the chassis PSUs.

Firmware Details

Displays details of the installed firmware for the chassis I/O modules.

Chassis Details workspace

This workspace provides details about the slot utilization and power statistics of the chassis.

This workspace contains the following views:

Chassis Health Summary - All Peers

Displays the overall health of all the chassis.

Chassis Slot Utilization Summary

Displays a summary of the chassis slot utilization.

Chassis Input and Output Power Statistics

Displays the chassis I/O power statistics.

Chassis Fan Module Details workspace

This workspace provides various statistics of the chassis fan modules and fans.

This workspace contains the following views:

Fan Module Health Summary - All Peers

Displays the overall health of the chassis fan modules.

Fan Module Temperature Statistics

Displays the temperature statistics of the chassis fan modules.

Fan Health Summary

Displays the health and operational status of the chassis fans.

Fan 1 Speed Statistics

Displays the speed statistics of fan 1.

Fan 2 Speed Statistics

Displays the speed statistics of fan 2.

Chassis Health workspace

This workspace provides a health summary of various chassis components.

This workspace contains the following views:

Chassis Health Summary - All Peers

Displays the overall health of the chassis.

Blade Servers Health Summary

Displays the health and operational status of the chassis blade servers.

I/O Module Health Summary

Displays the health and operational status of the chassis I/O modules.

PSU Health Summary

Displays the health and operational status of the chassis PSU.

Fan Module Health Summary

Displays the health and operational status of the chassis fan modules.

Chassis I/O Module Details workspace

This workspace provides a health summary of the backplane ports, and the temperature statistics of the I/O modules.

This workspace contains the following views:

I/O Module Health Summary - All Peers

Displays the overall health of the chassis I/O modules.

I/O Module Temperature Statistics

Displays the temperature statistics of the I/O modules.

I/O Module Backplane Port Health Summary

Displays the health and operational status of the backplane ports that are associated with the I/O modules.

Chassis PSU Details workspace

This workspace provides various statistics of the chassis PSU.

This workspace contains the following views:

PSU Health Summary - All Peers

Displays the overall health of the chassis PSUs.

PSU Current Statistics

Displays the current statistics of the chassis PSUs.

PSU Temperature Statistics

Displays the temperature statistics of the chassis PSUs.

PSU Power Statistics

Displays the power statistics of the chassis PSUs.

PSU Voltage Statistics

Displays the voltage statistics of the chassis PSUs.

Fabric Extender Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. Fabric Extender workspace

This workspace provides a health summary of various components of the fabric extender.

	This workspace contains the following views: Fabric Extender Health Summary Displays the overall health of all the fabric extenders. Fabric Extender Fan Active Status Displays the status information of all the fabric extender form
Fabric I	Extender Backplane Port Network Details workspace This workspace provides various network statistics of the backplane port.
	 This workspace contains the following views: I/O Module Backplane Port Health Summary - All Peers Displays the overall health of the backplane ports that are associated with the I/O modules. Backplane Port Network Usage (Bytes)
	Displays information about the bytes that are sent and received by the backplane port. Backplane Port Network Usage (Packets) Displays information about the packets that are sent and received by the backplane port.
	Backplane Port Error Statistics Displays the error statistics of the backplane port.
Fabric I	Backplane Port Loss Statistics Displays the loss statistics of the backplane port. Backplane Port Pause Statistics Displays the pause statistics of the backplane port. Extender Configuration workspace
	This workspace provides details of the installed firmware, and the hardware configuration of various fabric extender components.
	Fabric Extender Health Summary - All Peers Displays the overall health of the fabric extender. Fabric Extender Configuration Details Displays the hardware configuration of the fabric extender.
	 I/O Module Configuration Details Displays the hardware configuration of the fabric extender I/O modules. Fan Configuration Details Displays the hardware configuration of the fabric extender fans.
	PSU Configuration Details Displays the hardware configuration of the fabric extender PSUs. Firmware Details
Fabric I	Displays details of the installed firmware for the fabric extender and its subcomponents. Extender Details workspace This workspace provides details about the environment statistics of the fabric extender.
	This workspace contains the following views: Fabric Extender Health Summary - All Peers Displays the overall health of the fabric extender
Fabric I	Fabric Extender environment Statistics Displays the environment statistics of the fabric extender.
	This workspace provides statistics of the fabric extender fans.
	This workspace contains the following views: Fan Health Summary - All Peers Displays the overall health of the fabric extender fan.

Fan Speed Statistics

Displays the speed statistics of the fabric extender fan.

Fabric Extender Health workspace

This workspace provides a health summary of various fabric extender components.

This workspace contains the following views:

Fabric Extender Health Summary - All Peers

Displays the overall health of the fabric extender.

IO Module Health Summary

Displays the health and operational status of the fabric extender I/O modules.

PSU Health Summary

Displays the health and operational status of the fabric extender PSU.

Fan Health Summary

Displays the health and operational status of the fabric extender fans.

Fabric Extender I/O Module Details workspace

This workspace provides a health summary of the backplane and fabric ports, and the temperature statistics of the I/O modules.

This workspace contains the following views:

I/O Module Health Summary - All Peers

Displays the overall health of the fabric extender I/O modules.

I/O Module Temperature Statistics

Displays the temperature statistics of the I/O modules.

I/O Module Backplane Port Health Summary

Displays the health and operational status of the backplane ports that are associated with the I/O modules.

I/O Module Fabric Port Health Summary

Displays the health and operational status of the Fabric Ports those are associated with the I/O modules.

Fabric Extender PSU Details workspace

This workspace provides various statistics of the fabric extender PSUs.

This workspace contains the following views:

PSU Health Summary - All Peers

Displays the overall health of the fabric extender PSUs.

PSU Current Statistics

Displays the current statistics of the fabric extender PSUs.

PSU Power Statistics

Displays the power statistics of the fabric extender PSUs.

PSU Voltage Statistics

Displays the voltage statistics of the fabric extender PSUs.

Fabric Interconnects Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **Fabric Interconnect Configurations workspace**

This workspace provides details of the installed firmware and the hardware configuration of various fabric interconnect components.

This workspace contains the following views: Fabric Interconnect Health Summary - All Peers

Displays the overall health of the fabric interconnects.

Fabric Interconnect Configuration Details

Displays the hardware configuration of the fabric interconnect.

Fan Configuration Details

Displays the hardware configuration of the fabric interconnect fans.

Fixed and Expansion Module Configuration Details

Displays the hardware configuration of the fabric interconnect modules.

PSU Configuration Details

Displays the hardware configuration of the fabric interconnect PSUs.

Firmware Details

Displays details about the installed firmware for the fabric interconnect.

Fabric Interconnect Details workspace

This workspace provides graphical representation of load, memory utilization, port usage, and port summary for the fabric interconnect.

This workspace contains the following views:

Fabric Interconnect Health Summary - All Peers

Displays the overall health of all the fabric interconnects.

Fabric Interconnect Load Statistics

Displays the load statistics of the fabric interconnect.

Fabric Interconnect Memory Statistics

Displays the available memory, cached memory, and total memory in the fabric interconnect.

Fabric Interconnect Port Summary

Displays the configuration details of uplink Ethernet ports, FCoE storage ports, server ports, unconfigured Ethernet ports, and uplink FC ports that are available in the fabric interconnect.

Fabric Interconnect Port Usage

Displays information about the fabric interconnect ports that are used by all the chassis. **Fabric Interconnect Health workspace**

This workspace provides a health summary of various components of the fabric interconnect.

This workspace contains the following views:

Fabric Interconnect Health Summary - All Peers

Displays the overall health of all the fabric interconnects.

Fan Health Summary

Displays the health and operational status of the fabric interconnect fans.

Fixed and Expansion Module - LAN Ports Health Summary

Displays the health and operational status of the fabric interconnect LAN ports, which are in the fixed or expansion modules.

Fixed and Expansion Module - SAN Ports Health Summary

Displays the health and operational status of the fabric interconnect SAN ports, which are in the fixed or expansion modules.

Power Supply Unit (PSU) Health Summary

Displays the health and operational status of the fabric interconnect PSUs.

Fabric Interconnect Hist LAN Port Details workspace

This workspace provides a chart of the historical statistics of the port channel.

This workspace contains the following views:

LAN Port Network Usage (Bytes)

Displays the historical statistics of the bytes of the fabric interconnect port channel.

LAN Port Network Usage (packets)

Displays the historical statistics of the packets of the fabric interconnect port channel.

Fabric Interconnect Hist SAN Port Details workspace

This workspace provides a chart of the historical statistics of the SAN port channel.

This workspace contains the following views:

SAN Port Network Usage (Bytes)

Displays the historical statistics of the bytes of the fabric interconnect SAN port channel.

SAN Port Network Usage (packets)

Displays the historical statistics of the packets of the fabric interconnect SAN port channel.

Fabric Interconnect LAN Port Channel Current Statistics workspace

This workspace provides the aggregate of the current statistics of the port channel.

This workspace contains the following views:

Fabric Interconnect LAN Port Channel Aggregate Statistics

Displays the current statistics of the fabric interconnect port channel.

Fabric Interconnect LAN Port Channel Statistics

Displays the aggregate statistics of the fabric interconnect port channel.

Fabric Interconnect LAN Port Details workspace

This workspace provides a graphical representation of various statistics of the LAN port.

This workspace contains the following views:

LAN Ports Health Summary - All Peers

Displays the overall health of the LAN ports that are associated with the fabric interconnect.

LAN Port Network Usage (Bytes)

Displays details about the bytes that are sent and received through the LAN port.

LAN Port Network Usage (Packets)

Displays details about the packets that are sent and received through the LAN port. LAN Port Error Statistics

Displays the error statistics of the LAN port.

LAN Port Loss Statistics

Displays the loss statistics of the LAN port.

LAN Port Pause Statistics

Displays the pause statistics of the LAN port.

Fabric Interconnect LAN Port Historical Statistics workspace

This workspace provides historical statistics of the port channel.

This workspace contains the following view:

Fabric Interconnect LAN Port Historical Statistics

Displays the historical statistics of the fabric interconnect port channel.

Fabric Interconnect PSU Details workspace

This workspace provides a graphical representation of various statistics of the power supply unit (PSU).

This workspace contains the following views:

PSU Health Summary - All Peers

Displays the overall health of all the fabric interconnect PSUs.

PSU Current Statistics

Displays the current utilization of the PSU.

PSU Power Statistics

Displays the power utilization of the PSU.

PSU Voltage Statistics

Displays the voltage utilization of the PSU.

Fabric Interconnect SAN Port Channel Current Statistics workspace

This workspace provides the aggregate of the current statistics of the SAN port channels.

This workspace contains the following views:

Fabric Interconnect SAN Port Channel Aggregate Statistics

Displays the current statistics of the fabric interconnect SAN port channel.

Fabric Interconnect SAN Port Channel Statistics

Displays the aggregate statistics of the fabric interconnect SAN port channel.

Fabric Interconnect SAN Port Details workspace

This workspace provides a graphical representation of various statistics of the SAN port.

This workspace contains the following views:

SAN Ports Health Summary - All Peers

Displays the overall health of SAN ports that are associated with the fabric interconnect. SAN Port Network Usage (Bytes)

Displays details about the bytes that are sent and received through the SAN port.
SAN Port Network Usage (Packets)

Displays details about the packets that are sent and received through the SAN port. SAN Port Error Statistics

Displays the error statistics of the SAN port.

Fabric Interconnect SAN Port Historical Statistics workspace

This workspace provides historical statistics of the SAN port channel.

This workspace contains the following view:

Fabric Interconnect SAN Port Historical Statistics

Displays the historical statistics of the fabric interconnect SAN port channel.

Fabric Interconnects workspace

This wokspace provides the health and performance statistics of the fabric interconnect.

This workspace contains the following views:

Fabric Interconnect Health Summary

Displays health and management configuration details of the fabric interconnects.

Fabric Interconnect Load Statistics

Displays load on the fabric interconnects.

Fabric Interconnect Memory Statistics

Displays the available memory and cached memory in the fabric interconnects.

Fabric Interconnect Temperature Statistics

Displays information about the temperature of fan inlets, main boards, and PSUs of the fabric interconnects.

Traffic Monitoring Session Source Configurations (LAN) workspace

This workspace provides the health and configuration details of the traffic monitoring session for LAN.

This workspace contains the following views:

Traffic Monitoring Session Health Summary (LAN) - All Peers

Displays a health summary of the traffic monitoring session for LAN.

Server Port Configuration Details

Displays configuration details about the server port.

Uplink Ethernet Port Configuration Details

Displays configuration details about the uplink Ethernet port.

Port Channel Configuration Details

Displays configuration details about the port channel.

VLAN Configuration Details

Displays configuration details about the VLAN.

vNIC Configuration Details

Displays configuration details about the vNIC.

vHBA Configuration Details

Displays configuration details about the vHBA.

FCoE Storage Port Configuration Details

Displays configuration details about the FCoE storage port.

Appliance Port Configuration Details

Displays configuration details about the appliance port.

Traffic Monitoring Session Source Configurations (SAN) workspace

This workspace provides the configuration details of the traffic monitoring session for SAN.

This workspace contains the following views:

Traffic Monitoring Sessions Summary (SAN) - All Peers

Displays configuration details about the traffic monitoring session for SAN.

Uplink FC Port Configuration Details

Displays configuration details about the uplink FC port.

Port Channel Configuration Details

Displays configuration details about the port channel.

VSAN Configuration Details

Displays configuration details about the VSAN.

Traffic Monitoring Session Health Summary (SAN)

Displays a health summary of traffic monitoring session for SAN.

Faults Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **Faults workspace**

This workspace provides fault information that is associated with all components.

This workspace contains the following view:

Faults Detail

Displays fault information that is associated with all the components.

Faults, Events and Logs Configuration workspace

This workspace provides the configuration details of the faults, events and logs for components in the system.

This workspace contains the following views:

Fault Collection Policy Configuration Details

Displays configuration details about the fault collection policy.

TFTP Core File Exporter Configuration Details

Displays configuration details about the TFTP core file exporter.

Syslog Local Destination Configuration Details

Displays configuration details about the local syslog destination.

Syslog Remote Destination Configuration Details

Displays configuration details about the remote syslog destination.

Syslog Local Sources Configuration Details

Displays configuration details about the local syslog sources.

Performance Object Status Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **Performance Object Status workspace**

This workspace displays the overall health of the application.

This workspace contains the following view:

Data Collection Status

Displays the status of the collection of data from the application. Normally this will display NO ERROR indicating that the agent is collecting application data correctly. If some of the agent's other views are empty this view will help isolate the cause of the failure. CUSTOM objects will display the name of the attribute group. Each CUSTOM group may display error values specific to the data collection. These are documented in the User's Guide.

Rack Mount Servers Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **Rack Mount Servers workspace**

This workspace provides the health status of the rack-mount servers.

This workspace contains the following view:

Rack-Mount Servers Health Summary

Displays the health and operational status of the rack-mount servers.

Rack-Mount Server Adapter Health workspace

This workspace provides the health and configuration details of the network cards that are associated with the adapter.

This workspace contains the following views:

Adapter Health Summary - All peers

Displays a health summary of adapters that are associated with the rack-mount servers. **NIC Health Summary**

Displays the health and operational status of a network interface card (NIC) and its associated vNIC.

HBA Health Summary

Displays the health and operational status of a host bus adapter (HBA) and its associated virtual host bus adapter (vHBA).

DCE Interface Summary

Displays the configuration details of the data communications equipment (DCE) interfaces.

Rack-Mount Server Configurations workspace

This workspace provides details of the installed firmware and the hardware configuration of various rack-mount server components.

This workspace contains the following views:

Rack-Mount Server Health Summary - All Peers

Displays a health summary of all the rack-mount servers.

Rack-Mount Server Configuration Details

Displays the configuration details of the rack-mount server hardware.

Memory Unit Configuration Details

Displays the hardware configuration details of the rack-mount server memory units. **CPU Configuration Details**

Displays the hardware configuration details of the rack-mount server CPUs.

NIC Configuration Details

Displays the hardware configuration details of the rack-mount server NICs.

Disk Configuration Details

Displays the hardware configuration details of the rack-mount server disks.

PSU Configuration Details

Displays the hardware configuration details of the rack-mount server PSUs.

Fan Module Configuration Details

Displays the hardware configuration details of the rack-mount server fan modules. **Fan Configuration Details**

Displays the hardware configuration details of the rack-mount server fans. **Firmware Details**

Displays the firmware details of various rack-mount server components.

Rack-Mount Server CPU Details workspace

This workspace provides a graphical representation of the CPU statistics.

This workspace contains the following views:

CPU Health Summary - All Peers

Displays a health summary of all the rack-mount server CPUs.

CPU Current Statistics

Displays details about the CPU current.

CPU Temperature

Displays the temperature statistics of the CPU.

Rack-Mount Server DCE Interface Details workspace

This workspace provides communication statistics of the DCE interface.

This workspace contains the following views:

DCE Interface Summary - All Peers

Displays the distinguished names of all the DCE interfaces that are associated with the rack-mount server adapter.

Ethernet Port Error Statistics (Rx)

Displays the error statistics received by the Ethernet port.

Ethernet Port Communication Statistics (Rx)

Displays the communication statistics of packets that are received by the DCE interface. **Ethernet Port Communication Statistics (Tx)**

Displays the communication statistics of packets that are sent by the DCE interface.

Ethernet Port Packet Statistics (Rx)

Displays the statistics of packets that are received at the DCE interface.

Ethernet Port Packet Statistics (Tx)

Displays the statistics of packets that are sent by the DCE interface.

Rack-Mount Server Fan Module Details workspace

This workspace provides various statistics of the rack-mount server fan modules and fans.

This workspace contains the following views:

Fan Module Health Summary - All Peers

Displays the overall health of the rack-mount server fan modules.

Fan Module Temperature Statistics

Displays the temperature statistics of the rack-mount server fan modules.

Fan Health Summary

Displays the health and operational status of the rack-mount server fans.

Fan 1 Speed Statistics

Displays the speed statistics of fan 1.

Fan 2 Speed Statistics

Displays the speed statistics of fan 2.

Rack-Mount Server HBA Details workspace

This workspace provides various communication statistics of the HBA and vHBA.

This workspace contains the following views:

HBA Health Summary - All Peers

Displays a health summary of all HBAs that are associated with the rack-mount server adapter.

vNIC Statistics

Displays details about the number of dropped packets and errors that occurred while receiving or sending data through the HBA and vHBA.

Rack-Mount Server Health workspace

This workspace provides a health summary of various components of the rack-mount server.

This workspace contains the following views:

Rack-Mount Servers Health Summary - All Peers

Displays the overall health of all the rack- mount server.

Motherboard Health Summary

Displays the health and operational status of the rack-mount server motherboard.

Memory Array Unit Health Summary

Displays the health and operational status of rack-mount server memory array unit. **CPU Health Summary**

Displays the health and operational status of rack-mount server CPU.

Adapter Health Summary

Displays the health and operational status of the rack-mount server adapter. **Fan Module Health Summary**

Displays the health and operational status of rack-mount server fan.

PSU Health Summary

Displays the health and operational status of the rack-mount server PSU.

Rack-Mount Server Memory Array Unit Details workspace

This workspace provides a graphical representation for the memory array unit statistics.

This workspace contains the following views:

Memory Array Unit Health Summary - All peers

Displays the overall health of all the rack-mount server memory array units.

Memory Arrray Unit Current Statistics

Displays details about the current that is used by the rack-mount server memory array unit.

Memory Unit Temperature Statistics

Displays details about the temperature statistics of all the memory units, which are associated with the memory array units.

Rack-Mount Server Motherboard Details workspace

This workspace provides a graphical representation of various statistics of the rack-mount server motherboard.

This workspace contains the following views:

Motherboard Health Summary - All peers

Displays the overall health of all the rack-mount server motherboards.

Motherboard Power Statistics

Displays details about the power that is consumed by the rack-mount server motherboard.

Motherboard Current Statistics

Displays details about the current that is used by the rack-mount server motherboard.

Motherboard Voltage Statistics

Displays details about the voltage that is used by the rack-mount server motherboard.

Motherboard Temperature Statistics

Displays details about the temperature statistics of the rack-mount server motherboard.

Rack-Mount Server NIC Details workspace

This workspace provides various communication statistics of the NIC and vNIC.

This workspace contains the following views:

NIC Health Summary - All Peers

Displays a health summary of all NICs that are associated with the rack-mount server adapter.

Ethernet Port Error Statistics (Rx)

Displays the error statistics that are received at the NIC.

vNIC Statistics

Displays details about the vNIC statistics.

Ethernet Port Communication Statistics (Rx)

Displays the communication statistics of the packets that are received at the NIC.

Ethernet Port Communication Statistics (Tx)

Displays the communication statistics of the packets that are sent by the NIC.

Ethernet Port Packet Statistics (Rx)

Displays the statistics of the packets that are received at the NIC.

Ethernet Port Packet Statistics (Tx)

Displays the statistics of the packets that are sent by the NIC.

Rack-Mount Server PSU Details workspace

This workspace provides various statistics of the rack-mount server PSU.

This workspace contains the following views:

PSU Health Summary - All Peers

Displays the overall health of the rack-mount server PSUs.

PSU Current Statistics

Displays the current statistics of the rack-mount server PSUs.

PSU Power Statistics

Displays the power statistics of the rack-mount server PSUs.

PSU Temperature Statistics

Displays the temperature statistics of the rack-mount server PSUs.

PSU Voltage Statistics

Displays the voltage statistics of the rack-mount server PSUs.

Server and Identifier Pools Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **MAC Pool Configurations workspace**

This workspace provides the health and configuration details of the MAC pool.

This workspace contains the following views:

MAC Pool Health Summary - All Peers

Displays a health summary of all the MAC pools.

MAC Address Configuration Details

Displays configuration details about the MAC address.

MAC Configuration Details

Displays configuration details about the MAC.

SAN Pool Configurations workspace

This workspace provides the health and configuration details of the SAN pool.

This workspace contains the following views:

SAN Pool Health Summary - All Peers

Displays a health summary of all the SAN pools.

WWN Initiator Block Configuration Details

Displays configuration details about the WWN initiator block.

Initiator Configuration Details

Displays configuration details about the initiator.

Server and Identifier Pools workspace

This workspace provides information about health and configuration of server and identifier pools.

This workspace contains the following views:

Server Pool Details

Displays details about the health and configuration of the server pools.

UUID Suffix Pool Details

Displays details about the health and configuration of the UUID suffix pools.

MAC Pool Details

Displays details about the health and configuration of the MAC pools.

SAN WWNN Pool Details

Displays details about the health and configuration of the SAN WWNN pools.

SAN WWPN Pool Details

Displays details about the health and configuration of the SAN WWPN pools.

Server Pool Configurations workspace

This workspace provides the health and configuration details of the server pool.

This workspace contains the following views:

Server Pool Health Summary - All Peers

Displays a health summary of all the server pools.

Server Pool Configuration Details

Displays configuration details about the server pools.

UUID Suffix Pool Configurations workspace

This workspace provides the health and configuration details of the UUID suffix pool.

This workspace contains the following views:

UUID Suffix Pool Health Summary - All Peers

Displays a health summary of all the UUID suffix pools.

UUID Suffix Configuration Details

Displays configuration details about the UUID suffix.

UUID Block Configuration Details

Displays configuration details about the UUID block.

Service Profiles Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **BIOS Policy Advanced Configurations workspace**

This workspace provides configuration details about the basic input/output system (BIOS) policies. The BIOS policy is a policy that automates the configuration of BIOS settings for a server or a group of servers.

This workspace contains the following views:

BIOS Policy Configuration Summary - All Peers

Displays configuration details about the BIOS policies.

Processor Configuration Details

Displays configuration details about the BIOS policy for the processor.

Intel Directed IO Configuration Details

Displays configuration details about the BIOS policy for the Intel Virtualization Technology for Directed I/O (VT-d).

RAS Configuration Details

Displays configuration details about the BIOS policy for the reliability, availability, and serviceability (RAS).

Serial Port Configuration Details

Displays configuration details about the BIOS policy for the serial port.

USB Configuration Details

Displays configuration details about the BIOS policy for the Universal Serial Bus (USB). **PCI Configuration Details**

Displays configuration details about the BIOS policy for the Peripheral Component Interconnect(PCI).

BIOS Policy Configurations workspace

This workspace provides configuration details about the basic input/output system (BIOS) policies. The BIOS policy is a policy that automates the configuration of BIOS settings for a server or a group of servers.

This workspace contains the following views:

BIOS Policy Configuration Summary - All Peers

Displays configuration details about the BIOS policies.

Boot Options Configuration Details

Displays configuration details about the boot option of the BIOS policy.

Server Management Configuration Details

Displays configuration details about the server management of the BIOS policy.

Boot Policy Order workspace

This workspace provides configuration details about the boot order in a boot policy.

This workspace contains the following views:

Storage Boot Order Configuration Summary

Displays configuration details about the storage boot order.

LAN Boot Order Configuration Summary

Displays configuration details about the LAN boot order.

Virtual Media Boot Order Configuration Details

Displays configuration details about the virtual media boot order.

Boot Policy Configuration Summary - All Peers

Displays configuration details of all the boot policies.

iSCSI Boot Order Configuration Summary

Displays configuration details about the iSCSI boot order.

Boot Policy Order Configurations workspace

This workspace provides configuration details about the boot order in a boot policy.

This workspace contains the following view:

Boot Policy Order Configuration Details

Displays configuration details about the LAN boot, SAN boot and iSCSI boot.

IPMI Access Profile Policy Configurations workspace

This workspace provides configuration details about the Intelligent Platform Management Interface (IPMI) access profile policy and users that are associated with the IPMI profile. This policy allows you to determine whether the IPMI commands can be sent directly to the server by using an IP address.

This workspace contains the following views:

IPMI Access Profile Policy Configuration Summary - All Peers

Displays configuration details about the IPMI access profile policy.

IPMI User Configuration Details

Displays configuration details about the IPMI access profile policy user.

iSCSI Boot Parameter Configurations workspace

This workspace provides configuration details about the iSCSI boot parameter.

This workspace contains the following view	ains the following views:
--	---------------------------

iSCSI Boot Parameter Configuration Details

Displays configuration details about the iSCSI boot parameter.

iSCSI Static Target Interface Configuration Details

Displays configuration details about the iSCSI static target interface.

QoS Policy Configurations workspace

This workspace provides configuration details about the Quality of Service(QoS) policies.

This workspace contains the following view:

QoS Policy Configuration Details

Displays configuration details about the Quality of Service(QoS) policy.

Service Profile Associated Policy Configurations workspace

This workspace provides information of all associated policies with service profile.

This workspace contains the following views:

BIOS Policy Configuration Summary

Displays summary of all the basic input/output system (BIOS) policies.

Scrub Policy Configuration Details

Displays summary of all the scrub policies.

Serial Over LAN Policy Configuration Details

Displays summary of all the serial over LAN policies.

IPMI Access Profile Policy Configuration Summary

Displays summary of all the Intelligent Platform Management Interface (IPMI) access profile policies.

vNIC/vHBA Placement Policy Configuration Summary

Displays summary of all the vNIC/vHBA placement policies.

Boot Policy Configuration Summary

Displays summary of all the boot policies.

Threshold Policy Configuration Summary

Displays summary of all the threshold policies.

Service Profile Health Summary - All Peers

Displays a health summary of all the service profiles.

Service Profile Health workspace

This workspace provides a health summary of the service profile including vNIC and vHBA health summary.

This workspace contains the following views:

vNIC Health Summary

Displays the health summary of the vNIC.

vHBA Health Summary

Displays the health summary of the vHBA.

Service Profile Health Summary - All Peers

Displays the health summary of all the service profile.

iSCSI vNIC Configuration Summary

Displays the configuration summary of the iSCSI vNIC.

Service Profiles workspace

This workspace provides information about health and operational status of the service profiles.

This workspace contains the following view:

Service Profile Health Summary

Displays a health summary of all the service profiles.

Threshold Policy Definition Configurations workspace

This workspace provides configuration details about the threshold policy definition.

This workspace contains the following views:

Alarm Trigger Configuration Details (Above Normal Value)

Displays configuration details about the alarm trigger that is above the normal value.

Alarm Trigger Configuration Details (Below Normal Value)

Displays configuration details about the alarm trigger that is below the normal value. Threshold Policy Definition Configuration Summary - All Peers

Displays configuration details of all the threshold policy definitions.

Threshold Policy Definitions workspace

This workspace provides a summary of the threshold policy definition.

This workspace contains the following views:

Threshold Policy Definition Configuration Summary

Displays configuration details about the threshold policy definition.

Threshold Policy Configuration Summary - All Peers

Displays configuration details about of all the threshold policies.

vNIC/vHBA Placement Policy Configurations workspace

This workspace provides configuration details about the vNIC/vHBA placement policy. The vNIC/vHBA placement policies are used to assign vNICs or vHBAs to the physical adapters on a server.

This workspace contains the following views:

vNIC/vHBA Placement Policy Configuration Summary - All Peers

Displays configuration details about the vNIC/vHBA placement policy.

Virtual Host Interface Configuration Details

Displays configuration details of the virtual host interfaces in the vNIC/vHBA placement policy.

VMware Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **ESX Host Server Health workspace**

This workspace provides a health summary of the ESX host server and its components.

This workspace contains the following views:

ESX Host Server Health Summary - All Peers

Displays the overall health of all the ESX host servers.

Virtual Machine Health Summary

Displays the health and operational status of the virtual machines.

vNIC Health Summary

Displays the health and operational status of the vNICs.

Port Profile Configurations workspace

This workspace provides configuration details about the port profiles and its components.

This workspace contains the following views:

Port Profile Configurations - All Peers

Displays configuration details about the port profiles.

vNIC Interface Configuration Details

Displays configuration details about the vNIC interface.

Profile Client Configuration Details

Displays configuration details about the profile clients of the port profiles.

vCenter Configurations workspace

This workspace provides the health and configuration details of the VMware Virtual Center server(vCenter server) and its components.

This workspace contains the following views:

vCenter Health Summary - All Peers

Displays the overall health of the vCenter server.

vCenter Folder Configuration Summary

Displays configuration details about the vCenter folders that contains datacenter.

Datacenter Configuration Details

Displays configuration details about the vCenter datacenters.

Folder Configuration Details

Displays configuration details about the vCenter folders.

DVS Configuration Details

Displays configuration details about the distributed virtual switches (DVS).

vCenter Folder Configurations workspace

This workspace provides configuration details about the vCenter folder that contains datacenter and its components.

This workspace contains the following views:

vCenter Folder Configurations - All Peers

Displays configuration details about the vCenter folders that contains datacenter.

Datacenter Configuration Details

Displays configuration details about the vCenter datacenters.

Folder Configuration Details

Displays configuration details about the vCenter folders that contains distributed virtual switches (DVS).

DVS Configuration Details

Displays configuration details about the distributed virtual switches (DVS).

Virtual Machine Health workspace

This workspace provides a health summary of the virtual machine and its components.

This workspace contains the following views:

Virtual Machine Health Summary - All Peers

Displays the overall health and operational status of all the virtual machines.

vNIC Health Summary

Displays the health and operational status of the vNICs.

VMware workspace

This workspace provides a health summary of the VMware components.

This workspace contains the following views:

ESX Host Server Health Summary

Displays the overall health of all the ESX host servers.

vCenter Health Summary

Displays the overall health of all the vCenter servers.

Port Profile Configuration Summary

Displays a summary of all the port profiles.

vNIC Configurations workspace

This workspace provides a health and configuration details of the vNIC and its components.

This workspace contains the following views:

vNIC Health Summary - All Peers

Displays the overall health of the vNIC.

VIF Configuration Details

Displays configuration details about the virtual interface (VIF).

vLAN Configuration Details

Displays configuration details about the virtual local area network (VLAN).

Chapter 4. Attributes reference

Attributes are the application properties that are being measured and reported by the IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS.

About attributes

Attributes are organized into attribute groups. Attributes in an attribute group relate to a single object such as an application, or to a single kind of data such as status information.

Attributes in a group can be used in queries, query-based views, situations, policy workflows, take action definitions, and launch application definitions. Chart or table views and situations are two examples of how attributes in a group can be used:

• Chart or table views

Attributes are displayed in chart and table views. The chart and table views use queries to specify which attribute values to request from a monitoring agent. You use the Properties editor to apply filters and set styles to define the content and appearance of a view based on an existing query.

Situations

You use attributes to create situations that monitor the state of your operating system, database, or application. A situation describes a condition you want to test. When you start a situation, the values you assign to the situation attributes are compared with the values collected by the Cisco UCS agent and registers an *event* if the condition is met. You are alerted to events by indicator icons that are displayed in the Navigator.

Additional information about attributes

For more information about using attributes and attribute groups, see the *Tivoli Enterprise Portal User's Guide*.

For a list of the attribute groups, a list of the attributes in each attribute group, and descriptions of the attributes for this monitoring agent, see "Attribute groups for the monitoring agent" and "Attributes in each attribute group" on page 55.

Attribute groups for the monitoring agent

The Cisco UCS agent contains the following attribute groups. The table name depends on the maximum table name limits of the target database being used for the Tivoli Data Warehouse. If the maximum name is 30 characters, any warehouse table name longer than 30 characters is shortened to 30 characters.

- Attribute group name: Chassis Backplane LAN Error
 - Table name: KV6CHBKERS
 - Warehouse table name: KV6_CHASSIS_BACKPLANE_LAN_ERROR or KV6CHBKERS
- Attribute group name: Chassis Backplane LAN Loss
 - Table name: KV6CHBKLOS
 - Warehouse table name: KV6_CHASSIS_BACKPLANE_LAN_LOSS or KV6CHBKLOS
- Attribute group name: Chassis Backplane LAN Pause
 - Table name: KV6CHBKPSE
 - Warehouse table name: KV6_CHASSIS_BACKPLANE_LAN_PAUSE or KV6CHBKPSE
- Attribute group name: Chassis Backplane LAN Statistics
 - Table name: KV6BNTSTAT

- Warehouse table name: KV6_CHASSIS_BACKPLANE_LAN_STATISTICS or KV6BNTSTAT
- Attribute group name: Chassis Configuration Details
 - Table name: KV6CHACNFD
 - Warehouse table name: KV6_CHASSIS_CONFIGURATION_DETAILS or KV6CHACNFD
- Attribute group name: Chassis Fan Health Summary
 - Table name: KV6FANHELT
 - Warehouse table name: KV6_CHASSIS_FAN_HEALTH_SUMMARY or KV6FANHELT
- Attribute group name: Chassis Fan Module Configuration
 - Table name: KV6FANMDCF
 - Warehouse table name: KV6_CHASSIS_FAN_MODULE_CONFIGURATION or KV6FANMDCF
- Attribute group name: Chassis Fan Module Health
 - Table name: KV6CHFANHS
 - Warehouse table name: KV6_CHASSIS_FAN_MODULE_HEALTH or KV6CHFANHS
- Attribute group name: Chassis Fan Module Temperature
 - Table name: KV6FNMDLSM
 - Warehouse table name: KV6_CHASSIS_FAN_MODULE_TEMPERATURE or KV6FNMDLSM
- Attribute group name: Chassis Fan Statistics
 - Table name: KV6FANSTAT
 - Warehouse table name: KV6_CHASSIS_FAN_STATISTICS or KV6FANSTAT
- Attribute group name: Chassis Hardware Firmware
 - Table name: KV6CHHWFWD
 - Warehouse table name: KV6_CHASSIS_HARDWARE_FIRMWARE or KV6CHHWFWD
- Attribute group name: Chassis Health Summary
 - Table name: KV6CHASSD
 - Warehouse table name: KV6_CHASSIS_HEALTH_SUMMARY or KV6CHASSD
- Attribute group name: Chassis IO Backplane Port Health
 - Table name: KV6BCKPLNP
 - Warehouse table name: KV6_CHASSIS_IO_BACKPLANE_PORT_HEALTH or KV6BCKPLNP
- Attribute group name: Chassis IO Module Configuration
 - Table name: KV6CIOCNFD
 - Warehouse table name: KV6_CHASSIS_IO_MODULE_CONFIGURATION or KV6CIOCNFD
- Attribute group name: Chassis IO Module Health Summary
 - Table name: KV6CHIOHSM
 - Warehouse table name: KV6_CHASSIS_IO_MODULE_HEALTH_SUMMARY or KV6CHIOHSM
- Attribute group name: Chassis IO Module Temperature
 - Table name: KV6IOMDTEM
 - Warehouse table name: KV6_CHASSIS_IO_MODULE_TEMPERATURE or KV6IOMDTEM
- Attribute group name: Chassis Power Statistics
 - Table name: KV6CHPOWER
 - Warehouse table name: KV6_CHASSIS_POWER_STATISTICS or KV6CHPOWER
- Attribute group name: Chassis PSU Configuration
 - Table name: KV6CHPSUCO
 - Warehouse table name: KV6_CHASSIS_PSU_CONFIGURATION or KV6CHPSUCO
- Attribute group name: Chassis PSU Health Summary
 - Table name: KV6CHPSHSM

- Warehouse table name: KV6_CHASSIS_PSU_HEALTH_SUMMARY or KV6CHPSHSM
- Attribute group name: Chassis PSU Statistics
 - Table name: KV6PWSPUSM
 - Warehouse table name: KV6_CHASSIS_PSU_STATISTICS or KV6PWSPUSM
- Attribute group name: Chassis Slot Details
 - Table name: KV6CHSLDET
 - Warehouse table name: KV6_CHASSIS_SLOT_DETAILS or KV6CHSLDET
- Attribute group name: Chassis Slot Utilization Summary
 - Table name: KV6CHSLTSM
 - Warehouse table name: KV6_CHASSIS_SLOT_UTILIZATION_SUMMARY or KV6CHSLTSM
- Attribute group name: ChassisAndFabricExtender Health Summary
 - Table name: KV6CHSFEXH
 - Warehouse table name: KV6_CHASSISANDFABRICEXTENDER_HEALTH_SUMMARY or KV6CHSFEXH
- Attribute group name: Cisco UCS Topology
 - Table name: KV6TOPOCLS
 - Warehouse table name: KV6_CISCO_UCS_TOPOLOGY or KV6TOPOCLS
- Attribute group name: Faults
 - Table name: KV6FAULTS
 - Warehouse table name: KV6_FAULTS
- Attribute group name: FEX Backplane Port Config
 - Table name: KV6FEXBPCL
 - Warehouse table name: KV6_FEX_BACKPLANE_PORT_CONFIG or KV6FEXBPCL
- Attribute group name: FEX Backplane Port Error
 - Table name: KV6FXBKERS
 - Warehouse table name: KV6_FEX_BACKPLANE_PORT_ERROR or KV6FXBKERS
- Attribute group name: FEX Backplane Port Loss
 - Table name: KV6FXBKLOS
 - Warehouse table name: KV6_FEX_BACKPLANE_PORT_LOSS or KV6FXBKLOS
- Attribute group name: FEX Backplane Port Pause
 - Table name: KV6FXBKPSE
 - Warehouse table name: KV6_FEX_BACKPLANE_PORT_PAUSE or KV6FXBKPSE
- Attribute group name: FEX Backplane Statistics
 - Table name: KV6FEXBCKS
 - Warehouse table name: KV6_FEX_BACKPLANE_STATISTICS or KV6FEXBCKS
- Attribute group name: FEX Environment Statistics
 - Table name: KV6FEXENVR
 - Warehouse table name: KV6_FEX_ENVIRONMENT_STATISTICS or KV6FEXENVR
- Attribute group name: FEX Fabric Port Config
 - Table name: KV6FEXFPCF
 - Warehouse table name: KV6_FEX_FABRIC_PORT_CONFIG or KV6FEXFPCF
- Attribute group name: FEX Fan Configuration Details
 - Table name: KV6FFANCON
 - Warehouse table name: KV6_FEX_FAN_CONFIGURATION_DETAILS or KV6FFANCON
- Attribute group name: FEX Fan Health Summary

- Table name: KV6FEXFANH
- Warehouse table name: KV6_FEX_FAN_HEALTH_SUMMARY or KV6FEXFANH
- Attribute group name: FEX Fan Speed Statistics
 - Table name: KV6FANSPED
 - Warehouse table name: KV6_FEX_FAN_SPEED_STATISTICS or KV6FANSPED
- Attribute group name: FEX Firmware
 - Table name: KV6FEXFIRD
 - Warehouse table name: KV6_FEX_FIRMWARE or KV6FEXFIRD
- Attribute group name: FEX Health Summary
 - Table name: KV6FEXHELH
 - Warehouse table name: KV6_FEX_HEALTH_SUMMARY or KV6FEXHELH
- Attribute group name: FEX IO Backplane Port Health
 - Table name: KV6BCKPHSM
 - Warehouse table name: KV6_FEX_IO_BACKPLANE_PORT_HEALTH or KV6BCKPHSM
- Attribute group name: FEX IO Fabric Port Health
 - Table name: KV6FPHLTSM
 - Warehouse table name: KV6_FEX_IO_FABRIC_PORT_HEALTH or KV6FPHLTSM
- Attribute group name: FEX IO Module Configuration
 - Table name: KV6FIOCNFD
 - Warehouse table name: KV6_FEX_IO_MODULE_CONFIGURATION or KV6FIOCNFD
- Attribute group name: FEX IO Module Health Summary
 - Table name: KV6FIOHLTH
 - Warehouse table name: KV6_FEX_IO_MODULE_HEALTH_SUMMARY or KV6FIOHLTH
- Attribute group name: FEX IO Module Temperature
 - Table name: KV6FIOMDTE
 - Warehouse table name: KV6_FEX_IO_MODULE_TEMPERATURE or KV6FIOMDTE
- Attribute group name: FEX PSU Configuration Details
 - Table name: KV6FPSUCOF
 - Warehouse table name: KV6_FEX_PSU_CONFIGURATION_DETAILS or KV6FPSUCOF
- Attribute group name: FEX PSU Environment Statistics
 - Table name: KV6FPSUENV
 - Warehouse table name: KV6_FEX_PSU_ENVIRONMENT_STATISTICS or KV6FPSUENV
- Attribute group name: FEX PSU Health Summary
 - Table name: KV6FEXPSUH
 - Warehouse table name: KV6_FEX_PSU_HEALTH_SUMMARY or KV6FEXPSUH
- Attribute group name: FI Configuration Details
 - Table name: KV6CONFPRO
 - Warehouse table name: KV6_FI_CONFIGURATION_DETAILS or KV6CONFPRO
- Attribute group name: FI Fan Configuration Details
 - Table name: KV6FANCONF
 - Warehouse table name: KV6_FI_FAN_CONFIGURATION_DETAILS or KV6FANCONF
- Attribute group name: FI Fan Health Summary
 - Table name: KV6FNHELTH
 - Warehouse table name: KV6_FI_FAN_HEALTH_SUMMARY or KV6FNHELTH
- Attribute group name: FI Fixed Expansion Configuration

- Table name: KV6EXPMODL
- Warehouse table name: KV6_FI_FIXED_EXPANSION_CONFIGURATION or KV6EXPMODL
- Attribute group name: FI Fixed Expansion Port Health
 - Table name: KV6FIXPORT
 - Warehouse table name: KV6_FI_FIXED_EXPANSION_PORT_HEALTH or KV6FIXPORT
- Attribute group name: FI Hardware Firmware
 - Table name: KV6FIHWFWD
 - Warehouse table name: KV6_FI_HARDWARE_FIRMWARE or KV6FIHWFWD
- Attribute group name: FI Health Summary
 - Table name: KV6FIHESUM
 - Warehouse table name: KV6_FI_HEALTH_SUMMARY or KV6FIHESUM
- Attribute group name: FI LAN Error Statistics
 - Table name: KV6FILERRS
 - Warehouse table name: KV6_FI_LAN_ERROR_STATISTICS or KV6FILERRS
- Attribute group name: FI LAN Hist Statistics
 - Table name: KV6LNHISST
 - Warehouse table name: KV6_FI_LAN_HIST_STATISTICS or KV6LNHISST
- Attribute group name: FI LAN Loss Statistics
 - Table name: KV6FILLOSS
 - Warehouse table name: KV6_FI_LAN_LOSS_STATISTICS or KV6FILLOSS
- Attribute group name: FI LAN Pause Statistics
 - Table name: KV6FILPAUS
 - Warehouse table name: KV6_FI_LAN_PAUSE_STATISTICS or KV6FILPAUS
- Attribute group name: FI LAN Port Channel Aggregate Statistics
 - Table name: KV6LANPCAG
 - Warehouse table name: KV6_FI_LAN_PORT_CHANNEL_AGGREGATE_STATISTICS or KV6LANPCAG
- Attribute group name: FI LAN Port Channel Statistics
 - Table name: KV6LANPCST
 - Warehouse table name: KV6_FI_LAN_PORT_CHANNEL_STATISTICS or KV6LANPCST
- Attribute group name: FI LAN Statistics
 - Table name: KV6LANSTAT
 - Warehouse table name: KV6_FI_LAN_STATISTICS or KV6LANSTAT
- Attribute group name: FI Port Summary
 - Table name: KV6FABPORT
 - Warehouse table name: KV6_FI_PORT_SUMMARY or KV6FABPORT
- Attribute group name: FI Port Usage
 - Table name: KV6FIPORTU
 - Warehouse table name: KV6_FI_PORT_USAGE or KV6FIPORTU
- Attribute group name: FI PSU Configuration Details
 - Table name: KV6PSUCONF
 - Warehouse table name: KV6_FI_PSU_CONFIGURATION_DETAILS or KV6PSUCONF
- Attribute group name: FI PSU Health Summary
 - Table name: KV6PSUHLTH
 - Warehouse table name: KV6_FI_PSU_HEALTH_SUMMARY or KV6PSUHLTH

- Attribute group name: FI PSU Statistics
 - Table name: KV6PSUSTAT
 - Warehouse table name: KV6_FI_PSU_STATISTICS or KV6PSUSTAT
- Attribute group name: FI SAN Error Statistics
 - Table name: KV6SANEROR
 - Warehouse table name: KV6_FI_SAN_ERROR_STATISTICS or KV6SANEROR
- Attribute group name: FI SAN Hist Statistics
 - Table name: KV6SNHISST
 - Warehouse table name: KV6_FI_SAN_HIST_STATISTICS or KV6SNHISST
- Attribute group name: FI SAN Port Channel Aggregate Statistics
 - Table name: KV6SANPCAG
 - Warehouse table name: KV6_FI_SAN_PORT_CHANNEL_AGGREGATE_STATISTICS or KV6SANPCAG
- Attribute group name: FI SAN Port Channel Statistics
 - Table name: KV6SANPCST
 - Warehouse table name: KV6_FI_SAN_PORT_CHANNEL_STATISTICS or KV6SANPCST
- Attribute group name: FI SAN Statistics
 - Table name: KV6SANSTAT
 - Warehouse table name: KV6_FI_SAN_STATISTICS or KV6SANSTAT
- Attribute group name: FI System Statistics
 - Table name: KV6FSYSTEM
 - Warehouse table name: KV6_FI_SYSTEM_STATISTICS or KV6FSYSTEM
- Attribute group name: FI Temperature Statistics
 - Table name: KV6FITMPST
 - Warehouse table name: KV6_FI_TEMPERATURE_STATISTICS or KV6FITMPST
- Attribute group name: MAC Pool Details
 - Table name: KV6MACPOOL
 - Warehouse table name: KV6_MAC_POOL_DETAILS or KV6MACPOOL
- Attribute group name: Performance Object Status
 - Table name: KV6POBJST
 - Warehouse table name: KV6_PERFORMANCE_OBJECT_STATUS or KV6POBJST
- Attribute group name: Policy BIOS Advanced Configurations
 - Table name: KV6BIOSADV
 - Warehouse table name: KV6_POLICY_BIOS_ADVANCED_CONFIGURATIONS or KV6BIOSADV
- Attribute group name: Policy BIOS Configuration Summary
 - Table name: KV6BIOSSUM
 - Warehouse table name: KV6_POLICY_BIOS_CONFIGURATION_SUMMARY or KV6BIOSSUM
- Attribute group name: Policy BIOS Configurations
 - Table name: KV6BIOSDET
 - Warehouse table name: KV6_POLICY_BIOS_CONFIGURATIONS or KV6BIOSDET
- Attribute group name: Policy Boot Configuration Summary
 - Table name: KV6BOOTPCS
 - Warehouse table name: KV6_POLICY_BOOT_CONFIGURATION_SUMMARY or KV6BOOTPCS
- Attribute group name: Policy Boot Order Configuration Details
 - Table name: KV6ISCBPOC

- Warehouse table name: KV6_POLICY_BOOT_ORDER_CONFIGURATION_DETAILS or KV6ISCBPOC
- Attribute group name: Policy IPMI Access Profile Configuration Summary
 - Table name: KV6IPMIACS
 - Warehouse table name: KV6_POLICY_IPMI_ACCESS_PROFILE_CONFIGURATION_SUMMARY or KV6IPMIACS
- Attribute group name: Policy IPMI User Configuration Details
 - Table name: KV6IPMIUSR
 - Warehouse table name: KV6_POLICY_IPMI_USER_CONFIGURATION_DETAILS or KV6IPMIUSR
- Attribute group name: Policy iSCSI Boot Order Configuration Summary
 - Table name: KV6ISCICFS
 - Warehouse table name: KV6_POLICY_ISCSI_BOOT_ORDER_CONFIGURATION_SUMMARY or KV6ISCICFS
- Attribute group name: Policy iSCSI Static Target Interface Configuration Details
 - Table name: KV6ISCBSTC
 - Warehouse table name: KV6_POLICY_ISCSI_STATIC_TARGET_INTERFACE_CONFIGURATION_DETAILS or KV6ISCBSTC
- Attribute group name: Policy iSCSI vNIC Configuration Summary
 - Table name: KV6ISCVNCS
 - Warehouse table name: KV6_POLICY_ISCSI_VNIC_CONFIGURATION_SUMMARY or KV6ISCVNCS
- Attribute group name: Policy LAN Boot Order Configuration Summary
 - Table name: KV6LANBTOS
 - Warehouse table name: KV6_POLICY_LAN_BOOT_ORDER_CONFIGURATION_SUMMARY or KV6LANBTOS
- Attribute group name: Policy QoS Configuration Details
 - Table name: KV6QOSPOLC
 - Warehouse table name: KV6_POLICY_QOS_CONFIGURATION_DETAILS or KV6QOSPOLC
- Attribute group name: Policy Scrub Configuration Details
 - Table name: KV6SCRUBPO
 - Warehouse table name: KV6_POLICY_SCRUB_CONFIGURATION_DETAILS or KV6SCRUBPO
- Attribute group name: Policy Serial Over LAN Configuration Details
 - Table name: KV6SOLPOLC
 - Warehouse table name: KV6_POLICY_SERIAL_OVER_LAN_CONFIGURATION_DETAILS or KV6SOLPOLC
- Attribute group name: Policy Storage Boot Order Configuration Summary
 - Table name: KV6STRBTOS
 - Warehouse table name: KV6_POLICY_STORAGE_BOOT_ORDER_CONFIGURATION_SUMMARY or KV6STRBTOS
- Attribute group name: Policy Virtual Host Interface Configuration Details
 - Table name: KV6VHOSTIF
 - Warehouse table name: KV6_POLICY_VIRTUAL_HOST_INTERFACE_CONFIGURATION_DETAILS or KV6VHOSTIF
- Attribute group name: Policy Virtual Media Boot Order Configuration Details
 - Table name: KV6VMBOTOS
 - Warehouse table name: KV6_POLICY_VIRTUAL_MEDIA_BOOT_ORDER_CONFIGURATION_DETAILS or KV6VMBOTOS

- Attribute group name: Policy vNICvHBA Placement Configuration Summary
 - Table name: KV6PLACMNT
 - Warehouse table name: KV6_POLICY_VNICVHBA_PLACEMENT_CONFIGURATION_SUMMARY or KV6PLACMNT
- Attribute group name: Pool Initiator Configuration Details
 - Table name: KV6INITCNF
 - Warehouse table name: KV6_POOL_INITIATOR_CONFIGURATION_DETAILS or KV6INITCNF
- Attribute group name: Pool MAC Address Configuration Details
 - Table name: KV6MACADCF
 - Warehouse table name: KV6_POOL_MAC_ADDRESS_CONFIGURATION_DETAILS or KV6MACADCF
- Attribute group name: Pool MAC Configuration Details
 - Table name: KV6MACCNFD
 - Warehouse table name: KV6_POOL_MAC_CONFIGURATION_DETAILS or KV6MACCNFD
- Attribute group name: Pool Server Configuration Details
 - Table name: KV6SRPLCNF
 - Warehouse table name: KV6_POOL_SERVER_CONFIGURATION_DETAILS or KV6SRPLCNF
- Attribute group name: Pool UUID Block Configuration Details
 - Table name: KV6UUBKCNF
 - Warehouse table name: KV6_POOL_UUID_BLOCK_CONFIGURATION_DETAILS or KV6UUBKCNF
- Attribute group name: Pool UUID Suffix Configuration Details
 - Table name: KV6UUIDSFX
 - Warehouse table name: KV6_POOL_UUID_SUFFIX_CONFIGURATION_DETAILS or KV6UUIDSFX
- Attribute group name: Pool WWN Initiator Block Configuration Details
 - Table name: KV6WWNINBC
 - Warehouse table name: KV6_POOL_WWN_INITIATOR_BLOCK_CONFIGURATION_DETAILS or KV6WWNINBC
- Attribute group name: RM Server Adapter Configuration
 - Table name: KV6RMICDCN
 - Warehouse table name: KV6_RM_SERVER_ADAPTER_CONFIGURATION or KV6RMICDCN
- Attribute group name: RM Server Adapter Health Summary
 - Table name: KV6RMADPTR
 - Warehouse table name: KV6_RM_SERVER_ADAPTER_HEALTH_SUMMARY or KV6RMADPTR
- Attribute group name: RM Server BIOS Firmware
 - Table name: KV6BIOSUNT
 - Warehouse table name: KV6_RM_SERVER_BIOS_FIRMWARE or KV6BIOSUNT
- Attribute group name: RM Server Configuration Details
 - Table name: KV6RMCONFI
 - Warehouse table name: KV6_RM_SERVER_CONFIGURATION_DETAILS or KV6RMCONFI
- Attribute group name: RM Server CPU Configuration
 - Table name: KV6RMCPUCN
 - Warehouse table name: KV6_RM_SERVER_CPU_CONFIGURATION or KV6RMCPUCN
- Attribute group name: RM Server CPU Health Summary
 - Table name: KV6RCKMCPU
 - Warehouse table name: KV6_RM_SERVER_CPU_HEALTH_SUMMARY or KV6RCKMCPU

- Attribute group name: RM Server CPU Statistics
 - Table name: KV6RMCPUEN
 - Warehouse table name: KV6_RM_SERVER_CPU_STATISTICS or KV6RMCPUEN
- Attribute group name: RM Server DCE Interface Health
 - Table name: KV6RMDCEIN
 - Warehouse table name: KV6_RM_SERVER_DCE_INTERFACE_HEALTH or KV6RMDCEIN
- Attribute group name: RM Server Disk Configuration
 - Table name: KV6RMSDCFD
 - Warehouse table name: KV6_RM_SERVER_DISK_CONFIGURATION or KV6RMSDCFD
- Attribute group name: RM Server Disk Health Summary
 - Table name: KV6RMDSHLT
 - Warehouse table name: KV6_RM_SERVER_DISK_HEALTH_SUMMARY or KV6RMDSHLT
- Attribute group name: RM Server Ether Port Comm
 - Table name: KV6RMETPCM
 - Warehouse table name: KV6_RM_SERVER_ETHER_PORT_COMM or KV6RMETPCM
- Attribute group name: RM Server Ether Port Error
 - Table name: KV6RMETPER
 - Warehouse table name: KV6_RM_SERVER_ETHER_PORT_ERROR or KV6RMETPER
- Attribute group name: RM Server Ether Port Large
 - Table name: KV6RMETHLG
 - Warehouse table name: KV6_RM_SERVER_ETHER_PORT_LARGE or KV6RMETHLG
- Attribute group name: RM Server Ether Port Outsized
 - Table name: KV6RMETPOS
 - Warehouse table name: KV6_RM_SERVER_ETHER_PORT_OUTSIZED or KV6RMETPOS
- Attribute group name: RM Server Ether Port Packets
 - Table name: KV6RMETPPS
 - Warehouse table name: KV6_RM_SERVER_ETHER_PORT_PACKETS or KV6RMETPPS
- Attribute group name: RM Server Ether Port Small
 - Table name: KV6RMETPSM
 - Warehouse table name: KV6_RM_SERVER_ETHER_PORT_SMALL or KV6RMETPSM
- Attribute group name: RM Server Fan Configuration
 - Table name: KV6RMFANCF
 - Warehouse table name: KV6_RM_SERVER_FAN_CONFIGURATION or KV6RMFANCF
- Attribute group name: RM Server Fan Health Summary
 - Table name: KV6RMFANHL
 - Warehouse table name: KV6_RM_SERVER_FAN_HEALTH_SUMMARY or KV6RMFANHL
- Attribute group name: RM Server Fan Module Details
 - Table name: KV6RMFMCNF
 - Warehouse table name: ${\rm KV6_RM_SERVER_FAN_MODULE_DETAILS}$ or ${\rm KV6RMFMCNF}$
- Attribute group name: RM Server Fan Module Health
 - Table name: KV6RMFANMD
 - Warehouse table name: KV6_RM_SERVER_FAN_MODULE_HEALTH or KV6RMFANMD
- Attribute group name: RM Server Fan Module Temperature
 - Table name: KV6RMFANTM
 - Warehouse table name: KV6_RM_SERVER_FAN_MODULE_TEMPERATURE or KV6RMFANTM

- Attribute group name: RM Server Fan Statistics
 - Table name: KV6RMFANST
 - Warehouse table name: KV6_RM_SERVER_FAN_STATISTICS or KV6RMFANST
- Attribute group name: RM Server FC Port Statistics
 - Table name: KV6RMFCPRT
 - Warehouse table name: KV6_RM_SERVER_FC_PORT_STATISTICS or KV6RMFCPRT
- Attribute group name: RM Server Firmware
 - Table name: KV6RMHWFWD
 - Warehouse table name: KV6_RM_SERVER_FIRMWARE or KV6RMHWFWD
- Attribute group name: RM Server HBA Configuration
 - Table name: KV6RMHBACN
 - Warehouse table name: KV6_RM_SERVER_HBA_CONFIGURATION or KV6RMHBACN
- Attribute group name: RM Server HBA Health Summary
 - Table name: KV6RMHBSUM
 - Warehouse table name: KV6_RM_SERVER_HBA_HEALTH_SUMMARY or KV6RMHBSUM
- Attribute group name: RM Server Health Summary
 - Table name: KV6RACMONT
 - Warehouse table name: KV6_RM_SERVER_HEALTH_SUMMARY or KV6RACMONT
- Attribute group name: RM Server Memory Array Health
 - Table name: KV6MMARYUN
 - Warehouse table name: KV6_RM_SERVER_MEMORY_ARRAY_HEALTH or KV6MMARYUN
- Attribute group name: RM Server Memory Array Statistics
 - Table name: KV6RMAUICS
 - Warehouse table name: KV6_RM_SERVER_MEMORY_ARRAY_STATISTICS or KV6RMAUICS
- Attribute group name: RM Server Memory Array Unit
 - Table name: KV6RMMEMUN
 - Warehouse table name: KV6_RM_SERVER_MEMORY_ARRAY_UNIT or KV6RMMEMUN
- Attribute group name: RM Server Memory Unit Details
 - Table name: KV6RMMEMUD
 - Warehouse table name: KV6_RM_SERVER_MEMORY_UNIT_DETAILS or KV6RMMEMUD
- Attribute group name: RM Server Memory Unit Health
 - Table name: KV6MUNHLTH
 - Warehouse table name: KV6_RM_SERVER_MEMORY_UNIT_HEALTH or KV6MUNHLTH
- Attribute group name: RM Server Memory Unit Temp
 - Table name: KV6RMUNITE
 - Warehouse table name: KV6_RM_SERVER_MEMORY_UNIT_TEMP or KV6RMUNITE
- Attribute group name: RM Server Motherboard Details
 - Table name: KV6RMMTHRD
 - Warehouse table name: KV6_RM_SERVER_MOTHERBOARD_DETAILS or KV6RMMTHRD
- Attribute group name: RM Server Motherboard Health
 - Table name: KV6MTHRBRD
 - Warehouse table name: KV6_RM_SERVER_MOTHERBOARD_HEALTH or KV6MTHRBRD
- Attribute group name: RM Server Motherboard Power
 - Table name: KV6RMMOTHB
 - Warehouse table name: KV6_RM_SERVER_MOTHERBOARD_POWER or KV6RMMOTHB

- Attribute group name: RM Server Motherboard Temp
 - Table name: KV6RMMOHTE
 - Warehouse table name: KV6_RM_SERVER_MOTHERBOARD_TEMP or KV6RMMOHTE
- Attribute group name: RM Server NIC Configuration
 - Table name: KV6RMNICCN
 - Warehouse table name: KV6_RM_SERVER_NIC_CONFIGURATION or KV6RMNICCN
- Attribute group name: RM Server NIC Health Summary
 - Table name: KV6RCKMNIC
 - Warehouse table name: KV6_RM_SERVER_NIC_HEALTH_SUMMARY or KV6RCKMNIC
- Attribute group name: RM Server PSU Configuration
 - Table name: KV6RMPSUCN
 - Warehouse table name: KV6_RM_SERVER_PSU_CONFIGURATION or KV6RMPSUCN
- Attribute group name: RM Server PSU Health Summary
 - Table name: KV6RMPSUHL
 - Warehouse table name: KV6_RM_SERVER_PSU_HEALTH_SUMMARY or KV6RMPSUHL
- Attribute group name: RM Server PSU Statistics
 - Table name: KV6RMPSUST
 - Warehouse table name: KV6_RM_SERVER_PSU_STATISTICS or KV6RMPSUST
- Attribute group name: RM Server Storage Controller
 - Table name: KV6RMSTCON
 - Warehouse table name: KV6_RM_SERVER_STORAGE_CONTROLLER or KV6RMSTCON
- Attribute group name: RM Server Storage Disk
 - Table name: KV6RMDISKC
 - Warehouse table name: KV6_RM_SERVER_STORAGE_DISK or KV6RMDISKC
- Attribute group name: RM Server Storage Disk Health
 - Table name: KV6RMTDISK
 - Warehouse table name: KV6_RM_SERVER_STORAGE_DISK_HEALTH or KV6RMTDISK
- Attribute group name: RM Server Storage Health Summary
 - Table name: KV6RMSTOCO
 - Warehouse table name: KV6_RM_SERVER_STORAGE_HEALTH_SUMMARY or KV6RMSTOCO
- Attribute group name: RM Server vNIC Statistics
 - Table name: KV6RMVNICS
 - Warehouse table name: KV6_RM_SERVER_VNIC_STATISTICS or KV6RMVNICS
- Attribute group name: RM Storage Firmware
 - Table name: KV6RMSCFMD
 - Warehouse table name: KV6_RM_STORAGE_FIRMWARE or KV6RMSCFMD
- Attribute group name: SAN Pool Details
 - Table name: KV6SANPOOL
 - Warehouse table name: KV6_SAN_POOL_DETAILS or KV6SANPOOL
- Attribute group name: Server Adapter Configuration
 - Table name: KV6ICDCNFD
 - Warehouse table name: KV6_SERVER_ADAPTER_CONFIGURATION or KV6ICDCNFD
- Attribute group name: Server Adapter Health Summary
 - Table name: KV6INCHESM
 - Warehouse table name: KV6_SERVER_ADAPTER_HEALTH_SUMMARY or KV6INCHESM

- Attribute group name: Server Configuration Details
 - Table name: KV6BSCONFI
 - Warehouse table name: KV6_SERVER_CONFIGURATION_DETAILS or KV6BSCONFI
- Attribute group name: Server CPU Configuration Details
 - Table name: KV6BSCPUCN
 - Warehouse table name: KV6_SERVER_CPU_CONFIGURATION_DETAILS or KV6BSCPUCN
- Attribute group name: Server CPU Health Summary
 - Table name: KV6CPUHESM
 - Warehouse table name: KV6_SERVER_CPU_HEALTH_SUMMARY or KV6CPUHESM
- Attribute group name: Server CPU Statistics
 - Table name: KV6CPUENVS
 - Warehouse table name: KV6_SERVER_CPU_STATISTICS or KV6CPUENVS
- Attribute group name: Server DCE Interface Summary
 - Table name: KV6DCEHSUM
 - Warehouse table name: KV6_SERVER_DCE_INTERFACE_SUMMARY or KV6DCEHSUM
- Attribute group name: Server Disk Configuration
 - Table name: KV6BSDISKC
 - Warehouse table name: KV6_SERVER_DISK_CONFIGURATION or KV6BSDISKC
- Attribute group name: Server Disk Health Summary
 - Table name: KV6DSKHESM
 - Warehouse table name: KV6_SERVER_DISK_HEALTH_SUMMARY or KV6DSKHESM
- Attribute group name: Server Ether Port Communication
 - Table name: KV6BSETPCM
 - Warehouse table name: KV6_SERVER_ETHER_PORT_COMMUNICATION or KV6BSETPCM
- Attribute group name: Server Ether Port Error
 - Table name: KV6BSETPER
 - Warehouse table name: KV6_SERVER_ETHER_PORT_ERROR or KV6BSETPER
- Attribute group name: Server Ether Port Large
 - Table name: KV6BSETPLS
 - Warehouse table name: KV6_SERVER_ETHER_PORT_LARGE or KV6BSETPLS
- Attribute group name: Server Ether Port Outsized
 - Table name: KV6BSETPOS
 - Warehouse table name: KV6_SERVER_ETHER_PORT_OUTSIZED or KV6BSETPOS
- Attribute group name: Server Ether Port Packets
 - Table name: KV6BSETPPS
 - Warehouse table name: KV6_SERVER_ETHER_PORT_PACKETS or KV6BSETPPS
- Attribute group name: Server Ether Port Small
 - Table name: KV6BSETPSM
 - Warehouse table name: KV6_SERVER_ETHER_PORT_SMALL or KV6BSETPSM
- Attribute group name: Server FC Port Statistics
 - Table name: KV6FCPRTST
 - Warehouse table name: KV6_SERVER_FC_PORT_STATISTICS or KV6FCPRTST
- Attribute group name: Server Hardware Firmware
 - Table name: KV6BSHWFWD
 - Warehouse table name: KV6_SERVER_HARDWARE_FIRMWARE or KV6BSHWFWD

- Attribute group name: Server HBA Configuration Details
 - Table name: KV6HBACNFD
 - Warehouse table name: KV6_SERVER_HBA_CONFIGURATION_DETAILS or KV6HBACNFD
- Attribute group name: Server HBA Health Summary
 - Table name: KV6HBAHSUM
 - Warehouse table name: KV6_SERVER_HBA_HEALTH_SUMMARY or KV6HBAHSUM
- Attribute group name: Server Health Summary
 - Table name: KV6BLSHESM
 - Warehouse table name: KV6_SERVER_HEALTH_SUMMARY or KV6BLSHESM
- Attribute group name: Server Memory Array Statistics
 - Table name: KV6MEMAICS
 - Warehouse table name: KV6_SERVER_MEMORY_ARRAY_STATISTICS or KV6MEMAICS
- Attribute group name: Server Memory Array Unit Details
 - Table name: KV6BSMEMAR
 - Warehouse table name: KV6_SERVER_MEMORY_ARRAY_UNIT_DETAILS or KV6BSMEMAR
- Attribute group name: Server Memory Array Unit Health
 - Table name: KV6MEAHESM
 - Warehouse table name: KV6_SERVER_MEMORY_ARRAY_UNIT_HEALTH or KV6MEAHESM
- Attribute group name: Server Memory Unit Configuration
 - Table name: KV6BSMEMUN
 - Warehouse table name: KV6_SERVER_MEMORY_UNIT_CONFIGURATION or KV6BSMEMUN
- Attribute group name: Server Memory Unit Temperature
 - Table name: KV6MEMTMPS
 - Warehouse table name: KV6_SERVER_MEMORY_UNIT_TEMPERATURE or KV6MEMTMPS
- Attribute group name: Server Motherboard Configuration
 - Table name: KV6BSMTHRD
 - Warehouse table name: KV6_SERVER_MOTHERBOARD_CONFIGURATION or KV6BSMTHRD
- Attribute group name: Server Motherboard Health
 - Table name: KV6MOTHESM
 - Warehouse table name: KV6_SERVER_MOTHERBOARD_HEALTH or KV6MOTHESM
- Attribute group name: Server Motherboard Power
 - Table name: KV6MBPOWST
 - Warehouse table name: KV6_SERVER_MOTHERBOARD_POWER or KV6MBPOWST
- Attribute group name: Server Motherboard Temperature
 - Table name: KV6MBTEMST
 - Warehouse table name: KV6_SERVER_MOTHERBOARD_TEMPERATURE or KV6MBTEMST
- Attribute group name: Server NIC Configuration Details
 - Table name: KV6NICCNFD
 - Warehouse table name: KV6_SERVER_NIC_CONFIGURATION_DETAILS or KV6NICCNFD
- Attribute group name: Server NIC Health Summary
 - Table name: KV6NICHSUM
 - Warehouse table name: KV6_SERVER_NIC_HEALTH_SUMMARY or KV6NICHSUM
- Attribute group name: Server Pool Details
 - Table name: KV6SERPOLD
 - Warehouse table name: KV6_SERVER_POOL_DETAILS or KV6SERPOLD

- Attribute group name: Server Storage Controller
 - Table name: KV6BSSTCON
 - Warehouse table name: KV6_SERVER_STORAGE_CONTROLLER or KV6BSSTCON
- Attribute group name: Server Storage Controller Health
 - Table name: KV6STCHESM
 - Warehouse table name: KV6_SERVER_STORAGE_CONTROLLER_HEALTH or KV6STCHESM
- Attribute group name: Server vNIC Statistics
 - Table name: KV6VNICSTS
 - Warehouse table name: KV6_SERVER_VNIC_STATISTICS or KV6VNICSTS
- Attribute group name: Service Profile Health
 - Table name: KV6SERPRLH
 - Warehouse table name: KV6_SERVICE_PROFILE_HEALTH or KV6SERPRLH
- Attribute group name: Service Profiles vHBA Health Summary
 - Table name: KV6VHBAHLT
 - Warehouse table name: KV6_SERVICE_PROFILES_VHBA_HEALTH_SUMMARY or KV6VHBAHLT
- Attribute group name: Service Profiles vNIC Health Summary
 - Table name: KV6VNICHLT
 - Warehouse table name: KV6_SERVICE_PROFILES_VNIC_HEALTH_SUMMARY or KV6VNICHLT
- Attribute group name: Sys Mon Alarm Trigger Configuration Details
 - Table name: KV6ALRMTRG
 - Warehouse table name: KV6_SYS_MON_ALARM_TRIGGER_CONFIGURATION_DETAILS or KV6ALRMTRG
- Attribute group name: Sys Mon Appliance Port Configuration Details
 - Table name: KV6APPSPCD
 - Warehouse table name: KV6_SYS_MON_APPLIANCE_PORT_CONFIGURATION_DETAILS or KV6APPSPCD
- Attribute group name: Sys Mon Core File Exporter Configuration Details
 - Table name: KV6CRFEXCD
 - Warehouse table name: KV6_SYS_MON_CORE_FILE_EXPORTER_CONFIGURATION_DETAILS or KV6CRFEXCD
- Attribute group name: Sys Mon Fault Collection Policy Configuration Details
 - Table name: KV6FOLTPLC
 - Warehouse table name:
 - KV6_SYS_MON_FAULT_COLLECTION_POLICY_CONFIGURATION_DETAILS or KV6FOLTPLC
- Attribute group name: Sys Mon FCoE Storage Port Configuration Details
 - Table name: KV6FCSTGCD
 - Warehouse table name: KV6_SYS_MON_FCOE_STORAGE_PORT_CONFIGURATION_DETAILS or KV6FCSTGCD
- Attribute group name: Sys Mon Port Channel Configuration Details LAN
 - Table name: KV6LNPRTCH
 - Warehouse table name: KV6_SYS_MON_PORT_CHANNEL_CONFIGURATION_DETAILS_LAN or KV6LNPRTCH
- Attribute group name: Sys Mon Port Channel Configuration Details SAN
 - Table name: KV6SNPRTCH
 - Warehouse table name: KV6_SYS_MON_PORT_CHANNEL_CONFIGURATION_DETAILS_SAN or KV6SNPRTCH

- Attribute group name: Sys Mon Server Port Configuration Details
 - Table name: KV6SMSPCND
 - Warehouse table name: KV6_SYS_MON_SERVER_PORT_CONFIGURATION_DETAILS or KV6SMSPCND
- Attribute group name: Sys Mon Storage Port Configuration Details
 - Table name: KV6SANSTGP
 - Warehouse table name: KV6_SYS_MON_STORAGE_PORT_CONFIGURATION_DETAILS or KV6SANSTGP
- Attribute group name: Sys Mon Syslog Local Destination Configuration Details
 - Table name: KV6SLDCNFD
 - Warehouse table name: KV6_SYS_MON_SYSLOG_LOCAL_DESTINATION_CONFIGURATION_DETAILS or KV6SLDCNFD
- Attribute group name: Sys Mon Syslog Local Sources Configuration Details
 - Table name: KV6SLSCNFD
 - Warehouse table name: KV6_SYS_MON_SYSLOG_LOCAL_SOURCES_CONFIGURATION_DETAILS or KV6SLSCNFD
- Attribute group name: Sys Mon Syslog Remote Destination Configuration Details
 - Table name: KV6SRDCNFD
 - Warehouse table name: KV6_SYS_MON_SYSLOG_REMOTE_DESTINATION_CONFIGURATION_DETAILS or KV6SRDCNFD
- Attribute group name: Sys Mon Threshold Policy Configuration Summary
 - Table name: KV6THRPOLC
 - Warehouse table name: KV6_SYS_MON_THRESHOLD_POLICY_CONFIGURATION_SUMMARY or KV6THRPOLC
- Attribute group name: Sys Mon Threshold Policy Definition Configuration Summary
 - Table name: KV6THRPOLD
 - Warehouse table name: KV6_SYS_MON_THRESHOLD_POLICY_DEFINITION_CONFIGURATION_SUMMARY or KV6THRPOLD
- Attribute group name: Sys Mon Traffic Monitoring Session Health Summary LAN
 - Table name: KV6TRMNLHS
 - Warehouse table name: KV6_SYS_MON_TRAFFIC_MONITORING_SESSION_HEALTH_SUMMARY_LAN or KV6TRMNLHS
- Attribute group name: Sys Mon Traffic Monitoring Session Health Summary SAN
 - Table name: KV6TFMNSHS
 - Warehouse table name: KV6_SYS_MON_TRAFFIC_MONITORING_SESSION_HEALTH_SUMMARY_SAN or KV6TFMNSHS
- Attribute group name: Sys Mon Uplink Ethernet Port Configuration Details
 - Table name: KV6UEPLPCD
 - Warehouse table name: KV6_SYS_MON_UPLINK_ETHERNET_PORT_CONFIGURATION_DETAILS or KV6UEPLPCD
- Attribute group name: Sys Mon Uplink FC Port Configuration Details
 - Table name: KV6UEPSPCD
 - Warehouse table name: KV6_SYS_MON_UPLINK_FC_PORT_CONFIGURATION_DETAILS or KV6UEPSPCD
- Attribute group name: Sys Mon vHBA Configuration Details

- Table name: KV6LVHBCND
- Warehouse table name: KV6_SYS_MON_VHBA_CONFIGURATION_DETAILS or KV6LVHBCND
- Attribute group name: Sys Mon VLAN Configuration Details
 - Table name: KV6VLANCFD
 - Warehouse table name: KV6_SYS_MON_VLAN_CONFIGURATION_DETAILS or KV6VLANCFD
- Attribute group name: Sys Mon vNIC Configuration Details
 - Table name: KV6NCSRPCH
 - Warehouse table name: KV6_SYS_MON_VNIC_CONFIGURATION_DETAILS or KV6NCSRPCH
- Attribute group name: Sys Mon VSAN Configuration Details
 - Table name: KV6VSANCFD
 - Warehouse table name: KV6_SYS_MON_VSAN_CONFIGURATION_DETAILS or KV6VSANCFD
- Attribute group name: Thread Pool Status
 - Table name: KV6THPLST
 - Warehouse table name: KV6_THREAD_POOL_STATUS or KV6THPLST
- Attribute group name: UCS Servers Health Summary
 - Table name: KV6UCSSRVR
 - Warehouse table name: KV6_UCS_SERVERS_HEALTH_SUMMARY or KV6UCSSRVR
- Attribute group name: UUID Suffix Pool Details
 - Table name: KV6UIDSUFX
 - Warehouse table name: KV6_UUID_SUFFIX_POOL_DETAILS or KV6UIDSUFX
- Attribute group name: VMware Datacenter Configuration Details
 - Table name: KV6DATACNT
 - Warehouse table name: KV6_VMWARE_DATACENTER_CONFIGURATION_DETAILS or KV6DATACNT
- Attribute group name: VMware DVS Configuration Details
 - Table name: KV6DVSSMRY
 - Warehouse table name: KV6_VMWARE_DVS_CONFIGURATION_DETAILS or KV6DVSSMRY
- Attribute group name: VMware ESX Host Server Health Summary
 - Table name: KV6ESXSUMR
 - Warehouse table name: KV6_VMWARE_ESX_HOST_SERVER_HEALTH_SUMMARY or KV6ESXSUMR
- Attribute group name: VMware Folder Configuration Details
 - Table name: KV6FOLDERT
 - Warehouse table name: KV6_VMWARE_FOLDER_CONFIGURATION_DETAILS or KV6FOLDERT
- Attribute group name: VMware Port Profile Configuration Summary
 - Table name: KV6PORTPRF
 - Warehouse table name: KV6_VMWARE_PORT_PROFILE_CONFIGURATION_SUMMARY or KV6PORTPRF
- Attribute group name: VMware Profile Client Configuration Details
 - Table name: KV6PROFLCL
 - Warehouse table name: KV6_VMWARE_PROFILE_CLIENT_CONFIGURATION_DETAILS or KV6PROFLCL
- Attribute group name: VMware vCenter Folder Configuration Summary
 - Table name: KV6VCFOLDR
 - Warehouse table name: KV6_VMWARE_VCENTER_FOLDER_CONFIGURATION_SUMMARY or KV6VCFOLDR

- Attribute group name: VMware vCenter Health Summary
 - Table name: KV6VCENSUM
 - Warehouse table name: KV6_VMWARE_VCENTER_HEALTH_SUMMARY or KV6VCENSUM
- Attribute group name: VMware VIF Configuration Details
 - Table name: KV6VIFSUMR
 - Warehouse table name: KV6_VMWARE_VIF_CONFIGURATION_DETAILS or KV6VIFSUMR
- Attribute group name: VMware Virtual Machine Health Summary
 - Table name: KV6VIRMCSM
 - Warehouse table name: KV6_VMWARE_VIRTUAL_MACHINE_HEALTH_SUMMARY or KV6VIRMCSM
- Attribute group name: VMware vLAN Configuration Details
 - Table name: KV6VLANSUM
 - Warehouse table name: KV6_VMWARE_VLAN_CONFIGURATION_DETAILS or KV6VLANSUM
- Attribute group name: VMware vNIC Health Summary
 - Table name: KV6VNICHLH
 - Warehouse table name: KV6_VMWARE_VNIC_HEALTH_SUMMARY or KV6VNICHLH
- Attribute group name: VMware vNIC Interface Configuration Details
 - Table name: KV6VNICINF
 - Warehouse table name: KV6_VMWARE_VNIC_INTERFACE_CONFIGURATION_DETAILS or KV6VNICINF

Attributes in each attribute group

Attributes in each Cisco UCS agent attribute group collect data that the agent uses for monitoring.

The descriptions of the attribute groups contain the following information:

Historical group

Whether the attribute group is a historical type that you can roll off to a data warehouse.

Attribute descriptions

Information such as description, type, source, and warehouse name, as applicable, for each attribute in the attribute group.

Some attributes are designated as key attributes. A *key attribute* is an attribute that is used in warehouse aggregation to identify rows of data that represent the same object.

The Source information sometimes uses C programming code syntax for if-then-else clauses to describe how an attribute is derived, for example:

 $(CPU_Pct < 0)$ || $(Memory_Pct < 0)$? 0 : 1

This example means that if the CPU_Pct attribute is less than 0 or if the Memory_Pct attribute is less than 0, then the attribute is set to 0. Otherwise, the attribute is set to 1.

Chassis Backplane LAN Error attribute group

This attribute group provides the error statistics of the backplane port in the chassis I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Backplane LAN Error attribute group:

Align (errors) attribute

Description

The delta number of the received frames that are not an integral number of octets in length.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ALIGN_DELTA or CHBKETRRAD

Backplane Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the backplane port.

Type

string

Warehouse name

BACKPLANE_PORT_DN or BCKPORT_DN

Backplane Port Error Stats DN attribute

Description

The distinguished name of the backplane port error statistics.

Type

string

Warehouse name

BACKPLANE_PORT_ERROR_STATS_DN or CHBKETRRDN

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name CHASSIS DN

Chassis ID attribute

Description

The ID of the chassis.

Type

string Warehouse name

CHASSIS_ID

Deffered Tx (errors) attribute

Description

The delta number of frames for which the first transmission attempt is delayed because the medium is busy.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DEFFERED_TRANSMITTED_DELTA or CHBKETRRDD

FCS (errors) attribute

Description

The delta number of received frames that did not pass the frame check sequence (FCS) check.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FCS_DELTA or CHBKETRRFD

Int Mac Rx (errors) attribute

Description

The delta number of frames for which reception failed due to an internal MAC sublayer transmit error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAC_RECEIVED_DELTA or CHBKETRRRD

Int Mac Tx (errors) attribute

Description

The delta number of frames for which transmission failed due to an internal MAC sublayer transmit error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAC_TRANSMITTED_DELTA or CHBKETRRTD

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis I/O module.

Type

string

Warehouse name

IO_MODULE_DN or IOMODUL_DN

IO Module ID attribute

Description

The ID of the chassis I/O module.

Туре

string

Warehouse name

IO_MODULE_ID or IOMODUL_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name NODE

Out Discard (errors) attribute

Description

The delta number

The delta number of frames that are discarded due to buffer overflows at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUT_DISCARD_DELTA or CHBKETRROD

Port ID attribute

Description

The ID of the backplane port.

Type string

Warehouse name

PORT_ID or BCKPORT_ID

Rcv (errors) attribute

Description

The delta number of MAC control frames for which reception at the port failed.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVE_DELTA or CHBKETRRCD

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Under Size (errors) attribute

Description

The delta number of undersized frames whose transmission through the port failed.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNDER_SIZE_DELTA or CHBKETRRUD

Xmit (errors) attribute

Description

The delta number of MAC control frames for which transmission through the port failed.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMIT_DELTA or CHBKETRRXD

Chassis Backplane LAN Loss attribute group

This attribute group provides the loss statistics of the backplane port in the chassis I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Backplane LAN Loss attribute group:

Backplane Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the backplane port.

Type

string

Warehouse name

BACKPLANE_PORT_DN or BCKPORT_DN

Backplane Port Loss Stats DN attribute

Description

The distinguished name of the backplane port loss statistics.

Type

string

Warehouse name

BACKPLANE_PORT_LOSS_STATS_DN or BPLOSSSTDN

Carrier Sense (errors) attribute

Description

The delta number of packets that are lost due to the carrier sense error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CARRIER_SENSE_DELTA or CHBKLSTCSD

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Туре

string Warehouse name

CHASSIS DN

Chassis ID attribute

Description

The ID of the chassis.

Туре

string Warehouse name

CHASSIS_ID

Excess Collision (errors) attribute

Description

The delta number of packets that are lost due to the excess collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

EXCESS_COLLISION_DELTA or CHBKLSTECD

Giants (errors) attribute

Description

The delta number of packets that are lost due to the giants error.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

GIANTS_DELTA or CHBKLST_GD

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis I/O module.

Type

string Warehouse name

IO_MODULE_DN or IOMODUL_DN

IO Module ID attribute

Description

The ID of the chassis I/O module.

Type

string

Warehouse name

IO_MODULE_ID or IOMODUL_ID

Late Collision (errors) attribute

Description

The delta number of packets that are lost due to the late collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LATE_COLLISION_DELTA or CHBKLSTLCD

Multi Collision (errors) attribute

Description

The delta number of packets that are lost due to the multi collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MULTI_COLLISION_DELTA or CHBKLSTMCD

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Port ID attribute

Description

The ID of the backplane port.

Туре

string Warehouse name

PORT ID or BCKPORT ID

Single Collision (errors) attribute

Description

The delta number of packets that are lost due to the single collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

```
Warehouse name
```

SINGLE_COLLISION_DELTA or CHBKLSTSCD

SQE Test (errors) attribute

Description

The delta number of packets that are lost due to the Signal Quality Error (SQE).

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SQE_TEST_DELTA or CHBKLSSQED

Symbol (errors) attribute

Description

The delta number of packets that are lost due to the symbol error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SYMBOL_DELTA or CHBKLSTSYD

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Chassis Backplane LAN Pause attribute group

This attribute group provides the pause statistics of the backplane port in the chassis I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Backplane LAN Pause attribute group:

Backplane Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the backplane port.

Туре

string

Warehouse name

BACKPLANE_PORT_DN or BCKPORT_DN

Backplane Port Pause Stats DN attribute

Description

The distinguished name of the backplane port pause statistics.

Type

string

Warehouse name

BACKPLANE_PORT_PAUSE_STATS_DN or BPPAUSSTDN

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name CHASSIS_DN **Chassis ID attribute** Description The ID of the chassis. Type string Warehouse name CHASSIS_ID IO Module DN attribute This attribute is a key attribute. Description The distinguished name of the chassis I/O module. Type string Warehouse name IO_MODULE_DN or IOMODUL_DN **IO Module ID attribute** Description The ID of the chassis I/O module. Type string Warehouse name IO MODULE ID or IOMODUL ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port ID attribute Description The ID of the backplane port. Type string Warehouse name PORT_ID or BCKPORT_ID **Recv Pause attribute** Description The delta number of pauses that occurred while receiving data at the port. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name RECIEVE_PAUSE_DELTA or CHBKPSDELT **Resets attribute** Description The delta number of resets that occurred while transmitting data through the port. Type integer (32-bit gauge) with enumerated values. The following values are defined:

Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RESETS_DELTA or CHRESTDELT
Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Xmit Pause attribute

Description

The delta number of pauses that occurred while transmitting data through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PAUSE_DELTA or CHBKTXPSDT

Chassis Backplane LAN Statistics attribute group

This attribute group provides the network statistics of the backplane port in the chassis I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Backplane LAN Statistics attribute group:

Backplane Ether Rx Stats DN attribute

Description

The distinguished name of the received backplane port Ethernet statistics.

Type

string

Warehouse name

BACKPLANE_ETHER_RX_STATS_DN or BKETHRCVDN

Backplane Ether Tx Stats DN attribute

Description

The distinguished name of the transmitted backplane port Ethernet statistics.

Type

string

Warehouse name

BACKPLANE_ETHER_TX_STATS_DN or BKETHTRXDN

Backplane Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the backplane port.

Туре

string

Warehouse name

BACKPLANE_PORT_DN or BCKPORT_DN

Broadcast Packets Rx attribute

Description

The delta number of broadcast packets that are received by the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BROADCAST_PACKETS_DELTA or RCBRDPKTDL

Broadcast Packets Tx attribute

Description

The delta number of broadcast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BROADCAST_PACKETS_DELTA or TXBRDPKTDL

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name CHASSIS DN

CI IA5515_DI

Chassis ID attribute

Description

The ID of the chassis.

Туре

string Warehouse name

CHASSIS ID

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis I/O module.

Type

string

Warehouse name IO_MODULE_DN or IOMODUL_DN

Indula ID attailante

IO Module ID attribute Description

The ID of the chassis I/O module.

Туре

string

Warehouse name

IO_MODULE_ID or IOMODUL_ID

Jumbo Packets Rx attribute

Description

The delta number of jumbo packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_JUMBO_PACKETS_DELTA or JUMBOPKTDL

Jumbo Packets Tx attribute

Description

The delta number of the jumbo packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_JUMBO_PACKETS_DELTA or JUMTXPKTDL

Multicast Packets Rx attribute

Description

The delta number of multicast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_MULTICAST_PACKETS_DELTA or RCMULPKTDL

Multicast Packets Tx attribute

Description

The delta number of multicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_MULTICAST_PACKETS_DELTA or TXMULPKTDL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Port ID attribute

Description

The ID of the backplane port.

Туре

string

Warehouse name

PORT_ID or BCKPORT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Bytes Rx attribute

Description

The delta number of total bytes that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA or TORCBYTDLT

Total Bytes Tx attribute

Description

The delta number of total bytes that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA or TOTXBYTDLT

Total Packets Rx attribute

Description

The delta number of total packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_PACKETS_DELTA or TORCPKTDLT

Total Packets Tx attribute

Description

The delta number of total packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_PACKETS_DELTA or TOTXPKTDLT

Unicast Packets Rx attribute

Description

The delta number of unicast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_UNICAST_PACKETS_DELTA or RCUNIPKTDL

Unicast Packets Tx attribute

Description

The delta number of unicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_UNIICAST_PACKETS_DELTA or TXUNIPKTDL

Chassis Configuration Details attribute group

This attribute group provides the configuration details of the chassis.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Configuration Details attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

string Warehouse name

CHASSIS_DN

Chassis ID attribute

Description The ID of the chassis.

Type

string

Warehouse name

CHASSIS_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the chassis.

Туре

string Warehouse name

MODEL or CHCNF_MODL

Revision attribute

Description

The current revision number of the chassis.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or CHREVISION

Serial Number (SN) attribute

Description

The serial number of the chassis.

Type

string

Warehouse name

SERIAL or CNF_SERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the chassis.

string Warehouse name

VENDOR or CNF_VENDOR

Chassis Fan Health Summary attribute group

This attribute group provides a health summary of the chassis fan.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Fan Health Summary attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Туре

string Warehouse name CHASSIS DN

Chassis ID attribute

Description

The ID of the chassis.

Туре

string

Warehouse name

CHASSIS_ID

FAN DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis fan.

Туре

string

Warehouse name

FAN_DN or CHASFAN_DN

FAN ID attribute

Description

The ID of the chassis fan.

Type

string

Warehouse name

FAN_ID or CHASFAN_ID

FAN Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis fan module.

Туре

string Warehouse name

FAN_MODULE_DN or FMODULE_DN

FAN Module ID attribute

Description

The ID of the chassis fan module.

Туре

string

Warehouse name

FAN_MODULE_ID or FMODULE_ID

Health attribute

Description The health status of the chassis fan. The yellow and red color highlighting indicates that a fault is generated in the chassis fan. Type string Warehouse name HEALTH or FAN_HEALTH Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the chassis fan. Type string Warehouse name **OPERABILITY** or **OPERABILTY OperState attribute** Description The operational status of the chassis fan. Type string Warehouse name **OPERSTATE or OPERSTATEE** Performance attribute Description The performance status of the chassis fan. Type string Warehouse name PERF or PERFORMANC Power attribute Description The power status of the chassis fan. Type string Warehouse name POWER or POWERATTRB **Presence attribute** Description The presence status of the chassis fan. Type string Warehouse name PRESENCE or PRESENCEAT Thermal attribute Description The thermal status of the chassis fan. Type string

Warehouse name

THERMAL or THERMALATR

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the chassis fan.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or FANFAULTAT

Voltage attribute

Description

The voltage status of the chassis fan.

Туре

string

Warehouse name

VOLTAGE or VOLTAGEATR

Chassis Fan Module Configuration attribute group

This attribute group provides the configuration details of the chassis fan module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Fan Module Configuration attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The ID of the chassis.

Type

string Warehouse name

CHASSIS_ID

Fan Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis fan module.

Type

string

Warehouse name FAN_MODULE_DN or FMODULE_DN

Fan Module ID attribute

Description

The ID of the chassis fan module.

Туре

string

Warehouse name

FAN_MODULE_ID or FMODULE_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the chassis fan module.

Type

string

Warehouse name

MODEL or MODELOFFAN

Revision attribute

Description

The current revision number of the chassis fan module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or REVISINFAN

Serial Number(SN) attribute

Description

The serial number of the chassis fan module.

Туре

string

Warehouse name

SERIAL or SERIALOFAN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Tray attribute

Description

The current tray number of the chassis fan module.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRAY or TRAYOFFANM

Vendor attribute

Description

The vendor name of the chassis fan module.

Type

string

Warehouse name

VENDOR or VENDOROFAN

Chassis Fan Module Health attribute group

This attribute group provides a health summary of the chassis fan module.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Fan Module Health attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Туре

string Warehouse name CHASSIS DN

Chassis ID attribute Description

The ID of the chassis.

Type

string

Warehouse name

CHASSIS_ID

Fan Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis fan module.

Type

string

Warehouse name

FAN_MODULE_DN or FMODULE_DN

Fan Module ID attribute

Description The ID of the chassis fan module.

Type

string

Warehouse name

FAN_MODULE_ID or FMODULE_ID

Health attribute

Description

The health status of the chassis fan module. The yellow and red color highlighting indicates that a fault is generated in the chassis fan module or its fans.

Туре

Warehouse name HEALTH or FAN HEALTH Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the chassis fan. Type string Warehouse name **OPERABILITY or OPRABILITY OperState attribute** Description The operational status of the chassis fan. Type string Warehouse name OPERSTATE or OPER_STATE **Performance attribute** Description The performance status of the chassis fan. Type string Warehouse name PERFORMANCE or PERFORMANC **Power attribute** Description The power status of the chassis fan. Type string Warehouse name POWER or CHFANPOWER **Presence attribute** Description The presence status of the chassis fan. Type string Warehouse name PRESENCE or FANPRESENC Thermal attribute Description The thermal status of the chassis fan. Type string Warehouse name THERMAL or FANTHERMAL Timestamp attribute Description The local time at the agent when the data was collected.

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the chassis fan module and its fans.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or FAN_FAULTS

Voltage attribute

Description

The voltage status of the chassis fan.

Туре

string Warehouse name

VOLTAGE or VOLTAGEFAN

Chassis Fan Module Temperature attribute group

This attribute group provides information about the temperature of the fan module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Fan Module Temperature attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name

CHASSIS_DN

```
Chassis ID attribute
```

Description

The ID of the chassis.

Туре

string Warehouse name

CHASSIS_ID

Exhaust Temperature (C) attribute

Description

The current exhaust temperature of the fan module.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

AMBIENT_TEMPERATURE or FANMODEXTE

Fan Module DN attribute This attribute is a key attribute.

Description The distinguished name of the fan module. Type string Warehouse name FAN_MODULE_DN or FMODULE_DN Fan Module ID attribute Description The ID of the fan module. Type string Warehouse name FAN_MODULE_ID or FMODULE_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Chassis Fan Statistics attribute group This attribute group provides information about the state of the chassis fans. Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Fan Statistics attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name

CHASSIS_DN

Chassis ID attribute Description

The current ID of the chassis.

Туре

string Warehouse name

CHASSIS_ID

Fan DN attribute This attribute is a key attribute.

Description The distinguished name of the chassis fan. Type string Warehouse name FAN_DN or CHASFAN_DN Fan ID attribute Description The current ID of the chassis fan. Type string Warehouse name FAN_ID or CHASFAN_ID Fan Module DN attribute This attribute is a key attribute. Description The distinguished name of the chassis fan module. Type string Warehouse name FAN_MODULE_DN or FMODULE_DN Fan Module ID attribute Description The current ID of the chassis fan module. Type string Warehouse name FAN_MODULE_ID or FMODULE_ID Fan Speed attribute Description The current speed (in rpm) of the chassis fan. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name FAN_SPEED or CFAN_SPEED Fan Stats DN attribute Description The distinguished name of the fan statistics. Type string Warehouse name FAN_STATS_DN or FANSTAT_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Timestamp attribute Description The local time at the agent when the data was collected.

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Chassis Hardware Firmware attribute group

This attribute group provides information about the chassis hardware and the installed firmware. Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Hardware Firmware attribute group:

Activate Status attribute

Description

The activation status of the firmware.

Type

string

Warehouse name

BOOT UNIT OPERSTATE or ACTIVESTAT

Backup Version attribute

Description

The firmware version that is in the memory but not used by the server.

Type

string Warehouse name

UPDATE VERSION or BACKUPVERN

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The ID of the chassis.

Type

string Warehouse name

CHASSIS_ID

Deployment attribute

Description

The deployment value that defines the type of firmware.

Type

string

Warehouse name

DEPLOYMENT

Management Controller DN attribute This attribute is a key attribute.

Description

The distinguished name of the management controller.

Type

string

Warehouse name MANAGEMENT CONTROLLER DN or MANAGMT DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Running Version attribute** Description The firmware version that is used by the server. Type string Warehouse name RUNNING_VERSION or RUNNINGVER Startup Version attribute Description The firmware version after the server is restarted. Type string Warehouse name BOOT_UNIT_VERSION or STARTUPVER Subject attribute Description The component that the firmware belongs to. Type string Warehouse name SUBJECT or SUBJECTATR **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Update Status attribute** Description The update status of the firmware version. Type string Warehouse name UPDATE_OPERSTATE or UPDATESTAT Chassis Health Summary attribute group

This attribute group provides a health summary and the state of the chassis. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Health Summary attribute group:

% Active Fans attribute

Description

The percentage of the chassis fans that are currently active.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ACTIVE_FANS_PERCENTAGE or ACTFANSPER

% Slot Utilization attribute

Description

The percentage of the current slot utilization of the chassis.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SLOT_UTILIZATION or CHPHYCAPUT

Active Fans attribute

Description

The number of fans that are currently active.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ACTIVE_FANS or ACTIVEFANS

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string

Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The current ID of the chassis.

Type

string

Warehouse name

CHASSIS_ID

Configuration State attribute

Description

The configuration status of the chassis.

Type

string

Warehouse name

CONFIGURATION_STATE or CONF_STATE

Faulty Fans attribute

Description

The number of fans that are currently not working.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FAULTY_FANS or FAULTYFANS

Health attribute

Description

The health status of the chassis. The yellow and red color highlighting indicates that a fault is generated in the chassis or its subcomponents.

Type

string

Warehouse name

HEALTH or CHASHEALTH

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Operabiltiy attribute

Description

The operability status of the chassis.

Type

string Warehouse name OPERABILTIY or CHASSOPERA

OperState attribute

Description

The operational status of the chassis.

Type

string Warehouse name

OPERSTATE or OPER_STATE

Power attribute

Description

The power status of the chassis.

Type

string

Warehouse name

POWER or CHASSPOWER

Presence attribute

Description

The presence status of the chassis.

Type

string

Warehouse name

PRESENCE or CHASSPRESE

Thermal attribute

Description The thermal status of the chassis.

Type

string

Warehouse name

THERMAL or CHASTHRMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Fans attribute

Description

The number of fans that are currently available in the chassis.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FANS

Total Faults attribute

Description

The total number of faults that are currently generated in the chassis and its subcomponents.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or CHASFAULTS

Total Free Slots attribute

Description

The number of slots that are currently not occupied.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FREE_SLOTS or CHFREESLOT

Total Occupied Slots attribute

Description

The number of slots that are currently occupied.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_OCCUPIED_SLOTS or OCCUPISLOT

Chassis IO Backplane Port Health attribute group

This attribute group provides a health summary of the backplane port in the chassis I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis IO Backplane Port Health attribute group:

Backplane Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis backplane port.

Type

string

Warehouse name

BACKPLANE_PORT_DN or BCKPORT_DN

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string

Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The ID of the chassis.

Type

string

Warehouse name

CHASSIS_ID

Health attribute

Description

The health status of the chassis backplane port. The yellow and red color highlighting indicates that a fault is generated in the chassis backplane port.

Type

string

Warehouse name

HEALTH or MODUL_HLTH

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis I/O module.

Type

string

Warehouse name

IO_MODULE_DN or IOMODUL_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

OperState attribute

Description

The operational status of the chassis backplane port.

Type

string Warehouse name

OPERSTATE or OPERSTATEE

Port ID attribute

Description

The ID of the chassis backplane port.

Type string

Warehouse name

PORT_ID or BCKPORT_ID

Slot ID attribute

Description

The ID of the chassis I/O module

Туре

string Warehouse name

IO_MODULE_ID or IOMODUL_ID

```
Timestamp attribute
```

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the chassis backplane port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or MODL_FAULT

Chassis IO Module Configuration attribute group

This attribute group provides the configuration details of the chassis I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis IO Module Configuration attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Туре

string Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The ID of the chassis.

Туре

string Warehouse name CHASSIS_ID

Fabric ID attribute

Description

The associated fabric interconnect ID of the chassis I/O module.

Type string

Warehouse name

SWITCHID or SWITCHIDAT

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis I/O module.

Type

string Warehouse name

IO_MODULE_DN or IOMODUL_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the chassis I/O module.

Type

string

Warehouse name

MODEL or CHIOM_MODL

Revision attribute

Description

The revision number of the chassis I/O module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or CIREVISION

Serial Number (SN) attribute

Description

The serial number of the chassis I/O module.

Туре

string

Warehouse name

SERIAL or CIO_SERIAL

Side attribute

Description

The side of the chassis I/O module.

Туре

string Warehouse name SIDE or CIOMODSIDE

Slot ID attribute

Description

The ID of the chassis I/O module

Type string Warehouse name IO_MODULE_ID or IOMODUL_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Vendor attribute Description The vendor name of the chassis I/O module. Type string Warehouse name VENDOR or CIO_VENDOR

Chassis IO Module Health Summary attribute group

This attribute group provides a health summary of the chassis I/O module. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Chassis IO Module Health Summary attribute group: Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN **Chassis ID attribute** Description The ID of the chassis. Type string Warehouse name CHASSIS_ID Health attribute Description The health status of the chassis I/O module. The yellow and red color highlighting indicates that a fault is generated in the chassis I/O module or its ports. Type string Warehouse name HEALTH or IOM HEALTH

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis I/O module.

Type string Warehouse name IO_MODULE_DN or IOMODUL_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the chassis I/O module. Type string Warehouse name OPERABILITY or OPRABILITY **OperState attribute** Description The operational status of the chassis I/O module. Type string Warehouse name OPERSTATE or OPER STATE **Presence** attribute Description The presence status of the chassis I/O module. Type string Warehouse name PRESENCE or IOPRESENCE Serial Number (SN) attribute Description The serial number of the chassis I/O module. Type string Warehouse name SERIAL or IOH_SERIAL Slot ID attribute Description The ID of the chassis I/O module. Type string Warehouse name IO_MODULE_ID or IOMODUL_ID Thermal attribute Description The thermal status of the chassis I/O module. Type string Warehouse name THERMAL or IOHTHERMAL Timestamp attribute

Description

The local time at the agent when the data was collected.

Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the chassis I/O module and its ports.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or IOM_FAULTS

Chassis IO Module Temperature attribute group

This attribute group provides the temperature statistics of the chassis I/O module.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis IO Module Temperature attribute group:

Ambient Temperature (C) attribute

Description

The current ambient temperature of the chassis I/O module.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

AMBIENT_TEMPERATURE or AMBIENTTMP

ASIC Temperature (C) attribute

Description

The current application-specific integrated circuit (ASIC) temperature of the chassis I/O module.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TEMPERATURE or TEMPATTRIB

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string

Warehouse name

CHASSIS_DN

Chassis ID attribute Description

The ID of the chassis.

Type string Warehouse name CHASSIS_ID IO Module DN attribute This attribute is a key attribute. Description The distinguished name of the chassis I/O module. Type string Warehouse name IO_MODULE_DN or IOMODUL_DN IO Module Stats DN attribute Description The distinguished name of the chassis I/O module statistics. Type string Warehouse name IO_MODULE_STATS_DN or IOMODST_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Slot ID attribute Description The ID of the chassis I/O module Type string Warehouse name IO_MODULE_ID or IOMODUL_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Chassis Power Statistics attribute group This attribute group provides information about the power statistics of the chassis. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions

The following list contains information about each attribute in the Chassis Power Statistics attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

string Warehouse name

CHASSIS_DN

Chassis ID attribute

Description The current ID of the chassis.

Type

string

Warehouse name

CHASSIS_ID

Input Power (W) attribute

Description

The current input power (in Watts) of the chassis.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_POWER or INPUTPOWER

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Output Power (W) attribute

Description

The current output power (in Watts) of the chassis.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTPUT_POWER or OUPUTPOWER

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string **Source**

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Consumed Power (W) attribute

Description

The total power (in Watts) that is consumed by all the chassis blade servers.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_CONSUMED_POWER or TOCONPOWER

Chassis PSU Configuration attribute group

This attribute group provides the configuration details of the chassis PSU. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Chassis PSU Configuration attribute group: Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN Chassis ID attribute Description The ID of the chassis. Type string Warehouse name CHASSIS ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **PID** attribute Description The model number of the chassis PSU. Type string Warehouse name MODEL or MODELOFPSU PSU DN attribute This attribute is a key attribute. Description The distinguished name of the chassis PSU. Type string Warehouse name PSU_DN or CHS_PSU_DN **PSU ID attribute** Description The ID of the chassis PSU. Type string Warehouse name PSU ID or CHSISPSUID **Revision attribute** Description The current revision number of the chassis PSU.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or REVISINPSU

Serial Number(SN) attribute

Description

The serial number of the chassis PSU.

Type

string Warehouse name

SERIAL or SERIALOPSU

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the chassis PSU.

Type

string

Warehouse name VENDOR or VENDOROPSU

Chassis PSU Health Summary attribute group

This attribute group provides a health summary of the chassis PSU.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis PSU Health Summary attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string

Warehouse name CHASSIS DN

Chassis ID attribute

Description

The ID of the chassis.

Type

string

Warehouse name

CHASSIS ID

Health attribute

Description

The health status of the chassis PSU. The yellow and red color highlighting indicates that a fault is generated in the chassis PSU.

Type string Warehouse name HEALTH or PSU_HEALTH Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the chassis PSU. Type string Warehouse name OPERABILITY or OPRABILITY **OperState attribute** Description The operational status of the chassis PSU. Type string Warehouse name OPERSTATE or OPER_STATE **Performance attribute** Description The performance status of the chassis PSU. Type string Warehouse name PERFORMANCE or PERFORMANC **Power attribute** Description The power status of the chassis PSU. Type string Warehouse name POWER or CHPSUPOWER **Presence** attribute Description The presence status of the chassis PSU. Type string Warehouse name PRESENCE or PSPRESENCE PSU DN attribute This attribute is a key attribute. Description The distinguished name of the chassis PSU. Type string Warehouse name PSU_DN or CHS_PSU_DN PSU ID attribute

Description

The ID of the chassis PSU.

Type string

Warehouse name

PSU_ID or CHS_PSU_ID

Thermal attribute

Description

The thermal status of the chassis PSU.

Туре

string Warehouse name

THERMAL or PSUTHERMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the chassis PSU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or PSU_FAULTS

Voltage attribute

Description

The voltage status of the chassis PSU.

Туре

string

Warehouse name

VOLTAGE or VOLTAGEPSU

Chassis PSU Statistics attribute group

This attribute group provides statistics of the chassis PSU.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis PSU Statistics attribute group:

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Туре

string Warehouse name CHASSIS_DN Chassis ID attribute

Description

The ID of the chassis.

Type string

Warehouse name

CHASSIS_ID

Input Voltage 210V attribute

Description

The current input voltage from a 210V PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_VOLTAGE_210V or INPUTVOTGE

Internal Temperature (C) attribute

Description

The current internal temperature of the PSU.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

AMBIENT_TEMPERATURE or INPUTTEMPE

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Output Current attribute

Description

The current value of the output current (in ampere) of the PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTPUT_CURRENT or OUTPUTCURT

Output Power attribute

Description

The current output power (in watt) of the PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTPUT_POWER or OUTPUTPOWR

Output Voltage 12V attribute

Description

The current output voltage from a 12V PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated

values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTPUT_VOLTAGE_12V or OUTPUTVOTG

Output Voltage 3V3 attribute

Description

The current output voltage from a 3V3 PSU.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTPUT_VOLTAGE_3V3 or OUTPTVOLTG

PSU DN attribute This attribute is a key attribute.

Description

The distinguished name of the PSU.

Туре

string

Warehouse name

PSU_DN or CHS_PSU_DN

PSU ID attribute

Description

The ID of the PSU.

Туре

string Warehouse name

PSU ID or PWRSUPUNID

PSU Stats DN attribute

Description

The distinguished name of the PSU statistics.

Туре

string

Warehouse name

PSU_STATS_DN or PSUSTATSDN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Chassis Slot Details attribute group

This attribute group provides summary information about slots that are occupied by the chassis blades. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Chassis Slot Details attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis blade.

Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Blade Server Model attribute Description The model number of the chassis blade. Type string Warehouse name BLADE_SERVER_MODEL or BLADESRMOD **Blade Server Type attribute** Description The type of the chassis blade. The valid values are Full Blade and Half Blade. Type string Warehouse name BLADE_SERVER_TYPE or BLADESRTYP Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN **Chassis ID attribute** Description The current ID of the chassis. Type string Warehouse name CHASSIS_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Slot ID attribute This attribute is a key attribute. Description The current slot ID of the chassis. Type string Warehouse name SLOT_ID or CHASLOT_ID Timestamp attribute

Description

The local time at the agent when the data was collected.

Type string

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

Chassis Slot Utilization Summary attribute group

```
This attribute group provides the slot utilization summary of the chassis.
Historical group
       This attribute group is eligible for use with Tivoli Data Warehouse.
Attribute descriptions
       The following list contains information about each attribute in the Chassis Slot Utilization
       Summary attribute group:
       Blade Server DN attribute
               Description
                      The distinguished name of the chassis blade.
               Type
                      string
              Warehouse name
                      BLADE_SERVER_DN or BLADESR_DN
       Blade Server ID attribute
              Description
                      The current blade ID.
              Type
                      string
              Warehouse name
                      BLADE_SERVER_ID or BLADESR_ID
       Blade Server Model attribute
               Description
                      The model number of the chassis blade.
              Type
                      string
              Warehouse name
                      BLADE_SERVER_MODEL or BLADESRMOD
       Blade Server Type attribute
              Description
                      The type of the chassis blade. The valid values are Full Blade and Half Blade.
               Type
                      string
               Warehouse name
                      BLADE_SERVER_TYPE or BLADESRTYP
       Chassis DN attribute This attribute is a key attribute.
               Description
                      The distinguished name of the chassis.
               Type
                      string
              Warehouse name
                      CHASSIS DN
       Chassis ID attribute
              Description
                      The current ID of the chassis.
```

Type string Warehouse name CHASSIS_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Slot ID attribute This attribute is a key attribute. Description The current slot ID of the chassis. Type string Warehouse name SLOT_ID or CHASLOT_ID Slot Status attribute Description The status of the chassis slot. The valid values are Free and Occupied. Type string Warehouse name SLOT_STATUS or CHSLT_STAS Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

ChassisAndFabricExtender Health Summary attribute group

This attribute group provides a health summary of the chassis and fabric extender. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the ChassisAndFabricExtender Health Summary attribute group:

% Active Fans attribute

Description

The percentage of the component fans that are currently active.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ACTIVE_FANS_PERCENTAGE or ACTFANSPER

% Slot Utilization attribute
The percentage of the current slot utilization of the component.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SLOT_UTILIZATION or CHPHYCAPUT

Active Fans attribute

Description

The number of fans that are currently active.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ACTIVE_FANS or ACTIVEFANS

Component DN attribute This attribute is a key attribute.

Description

The distinguished name of the component.

Туре

string Warehouse name

COMPONENT_DN or CHASIFEXDN

Component ID attribute

Description

The ID of the component.

Туре

string Warehouse name

COMPONENT_ID or CHASIFEXID

Configuration State attribute

Description

The configuration status of the component.

Туре

string

Warehouse name

CONFIGURATION_STATE or CHAFEXCFST

Faulty Fans attribute

Description

The number of fans that are currently not working.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FAULTY_FANS or FAULTYFANS

Health attribute

Description

The health status of the component. The yellow or red color highlighting indicates that a fault is generated in the chassis, fabric extender, or respective subcomponents of chassis and fabric extender.

Туре

string Warehouse name HEALTH or CHAFEXHLTH Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the component. Type string Warehouse name **OPERABILITY or OPERABILTY OperState attribute** Description The operational status of the component. Type string Warehouse name OPERSTATE or CHAFEXOPST **PID** attribute Description The model number of the component. Type string Warehouse name MODEL or CHAFEXMDEL **Power attribute** Description The power status of the component. Type string Warehouse name POWER or CHAFEXPWER Presence attribute Description The presence status of the component. Type string Warehouse name PRESENCE or PRESENCETR **Revision attribute** Description The revision number of the component. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or CHAFEXRVSN

Serial Number (SN) attribute

Description

The serial number of the component.

Type

string

Warehouse name

SERIAL or CHAFEXSRIL

Thermal attribute

Description

The thermal status of the component.

Type

string

Warehouse name

THERMAL or CHAFEXTRML

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Top System attribute

Description

The distinguished name of the top-level system.

Туре

string Warehouse name

TOPSYSTEM or TOPSYSTEMD

Total Fans attribute

Description

The number of fans that are currently available in the component.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FANS

Total Faults attribute

Description

The total number of faults that are currently generated in the component and its subcomponents.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or CHAFEXFTLS

Total Free Slots attribute

Description

The number of slots that are currently not occupied.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FREE_SLOTS or CHFREESLOT

Total Occupied Slots attribute

The number of slots that are currently occupied.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_OCCUPIED_SLOTS or OCCUPISLOT

Vendor attribute

Description

The vendor name of the component.

Type

string Warehouse name

VENDOR or CHAFEXVNDR

Voltage attribute

Description

The voltage status of the component.

Type

string

Warehouse name

VOLTAGE or CHAFEXVLTG

Cisco UCS Topology attribute group

This attribute group provides information about the hierarchy of the system topology that includes components and subcomponents of the Cisco UCS system.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Cisco UCS Topology attribute group:

Component DN attribute

Description

The distinguished name of the component.

Type

string Warehouse name

COMPONENT_DN or COMPONENDN

Component ID attribute This attribute is a key attribute.

Description

The ID of the component.

Type

string

Warehouse name

COMPONENT_ID or COMPONENID

The current status of the component.

Component Status attribute

Description The

Type

string

Warehouse name

COMPONENT_STATUS or COMPSTATUS

Component Type attribute

Description

The type of component.

Type string Warehouse name COMPONENT_TYPE or COMPONTYPE **Connect To Node attribute** Description The node that is the parent of the current node. Type string Warehouse name CONNECT_TO_NODE or CONNTOTYPE **Connection Type attribute** Description The connection type of the node. Type string Warehouse name CONNECTION_TYPE or CONNECTYPE Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Faults attribute group

This attribute group provides information about faults for the Cisco UCS components. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Faults attribute group: **Affected Object DN attribute**

Description

The distinguished name of the affected object.

Туре

string Warehouse name

AFFECTED_OBJECT_DN or AOBJECT_DN

Cause attribute

Description

The unique ID that is associated with the event that caused the fault.

Туре

Warehouse name CAUSE or FAULTCAUSE **Created Time attribute** Description The day and time when the fault was generated. Type string Warehouse name CREATED_TIME or CREATETIME **Description attribute** Description The details about the fault. Type string Warehouse name DESCRIPTION or DESCRIPTON **Explanation attribute** Description The explanation about the fault. Type string Warehouse name EXPLANATION or FLTEXPLAIN Fault Code attribute Description The code number of the fault. Type string Warehouse name FAULT CODE Fault DN attribute This attribute is a key attribute. Description The distinguished name of the fault. Type string Warehouse name FAULT_DN or CHFAULT_DN Fault ID attribute This attribute is a key attribute. Description The ID of the fault. Type string Warehouse name FAULT_ID or CHFAULT_ID **Highest Severity attribute** Description The highest severity of the fault. Type string Warehouse name HIGHEST SEVERITY or HIGHSEVERE Last Transaction Time attribute Description The day and time when the severity last changed. If the severity has not changed,

the original creation date is displayed.

Type

string

Warehouse name

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Occurrences attribute

Description

The current number of occurences of the fault event.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OCCURRENCES or FAULTOCCUR

Original Severity attribute

Description

The severity of the fault when the fault was first generated.

Type

string

Warehouse name

ORIGINAL_SEVERITY or ORIGSEVERE

Previous Severity attribute

Description

The previous severity of the fault, if the severity has changed.

Туре

string

Warehouse name

PREVIOUS_SEVERITY or PREVSEVERE

Recommended Action attribute

Description

The recommended user action after the fault is generated.

Type

string

Warehouse name

RECOMMENDED_ACTION or RECMACTION

Severity attribute

Description

The severity of the fault.

Туре

string

Warehouse name

SEVERITY or FASEVERITY

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Type attribute

Description

The type of the fault. **Type**

J F -

string Warehouse name TYPE or FAULT_TYPE

FEX Backplane Port Config attribute group

This attribute group provides the configuration details of the backplane port in the fabric extender I/O module.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Backplane Port Config attribute group:

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description

The ID of the fabric extender.

Type

string Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

Fabric ID attribute

Description

The ID of the associated fabric interconnect.

Туре

string

Warehouse name

SWITCHID or SWITCHIDAT

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender I/O module.

Туре

string

Warehouse name IO_MODULE_DN or IOMODUL_DN

IO Module ID attribute

Description

The ID of the fabric extender I/O module

Туре

string Warehouse name

IO_MODULE_ID or IOMODUL_ID

Network type attribute

Description

The type of network that is supported by the fabric extender backplane port.

Туре

string Warehouse name

TYPE or NETWORKTYP

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Peer attribute

Description

The path to the port on the fabric extender to which this fabric port is connected.

Type

string Warehouse name

PEERDN or PEER_DNATT

Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender backplane port.

Type

string

Warehouse name

PORT_DN or BCKPORT_DN

Port ID attribute

Description

The ID of the fabric extender backplane port.

Type

string

Warehouse name

PORT_ID or BCKPORT_ID

Port Type attribute

Description

The type of the fabric extender backplane port.

Type

string

Warehouse name

IFTYPE or PORT_TYPEE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Transport Type attribute

Description

The transport protocol of the fabric extender backplane port.

Туре

string Warehouse name

TRANSPORT or TRANSPORTP

FEX Backplane Port Error attribute group

This attribute group provides the error statistics of the backplane port in the fabric extender I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Backplane Port Error attribute group:

Align (errors) attribute

Description

The delta number of the received frames that are not an integral number of octets in length.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ALIGN_DELTA or FXBKETRRAD

Backplane Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the backplane port.

Type

string

Warehouse name

PORT_DN or BCKPORT_DN

Backplane Port Error Stats DN attribute

Description

The distinguished name of the backplane port error statistics.

Туре

string

Warehouse name

BACKPLANE_PORT_ERROR_STATS_DN or FXBKETRRDN

Deffered Tx (errors) attribute

Description

The delta number of frames for which the first transmission attempt is delayed because the medium is busy.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DEFFERED_TRANSMITTED_DELTA or FXBKETRRDD

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string Warehouse name FABRIC_EXTENDER_DN or FBREXTR_DN Fabric Extender ID attribute

The ID of the fabric extender.

Type string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

FCS (errors) attribute

Description

The delta number of received frames that did not pass the frame check sequence (FCS) check.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FCS_DELTA or FXBKETRRFD

Int Mac Rx (errors) attribute

Description

The delta number of frames for which reception failed due to an internal MAC sublayer transmit error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAC_RECEIVED_DELTA or FXBKETRRRD

Int Mac Tx (errors) attribute

Description

The delta number of frames for which transmission failed due to an internal MAC sublayer transmit error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAC_TRANSMITTED_DELTA or FXBKETRRTD

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender I/O module.

Type

string

Warehouse name

IO_MODULE_DN or IOMODUL_DN

IO Module ID attribute

Description

The ID of the fabric extender I/O module.

Туре

string

Warehouse name

IO_MODULE_ID or IOMODUL_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Out Discard (errors) attribute

Description

The delta number of frames that are discarded due to buffer overflows at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUT_DISCARD_DELTA or FXBKETRROD

Port ID attribute

Description

The ID of the backplane port.

Type

string

Warehouse name PORT_ID or BCKPORT_ID

Rcv (errors) attribute

Description

The delta number of MAC control frames for which reception at the port failed.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVE_DELTA or FXBKETRRCD

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Under Size (errors) attribute

Description

The delta number of undersized frames whose transmission through the port failed.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNDER_SIZE_DELTA or FXBKETRRUD

Xmit (errors) attribute

Description

The delta number of MAC control frames for which transmission through the port failed.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMIT_DELTA or FXBKETRRXD

FEX Backplane Port Loss attribute group

This attribute group provides the loss statistics of the backplane port in the fabric extender I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Backplane Port Loss attribute group:

Backplane Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the backplane port.

Туре

string

Warehouse name

PORT_DN or BCKPORT_DN

Backplane Port Loss Stats DN attribute

Description

The distinguished name of the backplane port loss statistics.

Туре

string

Warehouse name

BACKPLANE_PORT_LOSS_STATS_DN or BPLOSSSTDN

Carrier Sense (errors) attribute

Description

The delta number of packets that are lost due to the carrier sense error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CARRIER_SENSE_DELTA or FXBKLSTCSD

Excess Collision (errors) attribute

Description

The delta number of packets that are lost due to the excess collision error.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

EXCESS_COLLISION_DELTA or FXBKLSTECD

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

The ID of the fabric extender.

Type string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

Giants (errors) attribute

Description

The delta number of packets that are lost due to the giants error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

GIANTS_DELTA or FXBKLST_GD

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender I/O module.

Type

string

Warehouse name

IO_MODULE_DN or IOMODUL_DN

IO Module ID attribute

Description

The ID of the fabric extender I/O module.

Type

string Warehouse name

IO_MODULE_ID or IOMODUL_ID

Late Collision (errors) attribute

Description

The delta number of packets that are lost due to a late collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LATE_COLLISION_DELTA or FXBKLSTLCD

Multi Collision (errors) attribute

Description

The delta number of packets that are lost due to a multi-collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MULTI_COLLISION_DELTA or FXBKLSTMCD

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Port ID attribute

Description

The ID of the backplane port.

Туре

string Warehouse name

PORT_ID or BCKPORT_ID

Single Collision (errors) attribute

Description

The delta number of packets that are lost due to a single collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SINGLE_COLLISION_DELTA or FXBKLSTSCD

SQE Test (errors) attribute

Description

The delta number of packets that are lost due to a Signal Quality Error (SQE).

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SQE_TEST_DELTA or FXBKLSSQED

Symbol (errors) attribute

Description

The delta number of packets that are lost due to a symbol error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SYMBOL_DELTA or FXBKLSTSYD

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

FEX Backplane Port Pause attribute group

This attribute group provides the pause statistics of the backplane port in the fabric extender I/O module.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Backplane Port Pause attribute group:

Backplane Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the backplane port.

Type string Warehouse name PORT_DN or BCKPORT_DN Backplane Port Pause Stats DN attribute Description The distinguished name of the backplane port pause statistics. Type string Warehouse name BACKPLANE_PORT_PAUSE_STATS_DN or BPPAUSSTDN Fabric Extender DN attribute This attribute is a key attribute. Description The distinguished name of the fabric extender. Type string Warehouse name FABRIC_EXTENDER_DN or FBREXTR_DN Fabric Extender ID attribute Description The ID of the fabric extender. Type string Warehouse name FABRIC_EXTENDER_ID or FBREXTR_ID IO Module DN attribute This attribute is a key attribute. Description The distinguished name of the fabric extender I/O module. Type string Warehouse name IO_MODULE_DN or IOMODUL_DN **IO Module ID attribute** Description The ID of the fabric extender I/O module. Type string Warehouse name IO_MODULE_ID or IOMODUL_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port ID attribute Description The ID of the backplane port. Type string Warehouse name PORT ID or BCKPORT ID **Recv Pause attribute**

The delta number of pauses that occurred while receiving data at the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECIEVE_PAUSE_DELTA or FXBKPSDELT

Resets attribute

Description

The delta number of resets that occurred while transmitting data through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RESETS_DELTA or FXRESTDELT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Xmit Pause attribute

Description

The delta number of pauses that occurred while transmitting data through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PAUSE_DELTA or FXBKTXPSDT

FEX Backplane Statistics attribute group

This attribute group provides the network statistics of the backplane port in the fabric extender I/O module.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Backplane Statistics attribute group:

Broadcast Packets Rx attribute

Description

The delta number of broadcast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BROADCAST_PACKETS_DELTA or RCBRDPKTDL

Broadcast Packets Tx attribute

Description

The delta number of broadcast packets that are transmitted by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BROADCAST_PACKETS_DELTA or RCBRDPKTTX

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Туре

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description

The ID of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender I/O module.

Type

string

Warehouse name

IO_MODULE_DN or IOMODUL_DN

IO Module ID attribute

Description

The ID of the fabric extender I/O module.

Type

string

Warehouse name

IO_MODULE_ID or IOMODUL_ID

Jumbo Packets Rx attribute

Description

The delta number of jumbo packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_JUMBO_PACKETS_DELTA or JUMBOPKTDL

Jumbo Packets Tx attribute

Description

The delta number of jumbo packets that are transmitted by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_JUMBO_PACKETS_DELTA or JUMBOPKTTX Multicast Packets Rx attribute

The delta number of multicast packets that are received by the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_MULTICAST_PACKETS_DELTA or RCMULPKTDL

Multicast Packets Tx attribute

Description

The delta number of multicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_MULTICAST_PACKETS_DELTA or TXMULPKTDL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the backplane port.

Type

string Warehouse name

PORT_DN or BCKPORT_DN

Port ID attribute

Description

The ID of the backplane port.

Туре

string

Warehouse name

PORT_ID or BCKPORT_ID

Rx Stats DN attribute

Description

The distinguished name of the received statistics of the backplane port.

Туре

string Warehouse name

RX_STATS_DN or BRXSTATSDN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Bytes Rx attribute

Description

The delta number of total bytes that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA or TORCBYTDLT

Total Bytes Tx attribute

Description

The delta number of total bytes that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA or TOTXBYTDLT

Total Packets Rx attribute

Description

The delta number of total packets that are received by the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_PACKETS_DELTA or TORCPKTDLT

Total Packets Tx attribute

Description

The delta number of total packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_PACKETS_DELTA or TOTXPKTDLT

Tx Stats DN attribute

Description

The distinguished name of the transmitted statistics of the backplane port.

Type

string

Warehouse name

TX_STATS_DN or BKETHTRXDN

Unicast Packets Rx attribute

Description

The delta number of unicast packets that are received by the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_UNICAST_PACKETS_DELTA or RCUNIPKTDL

Unicast Packets Tx attribute

Description

The delta number of unicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_UNICAST_PACKETS_DELTA or TXUNIPKTDL

FEX Environment Statistics attribute group

This attribute group provides the environment statistics of the fabric extender.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Environment Statistics attribute group:

die1 attribute

Description

The current die1 temperature of the fabric extender.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DIE1 or DIE1_ATTRB

Environment Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender environment statistics.

Type

string

Warehouse name

ENVIRONMENT_STATS_DN or ENRNSTS_DN

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Туре

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description

The ID of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

inlet attribute

Description

The current inlet temperature of the fabric extender.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INLET or INLET_ATTR

inlet1 attribute

The current inlet1 temperature of the fabric extender.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INLET1 or INLET1_ATR

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

outlet1 attribute

Description

The current outlet1 temperature of the fabric extender.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTLET1 or OUTLET1_AT

outlet2 attribute

Description

The current outlet2 temperature of the fabric extender.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTLET2 or OUTLET2_AT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

FEX Fabric Port Config attribute group

This attribute group provides the configuration details of the fabric ports that are available in the fabric extender I/O module.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Fabric Port Config attribute group:

Fabric Extender DN attribute This attribute is a key attribute.

Description The distinguished name of the fabric extender. Type string Warehouse name FABRIC_EXTENDER_DN or FBREXTR_DN Fabric Extender ID attribute Description The ID of the fabric extender. Type string Warehouse name FABRIC_EXTENDER_ID or FBREXTR_ID Fabric ID attribute Description The ID of the associated fabric interconnect. Type string Warehouse name SWITCHID or SWITCHIDAT IO Module DN attribute This attribute is a key attribute. Description The distinguished name of the fabric extender I/O module. Type string Warehouse name IO_MODULE_DN or IOMODUL_DN **IO Module ID attribute** Description The ID of the fabric extender I/O module. Type string Warehouse name IO_MODULE_ID or IOMODUL_ID Network type attribute Description The type of network that is supported by the fabric port. Type string Warehouse name TYPE or NETWORKTYP Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Peer attribute Description The path to the port on the fabric extender to which this fabric port is connected. Type string

Warehouse name PEERDN or PEER DNATT Port DN attribute This attribute is a key attribute. Description The distinguished name of the fabric port. Type string Warehouse name PORT_DN or BCKPORT_DN Port ID attribute Description The ID of the fabric port. Type string Warehouse name PORT_ID or BCKPORT_ID Port Type attribute Description The type of the fabric port. Type string Warehouse name IFTYPE or PORT TYPEE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Transport Type attribute Description The transport protocol of the fabric port. Type string Warehouse name TRANSPORT or TRANSPORTP FEX Fan Configuration Details attribute group This attribute group provides the configuration details of the fabric extender fan. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the FEX Fan Configuration Details attribute group: Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Туре

string Warehouse name FABRIC_EXTENDER_DN or FBREXTR_DN Fabric Extender ID attribute

The ID of the fabric extender. **Type**

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

FAN DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender fan.

Туре

string Warehouse name

FAN_DN or FEXDFAN_DN

FAN ID attribute

Description

The ID of the fabric extender fan.

Туре

string

Warehouse name

FAN_ID or FEXDFAN_ID

Module attribute

Description

The current ID of the fabric extender fan module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MODULE or FAN_MODULE

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the fabric extender fan.

Туре

string

Warehouse name

MODEL or FFAN_MODEL

Revision attribute

Description

The current revision number of the fabric extender fan module.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or FNREVISION

Serial Number (SN) attribute

The serial number of the fabric extender fan.

Type string

Warehouse name

SERIAL or FAN SERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Tray attribute

Description

The current tray number of the fabric extender fan.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRAY or TRAYOFFANM

Vendor attribute

Description

The vendor name of the fabric extender fan.

Туре

string

Warehouse name

VENDOR or FAN_VENDOR

FEX Fan Health Summary attribute group

This attribute group provides a health summary of the fabric extender fan. **Historical group**

This attribu

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Fan Health Summary attribute group:

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string Warehouse name FABRIC_EXTENDER_DN or FBREXTR_DN Fabric Extender ID attribute Description The ID of the fabric extender. Type string Warehouse name FABRIC_EXTENDER_ID or FBREXTR_ID

FAN DN attribute This attribute is a key attribute.

Description The distinguished name of fabric extender fan. Type string Warehouse name FAN_DN or FEXDFAN_DN FAN ID attribute Description The current ID of the fabric extender fan. Type string Warehouse name FAN_ID or FEXDFAN_ID Health attribute Description The health status of the fabric extender fan. Type string Warehouse name HEALTH or FFANHEALTH Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the fabric extender fan. Type string Warehouse name OPERABILITY or OPRABILITY **OperState attribute** Description The operational status of the fabric extender fan. Type string Warehouse name OPERSTATE or OPER_STATE **Performance attribute** Description The performance status of the fabric extender fan. Type string Warehouse name PERFORMANCE or PERFORMNCE **Power attribute** Description The power status of the fabric extender fan. Type string

POWER or FAN_POOWER

Presence attribute

Description

The presence status of the fabric extender fan.

Туре

string Warehouse name

PRESENCE or PRESENCETR

Thermal attribute

Description

The thermal status of the fabric extender fan.

Type

string

Warehouse name

THERMAL or FANTHERMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Type

Description

The total number of faults that are currently generated in the fabric extender fan.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or FFANFAULTS

Voltage attribute

Description

The voltage status of the fabric extender fan.

Туре

string Warehouse name

VOLTAGE or IOVOLTTAGE

FEX Fan Speed Statistics attribute group

This attribute group provides the speed statistics of the fabric extender fan. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Fan Speed Statistics attribute group:

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string

Warehouse name FABRIC_EXTENDER_DN or FBREXTR_DN Fabric Extender ID attribute Description The ID of the fabric extender. Type string Warehouse name FABRIC_EXTENDER_ID or FBREXTR_ID Fan DN attribute This attribute is a key attribute. Description The distinguished name of the fan. Type string Warehouse name FAN_DN or FEXDFAN_DN Fan ID attribute Description The ID of the fan. Type string Warehouse name FAN ID or FEXDFAN ID Fan Speed attribute Description The speed of the fan. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name FAN_SPEED or FANS_SPEED Fan Stats DN attribute Description The distinguished name of the fan statistics. Type string Warehouse name FAN_STATS_DN or FAN_STATDN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent.

Warehouse name TIMESTAMP

FEX Firmware attribute group

This attribute group provides the firmware details of the fabric extender and its subcomponents. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Firmware attribute group: Activate Status attribute

Description

The activation status of the firmware.

Type

string

Warehouse name

BOOT_UNIT_OPERSTATE or ACTIVESTAT

Backup Version attribute

Description

The firmware version that is in the memory but not used by the server.

Type

string Warehouse name

UPDATE_VERSION or BACKUPVERN

Deployment attribute

Description

The deployment value that defines the type of firmware.

Туре

string Warehouse name DEPLOYMENT

is Extender DN attribute This attribute is

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Туре

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description

The ID of the fabric extender.

Туре

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

Management Controller DN attribute This attribute is a key attribute. Description

The distinguished name of the management controller.

Type

string

Warehouse name

MANAGEMENT_CONTROLLER_DN or MANAGMT_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type string Source The source for this attribute is the agent. Warehouse name NODE **Running Version attribute** Description The firmware version that is used by the server. Type string Warehouse name RUNNING_VERSION or RUNNINGVER Startup Version attribute Description The firmware version after the server is restarted. Type string Warehouse name BOOT_UNIT_VERSION or STARTUPVER Subject attribute Description The component that the firmware belongs to. Type string Warehouse name SUBJECT or SUBJECTATR Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Update Status attribute** Description The update status of the firmware version. Type string Warehouse name UPDATE_OPERSTATE or UPDATESTAT FEX Health Summary attribute group

This attribute group provides the health summary of the fabric extender. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX Health Summary attribute group:

% Active Fans attribute

Description

The percentage of the fabric extender fans that are currently active.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ACTIVE_FANS_PERCENTAGE or ACTFANSPER

Active Fans attribute

Description

The number of fans that are currently active.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ACTIVE_FANS or ACTIVEFANS

Configuration State attribute

Description

The configuration status of the fabric extender.

Type

string

Warehouse name

CONFIGURATION_STATE or CONF_STATE

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description The ID of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

Faulty Fans attribute

Description

The number of fans that are currently not working.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FAULTY_FANS or FAULTYFANS

Health attribute

Description

The health status of the fabric extender. The yellow or red color highlighting indicates that a fault is generated in the fabric extender.

Type

string Warehouse name HEALTH or FETXHEALTH <u>Node attribute</u> This attribute is a key attribute. Description

The managed system name of the agent.

Type

string

Source ____

The source for this attribute is the agent.

Warehouse name

NODE

Operability attribute

Description

The operability status of the fabric extender.

Туре

string Warehouse name OPERABILITY or OPERABILTY

OperState attribute

Description

The operational status of the fabric extender.

Туре

string

Warehouse name

OPERSTATE or OPER_STATE

PID attribute

Description

The model number of the fabric extender.

Туре

string Warehouse name

MODEL or FEX_MODEEL

Power attribute

Description

The power status of the fabric extender.

Type

string

Warehouse name

POWER or FEXDRPOWER

Presence attribute

Description

The presence status of the fabric extender.

Туре

string

Warehouse name

PRESENCE or PRESENCETR

Thermal attribute

Description

The thermal status of the fabric extender.

Type

string Warehouse name

THERMAL or FEDXTHRMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string **Source**

The source for this attribute is the agent.

TIMESTAMP

Total Fans attribute

Description

The number of fans that are currently available in the fabric extender.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FANS

Total Faults attribute

Description

The total number of faults that are currently generated in the fabric extender.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or FBEXFAULTS

Vendor attribute

Description

The vendor name of the fabric extender.

Туре

string

Warehouse name VENDOR or FEX VENDOR

FEX IO Backplane Port Health attribute group

This attribute group provides a health summary of the backplane port in the fabric extender I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX IO Backplane Port Health attribute group:

Backplane Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the backplane port.

Type

string

Warehouse name

PORT_DN or BCKPORT_DN

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description

The ID of the fabric extender.

Type

string

FABRIC_EXTENDER_ID or FBREXTR_ID

Health attribute

Description

The health status of the fabric extender backplane port. The yellow and red color highlighting indicates that a fault is generated in the fabric extender backplane port.

Туре

string

Warehouse name

HEALTH or MODUL_HLTH

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender I/O module.

Туре

string

Warehouse name

IO_MODULE_DN or IOMODUL_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

OperState attribute

Description

The operational status of the fabric extender backplane port.

Type

string Warehouse name

OPERSTATE or OPERSTATEE

Port ID attribute

Description

The ID of the backplane port.

Туре

string

Warehouse name

PORT_ID or BCKPORT_ID

Slot ID attribute

Description

The slot ID of the fabric extender I/O module.

Туре

string

Warehouse name

IO_MODULE_ID or IOMODUL_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the fabric extender backplane port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or MODL_FAULT

FEX IO Fabric Port Health attribute group

This attribute group provides a health summary of the fabric ports that are available in the fabric extender I/O module.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX IO Fabric Port Health attribute group:

Acknowledged attribute

Description

A description of the acknowledgement status of the fabric port.

Туре

string

Warehouse name

ACK or ACKNOWLDGE

Discovery attribute

Description

A description of the discovery status of the fabric port.

Туре

string

Warehouse name

DISCOVERY or DISCOVERYY

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description

The ID of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

Health attribute

Description

The health status of the fabric port. The yellow and red color highlighting indicates that a fault is generated in the fabric port.

Туре
Warehouse name HEALTH or MODUL HLTH IO Module DN attribute This attribute is a key attribute. Description The distinguished name of the fabric extender I/O module. Type string Warehouse name IO_MODULE_DN or IOMODUL_DN **IO Module ID attribute** Description The ID of the fabric extender I/O module Type string Warehouse name IO_MODULE_ID or IOMODUL_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **OperState attribute** Description The operational status of the fabric extender backplane port. Type string Warehouse name **OPERSTATE or OPERSTATEE** Port DN attribute This attribute is a key attribute. Description The distinguished name of the fabric port. Type string Warehouse name PORT_DN or BCKPORT_DN Port ID attribute Description The ID of the fabric port. Type string Warehouse name PORT_ID or BCKPORT_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Total Faults attribute

Description

The total number of faults that are currently generated in the fabric port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or MODL_FAULT

FEX IO Module Configuration attribute group

This attribute group provides the configuration details of the fabric extender I/O module.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX IO Module Configuration attribute group:

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description The ID of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

Fabric ID attribute

Description

The associated fabric interconnect ID of the fabric extender I/O module.

Туре

string

Warehouse name

SWITCHID or SWITCHIDAT

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender I/O module.

Type

string

Warehouse name

IO_MODULE_DN or IOMODUL_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the fabric extender I/O module.

Type string

Warehouse name

MODEL or FXIOM_MODL

Revision attribute

Description

The revision number of the fabric extender I/O module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or FIREVISION

Serial Number (SN) attribute

Description

The serial number of the fabric extender I/O module.

Type

string Warehouse name

SERIAL or FIO SERIAL

Side attribute

Description

The side of the fabric extender I/O module.

Туре

string

Warehouse name SIDE or FIOMODSIDE

Slot ID attribute

Description

The slot ID of the fabric extender I/O module.

Туре

string Warehouse name

IO_MODULE_ID or IOMODUL_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the fabric extender I/O module.

Туре

string Warehouse name VENDOR or FIO_VENDOR

FEX IO Module Health Summary attribute group

This attribute group provides a health summary of the fabric extender I/O module.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX IO Module Health Summary attribute group:

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string Warehouse name FABRIC_EXTENDER_DN or FBREXTR_DN Fabric Extender ID attribute

Description

The ID of the fabric extender.

Type

string Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

Health attribute

Description

The health status of the fabric extender I/O module. The yellow and red color highlighting indicates that a fault is generated in the fabric extender I/O module or its ports.

Type

string

Warehouse name

HEALTH or IOM HEALTH

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender I/O module.

Type

string

Warehouse name

IO_MODULE_DN or IOMODUL_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Operability attribute

Description

The operability status of the fabric extender I/O module.

Type

string Warehouse name

OPERABILITY or OPRABILITY

OperState attribute Description

The operational status of the fabric extender I/O module.

Type

string

Warehouse name OPERSTATE or OPER STATE **Presence** attribute Description The presence status of the fabric extender I/O module. Type string Warehouse name PRESENCE or IOPRESENCE Serial Number (SN) attribute Description The serial number of the fabric extender I/O module. Type string Warehouse name SERIAL or IOH_SERIAL Slot ID attribute Description The slot ID of the fabric extender I/O module. Type string Warehouse name IO MODULE ID or IOMODUL ID Thermal attribute Description The thermal status of the fabric extender I/O module. Type string Warehouse name THERMAL or IOHTHERMAL **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the fabric extender I/O module and ports. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name TOTAL_FAULTS or IOM_FAULTS

FEX IO Module Temperature attribute group

This attribute group provides the temperature statistics of the fabric extender I/O module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX IO Module Temperature attribute group:

Ambient Temperature (C) attribute

Description

The current ambient temperature of the fabric extender I/O module.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

AMBIENT_TEMPERATURE or AMBIENTTMP

ASIC Temperature (C) attribute

Description

The current application-specific integrated circuit (ASIC) temperature of the fabric extender I/O module.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TEMPERATURE or TEMPATTRIB

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description The ID of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

IO Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender I/O module.

Type

string

Warehouse name

IO_MODULE_DN or IOMODUL_DN

IO Module Stats DN attribute

Description

The distinguished name of the fabric extender I/O module statistics.

Type

string

Warehouse name

IO_MODULE_STATS_DN or IOMODST_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Slot ID attribute

Description

The ID of the fabric extender I/O module

Туре

string Warehouse name

IO_MODULE_ID or IOMODUL_ID

Timestamp attribute Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

FEX PSU Configuration Details attribute group

This attribute group provides the configuration details of the fabric extender PSU. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the FEX PSU Configuration Details attribute group: Fabric Extender DN attribute This attribute is a key attribute. Description The distinguished name of the fabric extender. Type string Warehouse name FABRIC_EXTENDER_DN or FBREXTR_DN Fabric Extender ID attribute Description The ID of the fabric extender. Type string Warehouse name FABRIC_EXTENDER_ID or FBREXTR_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE PID attribute Description The model number of the fabric extender PSU.

string Warehouse name

MODEL or FPSU_MODEL

PSU DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender PSU.

Туре

string

Warehouse name

PSU_DN or FEX_PSU_DN

PSU ID attribute

Description

The ID of the fabric extender PSU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PSU_ID or FEXDPSU_ID

Revision attribute

Description

The current revision number of the fabric extender PSU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or PSREVISION

Serial Number (SN) attribute

Description

The serial number of the fabric extender PSU.

Туре

string

Warehouse name

SERIAL or PSU_SERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the fabric extender PSU.

Туре

string

Warehouse name

VENDOR or PSU_VENDOR

FEX PSU Environment Statistics attribute group

This attribute group provides the environment statistics of the fabric extender PSU.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX PSU Environment Statistics attribute group:

Current (A) attribute

Description

The current value (in amperes) of the PSU current.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CURRENT or PSU_CURENT

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description

The ID of the fabric extender.

Туре

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Power(W) attribute

Description

The power (in watts) of the fabric extender PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

POWER or PSU_POWEER

PSU DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender PSU.

Type

string

Warehouse name

PSU_DN or FEX_PSU_DN

PSU ID attribute

Description

The current ID of the PSU.

string Warehouse name

PSU_ID or FEXDPSU_ID

PSU Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender PSU statistics.

Type

string

Warehouse name

PSU_STATS_DN or PSU_STS_DN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Voltage(V) attribute

Description

The current value (in volts) of the PSU voltage.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

VOLTAGE or PSU_VOLTAG

FEX PSU Health Summary attribute group

This attribute group provides a health summary of the fabric extender PSU.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FEX PSU Health Summary attribute group:

Fabric Extender DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric extender.

Туре

string

Warehouse name

FABRIC_EXTENDER_DN or FBREXTR_DN

Fabric Extender ID attribute

Description

The ID of the fabric extender.

Type

string

Warehouse name

FABRIC_EXTENDER_ID or FBREXTR_ID

Health attribute

Description

The health status of the fabric extender PSU. The yellow and red color highlighting indicates that a fault is generated in the fabric extender PSU.

Type string Warehouse name HEALTH or IOM_HEALTH Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the fabric extender PSU. Type string Warehouse name **OPERABILITY or OPRABILITY OperState attribute** Description The operational status of the fabric extender PSU. Type string Warehouse name OPERSTATE or OPER STATE **Performance attribute** Description The performance status of the fabric extender PSU. Type string Warehouse name PERFORMANCE or PERFORMANC **Power attribute** Description The power status of the fabric extender PSU. Type string Warehouse name POWER or FEXPSUPWER **Presence** attribute Description The presence status of the fabric extender PSU. Type string Warehouse name PRESENCE or PSPRESENCE PSU DN attribute This attribute is a key attribute. Description The distinguished name of the fabric extender PSU. Type string Warehouse name PSU_DN or FEX_PSU_DN **PSU ID attribute**

Chapter 4. Attributes reference 145

Description

The ID of the fabric extender PSU.

Туре

string Warehouse name

PSU_ID or FEX_PSU_ID

Thermal attribute

Description

The thermal status of the fabric extender PSU.

Туре

string Warehouse name

THERMAL or PSUTHERMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the fabric extender PSU.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or IOM_FAULTS

Voltage attribute

Description

The voltage status of the fabric extender PSU.

Туре

string

Warehouse name

VOLTAGE or VOLTAGEPSU

FI Configuration Details attribute group

This attribute group provides configuration details of the fabric interconnect.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI Configuration Details attribute group:

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Type

string Warehouse name FABRIC_INTERCONNECT_DN or FABRICI_DN Fabric Interconnect ID attribute

Description The ID of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_ID or FABRICI_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **PID** attribute Description The model number of the fabric interconnect. Type string Warehouse name MODEL or FABR MODEL **Revision attribute** Description The current revision number of the fabric interconnect. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name **REVISION or FIREVISION** Serial Number (SN) attribute Description The serial number of the fabric interconnect. Type string Warehouse name SERIAL or FAB_SERIAL **Timestamp attribute** Description The local time at the agent when the data was collected. Type

string **Source**

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Memory (MB) attribute

Description

The amount of memory (MB) that is currently available in the fabric interconnect. **Type**

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_MEMORY or TOTLMEMORY

Vendor attribute

Description

The vendor name of the fabric interconnect.

Туре

string Warehouse name

VENDOR or FAB_VENDOR

FI Fan Configuration Details attribute group

This attribute group provides the configuration details of the fabric interconnect fan. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the FI Fan Configuration Details attribute group: Fabric Interconnect DN attribute This attribute is a key attribute. Description The distinguished name of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_DN or FABRICI_DN Fabric Interconnect ID attribute Description The ID of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_ID or FABRICI_ID Fan DN attribute This attribute is a key attribute. Description The distinguished name of the fan. Type string Warehouse name FAN_DN or FABRFAN_DN Fan ID attribute Description The ID of the fan. Type string Warehouse name FAN_ID or FABRFAN_ID Module attribute Description The current ID of the fan module. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name MODULE or FAN MODULE Node attribute This attribute is a key attribute. Description The managed system name of the agent.

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the fan.

Туре

string Warehouse name

MODEL or FFAN_MODEL

Revision attribute

Description

The current revision number of the fan module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or FNREVISION

Serial Number (SN) attribute

Description

The serial number of the fan.

Туре

string Warehouse name

SERIAL or FAN_SERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the fan.

Туре

string Warehouse name

```
VENDOR or FAN VENDOR
```

FI Fan Health Summary attribute group

This attribute group provides a health summary of the fabric interconnect fan. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI Fan Health Summary attribute group:

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Type string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Fan DN attribute This attribute is a key attribute.

Description

The distinguished name of the fan.

Type

string

Warehouse name

FAN_DN or FABRFAN_DN

Fan ID attribute

Description

The current ID of the fan.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FAN_ID or FABRFAN_ID

Health attribute

Description

The health status of the fan. The yellow or red color highlighting indicates that a fault is generated in the fabric interconnect fan.

Type

string

Warehouse name

HEALTH or FAN_HEALTH

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Operability attribute

Description

The operability status of the fan.

Type

string Warehouse name

OPERABILITY or OPRABILITY

Performance attribute

Description

The performance status of the fan.

Type string Warehouse name PERFORMANCE or PERFORMANC Power attribute Description The power status of the fan. Type string Warehouse name POWER or FIFANPOWER **Presence attribute** Description The presence status of the fan. Type string Warehouse name PRESENCE or FNPRESENCE Thermal attribute Description The thermal status of the fan. Type string Warehouse name THERMAL or FANTHERMAL **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the fabric interconnect fan.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or FAN_FAULTS

FI Fixed Expansion Configuration attribute group

This attribute group provides the configuration details of the fabric interconnect modules. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI Fixed Expansion Configuration attribute group:

Description attribute

Description

The description of the fabric interconnect module.

string Warehouse name

DESCRIPTION or DSCRIPTION

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Туре

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Number of Ports attribute

Description

The number of ports that are currently available in the fabric interconnect module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

NUMBER_OF_PORTS or FIEX_PORTS

PID attribute

Description

The model number of the fabric interconnect module.

Type

string

Warehouse name

MODEL or FIEX_MODEL

Revision attribute

Description

The current revision number of the fabric interconnect module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or FXREVISION

Serial Number (SN) attribute

Description

The serial number of the fabric interconnect module.

string

Warehouse name

SERIAL or FIX_SERIAL

Slot DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect module.

Type

string Warehouse name

SLOT_DN or FIXDEXP_DN

Slot ID attribute

Description

The slot ID of the fabric interconnect module.

Туре

string Warehouse name

SLOT_ID or FIXDEXP_ID

Slot Type attribute

Description

The slot type of the fabric interconnect module. The slot type can be Fixed or Expansion.

Type

string

Warehouse name

SLOT_TYPE or FXOREXPSLT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the fabric interconnect module.

Туре

string Warehouse name

VENDOR or FIXDVENDOR

FI Fixed Expansion Port Health attribute group

This attribute group provides a health summary of ports in the fabric interconnect modules. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI Fixed Expansion Port Health attribute group:

Chassis ID attribute

Description

The ID of the chassis.

Type string

Warehouse name CHASSIS ID Fabric Interconnect DN attribute This attribute is a key attribute. Description The distinguished name of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_DN or FABRICI_DN Fabric Interconnect ID attribute Description The ID of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_ID or FABRICI_ID Health attribute Description The health status of the port. The yellow and red color highlighting indicates that a fault is generated in the port. Type string Warehouse name HEALTH or MODUL_HLTH Network Type attribute Description The network type of the port. The valid values are LAN and SAN. Type string Warehouse name NETWORK_TYPE or MODUL_TYPE Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **OperState attribute** Description The operational status of the port. Type string Warehouse name **OPERSTATE or OPER STATE** Port DN attribute This attribute is a key attribute. Description The distinguished name of the fabric interconnect port. Type string Warehouse name PORT_DN or FABPORT_DN Port ID attribute

Description The port ID of the fabric interconnect. Type string Warehouse name PORT_ID or FABPORT_ID Port Role attribute Description The role of the port. Type string Warehouse name PORT_ROLE or FBPORTROLE Slot ID attribute Description The slot ID of the fabric interconnect. Type string Warehouse name SLOT_ID or FABSLOT_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the fabric interconnect port. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name TOTAL_FAULTS or MODL_FAULT **Transport Type attribute** Description The transport type of the port. Type string Warehouse name TRANSPORT_TYPE or FTRANSPORT

FI Hardware Firmware attribute group

This attribute group provides information about the fabric interconnect hardware and the installed firmware.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI Hardware Firmware attribute group:

Activate Status (Kernel) attribute

Description

The activation status of the kernel.

Type

string

Warehouse name

KERNEL_OPERSTATE or STKNLOPRST

Activate Status (System) attribute

Description

The activation status of the system.

Туре

string

Warehouse name

SYSTEM_OPERSTATE or STSYSOPRST

Boot-loader Version attribute

Description

The firmware version that is associated with the boot-loader software.

Type

string

Warehouse name

BOOTLOADER_VERSION or BOOTLDRVER

Deployment (Boot-loader) attribute

Description

The deployment value that defines the type of firmware.

Type

string

Warehouse name

DEPLOYMENT or BOOTLDRDPT

Deployment (Kernel) attribute

Description

The deployment value that defines the type of firmware.

Type

string

Warehouse name

KERNEL_DEPLOYMENT or KNLDEPLYMT

Deployment (System) attribute

Description

The deployment value that defines the type of firmware.

Туре

string Warehouse name

SYSTEM_DEPLOYMENT or SYSDEPLYMT

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Type

string Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Type

string Warehouse name FABRIC_INTERCONNECT_ID or FABRICI_ID

Kernel Version attribute Description The kernel version that is used by the server. Type string Warehouse name KERNEL_VERSION or KNLVERSION Management Controller DN attribute This attribute is a key attribute. Description The distinguished name of the management controller. Type string Warehouse name MANAGEMENT_CONTROLLER_DN or MANAGMT_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Package Version (System) attribute Description The version of the firmware package that includes the system firmware. Type string Warehouse name PACKAGE VERSION or SYSPACKVER Startup Kernel Type attribute Description The type of kernel after the server is restarted. Type string Warehouse name KERNEL_TYPE or STKRNLTYPE Startup Kernel Version attribute Description The kernel version after the server is restarted. Type string Warehouse name STARTUP_KERNEL_VERSION or STKNLVERSN Startup System Type attribute Description The type of firmware after the server is restarted. Type string Warehouse name SYSTEM TYPE or STSYSTTYPE Startup System Version attribute Description The firmware version after the server is restarted. Type string

Warehouse name STARTUP SYSTEM VERSION or STSYSVERSN System Version attribute Description The version of the firmware. Type string Warehouse name SYSTEM_VERSION or SYSVERSION Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

FI Health Summary attribute group

This attribute group provides the health summary and the state of the fabric interconnect.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI Health Summary attribute group:

% Port Utilization attribute

Description

The percentage of the total number of ports in the fabric interconnect that are currently used.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PORT_UTILIZATION or PORTUTILIZ

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Туре

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Туре

string Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Health attribute

Description

The health status of the fabric interconnect. The yellow and red color highlighting indicates that a fault is generated in the fabric interconnect or its subcomponents.

Туре

string

Warehouse name HEALTH or HEALTH_ATT

Leadership attribute

Description

The leadership role of the fabric interconnect.

Type

string Warehouse name

LEADERSHIP

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

State attribute

Description

The working state of the fabric interconnect.

Туре

string Warehouse name

STATE or STATE_ATTR

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute Description

The total number of faults that are currently generated in the fabric interconnect and its subcomponents.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

FI LAN Error Statistics attribute group

This attribute group provides the error statistics of the fabric interconnect LAN port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI LAN Error Statistics attribute group:

Description

The delta number of received frames that are not an integral number of octets in length.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ALIGN_DELTA or FIETHERRAD

Deffered Tx (errors) attribute

Description

The delta number of frames for which the first transmission attempt is delayed because the medium is busy.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DEFFERED_TRANSMITTED_DELTA or FIETHERRDD

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

FCS (errors) attribute

Description

The delta number of received frames that did not pass the frame check sequence (FCS) check.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FCS_DELTA or FIETHERRFD

Int Mac Rx (errors) attribute

Description

The delta number of frames for which reception failed due to an internal media access control (MAC) sublayer transmit error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAC_RECEIVED_DELTA or FIETHERRRD

Int Mac Tx (errors) attribute

Description

The delta number of frames for which transmission failed due to an internal MAC sublayer transmit error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAC_TRANSMITTED_DELTA or FIETHERRTD

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Out Discard (errors) attribute

Description

The delta number of frames that are discarded due to buffer overflows at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUT_DISCARD_DELTA or FIETHERROD

Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the port.

Type

string

Warehouse name

PORT_DN or FABPORT_DN

Port Error Stats DN attribute

Description

The distinguished name of the port error statistics.

Туре

```
string
```

```
Warehouse name
```

PORT_ERROR_STATS_DN or FIETHERRDN

Port ID attribute

Description

The ID of the port.

Туре

string

Warehouse name

PORT_ID or FABPORT_ID

Rcv (errors) attribute

Description

The delta number of MAC control frames for which reception at the port failed.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVE_DELTA or FIETHERRCD

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Under Size (errors) attribute

Description

The delta number of undersized frames whose transmission through the port failed.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNDER_SIZE_DELTA or FIETHERRUD

Xmit (errors) attribute

Description

The delta number of MAC control frames for which transmission through the port failed.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMIT_DELTA or FIETHERRXD

FI LAN Hist Statistics attribute group

This attribute group provides historical statistics about the data that is transmitted and received by the fabric interconnect LAN port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI LAN Hist Statistics attribute group:

Broadcast Packets Rx attribute

Description

The delta number of broadcast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BROADCAST_PACKETS_DELTA or RCBRDPKTDL

Broadcast Packets Tx attribute

Description

The delta number of broadcast packets that are transmitted through the port.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BROADCAST_PACKETS_DELTA or TXBRDPKTDL

Ether Received Stats DN attribute

Description

The distinguished name of the Ethernet received statistics.

Туре

string Warehouse name

ETHER_RECEIVED_STATS_DN or ETHRRCVDDN

Ether Transmitted Stats DN attribute

Description

The distinguished name of the Ethernet transmitted statistics.

Туре

string

Warehouse name

ETHER_TRANSMITTED_STATS_DN or ETHRTRNSDN

Jumbo Packets Rx attribute

Description

The delta number of jumbo packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_JUMBO_PACKETS_DELTA or JUMBOPKTDL

Jumbo Packets Tx attribute

Description

The delta number of jumbo packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_JUMBO_PACKETS_DELTA or JUMTXPKTDL

Multicast Packets Rx attribute

Description

The delta number of multicast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_MULTICAST_PACKETS_DELTA or RCMULPKTDL

Multicast Packets Tx attribute

Description

The delta number of multicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_MULTICAST_PACKETS_DELTA or TXMULPKTDL

Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port DN attribute This attribute is a key attribute. Description The distinguished name of the port. Type string Warehouse name PORT_DN or FABPORT_DN Port ID attribute Description The ID of the port. Type string Warehouse name PORT ID or FABPORT ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Total Bytes Delta Avg Rx attribute

Description

The average delta number of total bytes that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA_AVG or RXTLBDLTAV

Total Bytes Delta Avg Tx attribute

Description

The average delta number of total bytes that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA_AVG or TXTLBDLTAV

Total Bytes Delta Max Rx attribute

Description

The maximum delta number of total bytes that are received by the port.

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA_MAX or RXTLBDLTMX

Total Bytes Delta Max Tx attribute

Description

Type

The maximum delta number of total bytes that are transmitted through the port.

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA_MAX or TXTLBDLTMX

Total Bytes Delta Min Rx attribute

Description

The minimum delta number of total bytes that are received by the port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA_MIN or RXTLBDLTMN

Total Bytes Delta Min Tx attribute

Description

The minimum delta number of total bytes that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA_MIN or TXTLBDLTMN

Total Bytes Delta Rx attribute

Description

The number of total bytes that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA or RXTLBTSDLT

Total Bytes Delta Tx attribute

Description

The number of total bytes that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL TRANSMITTED BYTES DELTA or TXTLBTSDLT

Total Bytes Rx attribute

Description

The total number of bytes that are received by the port.

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES or RXTOTLBYTS

Total Bytes Tx attribute

Description

The total number of bytes that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES or TXTOTLBYTS

Total Packets Rx attribute

Description

The delta number of total packets that are received by the port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_PACKETS_DELTA or TORCPKTDLT

Total Packets Tx attribute

Description

The delta number of total packets that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_PACKETS_DELTA or TOTXPKTDLT

Unicast Packets Rx attribute

Description

The delta number of unicast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_UNICAST_PACKETS_DELTA or RCUNIPKTDL

Unicast Packets Tx attribute

Description

The delta number of unicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_UNICAST_PACKETS_DELTA or TXUNIPKTDL

FI LAN Loss Statistics attribute group

This attribute group provides the loss statistics of the fabric interconnect LAN port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI LAN Loss Statistics attribute group:

Carrier Sense (errors) attribute

Description

The delta number of packets that are lost due to the carrier Sense error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CARRIER_SENSE_DELTA or FILOSSTCSD

Excess Collision (errors) attribute

Description

The delta number of packets that are lost due to the excess collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

EXCESS_COLLISION_DELTA or FILOSSTECD

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Туре

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Giants (errors) attribute

Description

The delta number of packets that are lost due to the giants error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

GIANTS_DELTA or FILOSST_GD

Late Collision (errors) attribute

Description

The delta number of packets that are lost due to the late collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LATE_COLLISION_DELTA or FILOSSTLCD

Multi Collision (errors) attribute

Description

The delta number of packets that are lost due to the multi collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MULTI_COLLISION_DELTA or FILOSSTMCD

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the port.

Type

string

Warehouse name

PORT_DN or FABPORT_DN

Port ID attribute

Description

The ID of the port.

Туре

string

Warehouse name

PORT_ID or FABPORT_ID

Port Loss Stats DN attribute

Description

The distinguished name of the port loss statistics.

Туре

string

Warehouse name

PORT_LOSS_STATS_DN or FILOSSSTDN

Single Collision (errors) attribute

Description

The delta number of packets that are lost due to the single collision error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SINGLE_COLLISION_DELTA or FILOSSTSCD

SQE Test (errors) attribute

Description

The delta number of packets that are lost due to the SQE Test error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SQE_TEST_DELTA or FILOSSSQED

Symbol (errors) attribute

Description

The delta number of packets that are lost due to the symbol error.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SYMBOL_DELTA or FILOSSTSYD

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source _

The source for this attribute is the agent.

Warehouse name TIMESTAMP

FI LAN Pause Statistics attribute group

This attribute group provides the pause statistics of the fabric interconnect LAN port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI LAN Pause Statistics attribute group:

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Туре

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string Source

The source for this attribute is the agent.

Warehouse name

NODE

Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the port.

Type

string

Warehouse name

PORT DN or FABPORT DN

Port ID attribute

Description

The ID of the port.

Туре

string Warehouse name

PORT_ID or FABPORT_ID

Port Pause Stats DN attribute

Description

The distinguished name of the port pause statistics.

Type

string

Warehouse name

PORT_PAUSE_STATS_DN or FIPAUSSTDN

Recv Pause attribute

Description

The delta number of pauses that occurred while receiving the data at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECIEVE_PAUSE_DELTA or FIPAUSDELT

Resets attribute

Description

The delta number of resets that occurred while transmitting the data through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RESETS_DELTA or FIRSETDELT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Xmit Pause attribute

Description

The delta number of pauses that occurred while transmitting the data through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PAUSE_DELTA or FITXPAUSDT
FI LAN Port Channel Aggregate Statistics attribute group

This attribute group provides the aggregate of the statistics of all ports of the fabric interconnect LAN port channel. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the FI LAN Port Channel Aggregate Statistics attribute group: Locale attribute This attribute is a key attribute. Description The locale of the Ether Port channel. Type string Warehouse name LOCALE or PRCHLOCALE Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port Channel DN attribute This attribute is a key attribute. Description The distinguished name of the port channel. Type string Warehouse name PORT_CHANNEL_DN or EXTPRTCHDN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Total Bytes Delta Avg Rx attribute Description The average delta number of total bytes that are received by the port. Type integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA_AVG or RXTLBDLTAV

Total Bytes Delta Avg Tx attribute

Description

The average delta number of total bytes that are transmitted through the port.

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA_AVG or TXTLBDLTAV

Total Bytes Delta Rx attribute

Description

The delta number of total bytes that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA or RXTLBTSDLT

Total Bytes Delta Tx attribute

Description

The delta number of total bytes that are transmitted through the port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA or TXTLBTSDLT

Total Packets Delta Avg Rx attribute

Description

The average delta number of total packets that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_PACKETS_DELTA_AVG or TORXPKDAVG

Total Packets Delta Avg Tx attribute

Description

The average delta number of total packets that are transmitted through the port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_PACKETS_DELTA_AVG or TOTXPTDLAG

Total Packets Delta Rx attribute

Description

The delta number of total packets that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_PACKETS_DELTA or TORCPKTDLT

Total Packets Delta Tx attribute

Description

The delta number of total packets that are transmitted through the port.

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_PACKETS_DELTA or TOTXPKTDLT

FI LAN Port Channel Statistics attribute group

This attribute group provides details and statistics of the fabric interconnect LAN port channel. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI LAN Port Channel Statistics attribute group:

Admin State attribute

Description

The administrator status of the port channel.

Туре

string

Warehouse name

ADMINSTATE or EXADMNSTAT

Broadcast Packets Rx attribute

Description

The delta number of broadcast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BROADCAST_PACKETS_DELTA or RCBRDPKTDL

Broadcast Packets Tx attribute

Description

The delta number of broadcast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BROADCAST_PACKETS_DELTA or TXBRDPKTDL

Ether Received Stats DN attribute

Description

The distinguished name of the Ethernet received statistics.

Туре

```
string
```

```
Warehouse name
```

ETHER_RECEIVED_STATS_DN or ETHRRCVDDN

Ether Transmitted Stats DN attribute

Description

The distinguished name of the Ethernet transmitted statistics.

Type

string

Warehouse name

ETHER_TRANSMITTED_STATS_DN or ETHRTRNSDN

Fabric Interconnect ID attribute

The ID of the fabric interconnect.

Type string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Jumbo Packets Rx attribute

Description

The delta number of jumbo packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_JUMBO_PACKETS_DELTA or JUMBOPKTDL

Jumbo Packets Tx attribute

Description

The delta number of jumbo packets that are transmitted through the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_JUMBO_PACKETS_DELTA or JUMTXPKTDL

Locale attribute This attribute is a key attribute.

Description

The locale of the Ether port channel.

Туре

string

Warehouse name LOCALE or EXTPCLCALE

Multicast Packets Rx attribute

Description

The delta number of multicast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_MULTICAST_PACKETS_DELTA or RCMULPKTDL

Multicast Packets Tx attribute

Description

The delta number of multicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_MULTICAST_PACKETS_DELTA or TXMULPKTDL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

Source

string

The source for this attribute is the agent.

Warehouse name NODE **Oper State attribute** Description The operational status of the port channel. Type string Warehouse name OPER_STATE Port Channel DN attribute This attribute is a key attribute. Description The distinguished name of the port channel. Type string Warehouse name PORT_CHANNEL_DN or EXTPRTCHDN Port Channel EPDN attribute This attribute is a key attribute. Description The distinguished name of the Ether port channel. Type string Warehouse name PORT CHANNEL EPDN or PORTCHEPDN Port Channel Peer DN attribute This attribute is a key attribute. Description The distinguished name of the peer port channel. Type string Warehouse name PORT_CHANNEL_PEER_DN or EXTPRCPRDN Port DN attribute This attribute is a key attribute. Description The distinguished name of the port. Type string Warehouse name PORT_DN or FABPORT_DN Port ID attribute Description The ID of the port. Type string Warehouse name PORT_ID or FABPORT_ID Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Total Bytes Delta Avg Rx attribute Description The average delta number of total bytes that are received by the port.

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA_AVG or RXTLBDLTAV

Total Bytes Delta Avg Tx attribute

Description

The average delta number of total bytes that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA_AVG or TXTLBDLTAV

Total Bytes Delta Max Rx attribute

Description

The maximum delta number of total bytes that are received by the port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA_MAX or RXTLBDLTMX

Total Bytes Delta Max Tx attribute

Description

The maximum delta number of total bytes that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA_MAX or TXTLBDLTMX

Total Bytes Delta Min Rx attribute

Description

The minimum delta number of total bytes that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA_MIN or RXTLBDLTMN

Total Bytes Delta Min Tx attribute

Description

The minimum delta number of total bytes that are transmitted through the port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA_MIN or TXTLBDLTMN

Total Bytes Delta Rx attribute

Description

The number of total bytes that are received by the port.

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA or RXTLBTSDLT

Total Bytes Delta Tx attribute

Description

The number of total bytes that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA or TXTLBTSDLT

Total Bytes Rx attribute

Description

The total number of bytes that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES or RXTOTLBYTS

Total Bytes Tx attribute

Description

The total number of bytes that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES or TXTOTLBYTS

Total Packets Rx attribute

Description

The delta number of total packets that are received by the port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_PACKETS_DELTA or TORCPKTDLT

Total Packets Tx attribute

Description

The delta number of total packets that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_PACKETS_DELTA or TOTXPKTDLT

Unicast Packets Rx attribute

Description

The delta number of unicast packets that are received by the port.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_UNICAST_PACKETS_DELTA or RCUNIPKTDL

Unicast Packets Tx attribute

Description

The delta number of unicast packets that are transmitted through the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_UNICAST_PACKETS_DELTA or TXUNIPKTDL

FI LAN Statistics attribute group

This attribute group provides statistics about the data transmitted and received by the fabric interconnect LAN port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI LAN Statistics attribute group:

Broadcast Packets Rx attribute

Description

The delta number of broadcast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BROADCAST_PACKETS_DELTA or RCBRDPKTDL

Broadcast Packets Tx attribute

Description

The delta number of broadcast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BROADCAST_PACKETS_DELTA or TXBRDPKTDL

Ether Received Stats DN attribute

Description

The distinguished name of the Ethernet received statistics.

Type

string

Warehouse name

ETHER_RECEIVED_STATS_DN or ETHRRCVDDN

Ether Transmitted Stats DN attribute

Description

The distinguished name of the Ethernet transmitted statistics.

Type

string

Warehouse name ETHER TRANSMITTED STATS DN or ETHRTRNSDN Fabric Interconnect DN attribute This attribute is a key attribute. Description The distinguished name of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_DN or FABRICI_DN Fabric Interconnect ID attribute Description The ID of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_ID or FABRICI_ID Jumbo Packets Rx attribute

Description

The delta number of jumbo packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_JUMBO_PACKETS_DELTA or JUMBOPKTDL

Jumbo Packets Tx attribute

Description

The delta number of jumbo packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_JUMBO_PACKETS_DELTA or JUMTXPKTDL

Multicast Packets Rx attribute

Description

The delta number of multicast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_MULTICAST_PACKETS_DELTA or RCMULPKTDL

Multicast Packets Tx attribute

Description

The delta number of multicast packets that are transmitted through the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_MULTICAST_PACKETS_DELTA or TXMULPKTDL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the port.

Туре

string

Warehouse name

PORT_DN or FABPORT_DN

Port ID attribute

Description

The ID of the port.

Туре

string

Warehouse name

PORT_ID or FABPORT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Bytes Rx attribute

Description

The delta number of total bytes that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA or TORCBYTDLT

Total Bytes Tx attribute

Description

The delta number of total bytes that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA or TOTXBYTDLT

Total Packets Rx attribute

Description

The delta number of total packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_PACKETS_DELTA or TORCPKTDLT

Total Packets Tx attribute

Description

The delta number of total packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_PACKETS_DELTA or TOTXPKTDLT

Unicast Packets Rx attribute

Description

The delta number of unicast packets that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_UNICAST_PACKETS_DELTA or RCUNIPKTDL

Unicast Packets Tx attribute

Description

The delta number of unicast packets that are transmitted through the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_UNICAST_PACKETS_DELTA or TXUNIPKTDL

FI Port Summary attribute group

This attribute group includes attributes that provide summary information about the types of ports that are used in the fabric interconnect.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI Port Summary attribute group:

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Туре

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Туре

string Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

FCoE Storage Ports attribute

Description

The number of FCoE (Fibre Channel over Ethernet) storage ports that are currently available in the fabric interconnect.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FCOE_STORAGE_PORTS or FCOESTRPRT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Server Ports attribute

Description

The number of server ports that are currently available in the fabric interconnect.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name SERVER PORTS or SERVERPORT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Unconfigured Ethernet Ports attribute

Description

The number of Ethernet ports that are currently not configured.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNCONFIGURED_ETHERNET_PORTS or UNCNETHPRT

Uplink Ethernet Ports attribute

Description

The number of uplink Ethernet ports that are currently available in the fabric interconnect.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UPLINK_ETHERNET_PORTS or UPLNKETPRT

Uplink FC Ports attribute

Description

The number of FC (Fibre Channel) uplink ports that are currently available in the fabric interconnect.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UPLINK_FC_PORTS or UPLNKFCPRT

FI Port Usage attribute group

This attribute group provides information about the ports that are used in the fabric interconnect. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI Port Usage attribute group: Chassis DN attribute This attribute is a key attribute.

Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN Chassis ID attribute Description The ID of the chassis. Type string Warehouse name CHASSIS ID Fabric Interconnect DN attribute This attribute is a key attribute. Description The distinguished name of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_DN or FABRICI_DN Fabric Interconnect ID attribute Description The ID of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_ID or FABRICI_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Ports Used attribute Description The number of ports that are currently used in the fabric interconnect.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PORTS_USED

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

FI PSU Configuration Details attribute group

This attribute group provides the configuration details of the fabric interconnect PSU.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI PSU Configuration Details attribute group:

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Туре

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Туре

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name NODE

PID attribute

Description

The model number of the PSU.

Type

string Warehouse name MODEL or FPSU_MODEL

<u>PSU DN attribute</u> This attribute is a key attribute.

The distinguished name of the PSU.

Type string

Warehouse name

PSU_DN or FAB_PSU_DN

PSU ID attribute

Description

The current ID of the PSU.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PSU_ID or FABRPSU_ID

Revision attribute

Description

The current revision number of the PSU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or PSREVISION

Serial Number (SN) attribute

Description

The serial number of the PSU.

Туре

string Warehouse name

SERIAL or PSU_SERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the PSU.

Туре

string

Warehouse name

VENDOR or PSU_VENDOR

FI PSU Health Summary attribute group

This attribute group provides a health summary of the fabric interconnect power supply unit (PSU). **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI PSU Health Summary attribute group:

Fabric Interconnect DN attribute This attribute is a key attribute. Description The distinguished name of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_DN or FABRICI_DN Fabric Interconnect ID attribute Description The ID of the fabric interconnect. Type string Warehouse name FABRIC_INTERCONNECT_ID or FABRICI_ID Health attribute Description The health status of the PSU. The yellow or red color highlighting indicates that a fault is generated in the fabric interconnect PSU. Type string Warehouse name HEALTH or PSU HEALTH Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the PSU. Type string Warehouse name OPERABILITY or OPRABILITY **Performance attribute** Description The performance status of the PSU. Type string Warehouse name PERFORMANCE or PERFORMANC Power attribute Description The power status of the PSU. Type string Warehouse name POWER or FIPSUPOWER **Presence** attribute Description The presence status of the PSU.

string Warehouse name

PRESENCE or PSPRESENCE

PSU DN attribute This attribute is a key attribute.

Description

The distinguished name of the PSU.

Туре

string Warehouse name

PSU_DN or FAB_PSU_DN

PSU ID attribute

Description

The ID of the PSU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PSU_ID or FABRPSU_ID

Thermal attribute

Description

The thermal status of the PSU.

Туре

string

Warehouse name

THERMAL or PSUTHERMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute Description

The total number of faults that are currently generated in the fabric interconnect PSU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or PSU_FAULTS

Voltage attribute

Description

The voltage status of the PSU.

Туре

string Warehouse name VOLTAGE or PSUVOLTAGE

FI PSU Statistics attribute group

This attribute group provides statistics of the fabric interconnect PSU.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI PSU Statistics attribute group:

Current attribute

Description

The current value of the PSU current (in ampere).

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CURRENT or FABRPSUCUR

Fabric Interconnect DN attribute This attribute is a key attribute.

The ID of the fabric interconnect.

Description

The distinguished name of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description The

Type

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Power attribute

Description

The power (in watt) of the PSU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

POWER or PSUINPOWER

<u>PSU DN attribute</u> This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect PSU.

Туре

string Warehouse name

PSU_DN or FAB_PSU_DN

PSU ID attribute

Description

The current PSU ID of the fabric interconnect.

Туре

string Warehouse name

PSU_ID or FAB_PSU_ID

PSU Input Stats DN attribute

Description

The distinguished name of the fabric interconnect PSU input statistics.

Туре

string Warehouse name

PSU_INPUT_STATS_DN or PSU_IST_DN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Voltage attribute

Description

The current value of the PSU voltage (in volt).

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

VOLTAGE or FABRPSUVOL

FI SAN Error Statistics attribute group

This attribute group provides the error statistics of the fabric interconnect SAN port. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI SAN Error Statistics attribute group:

CRC Rx (errors) attribute

Description

The delta number of the cyclic redundancy check errors at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CRC_RECEIVED_DELTA or CRCRCVDDEL

Discard Rx (errors) attribute

Description

The delta number of receive discard errors for the port.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DISCARD_RECEIVED_DELTA or DISRCVDDEL

Discard Tx (errors) attribute

Description

The delta number of transmit discard errors for the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DISCARD_TRANSMITTED_DELTA or DISTXMTDEL

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Fiber Channel Error Stats DN attribute

Description

The distinguished name of the fiber channel error statistics.

Туре

string

Warehouse name

FIBER_CHANNEL_ERROR_STATS_DN or FIBERCH_DN

Link Failures (errors) attribute

Description

The delta number of errors that are caused by the link failures at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LINK_FAILURES_DELTA or LINKFAILDL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Port DN attribute This attribute is a key attribute.

The distinguished name of the port.

Type string

Warehouse name

PORT_DN or FABPORT_DN

Port ID attribute

Description

The ID of the port.

Туре

string Warehouse name

PORT_ID or FABPORT_ID

Rx (errors) attribute

Description

The delta number of errors that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_DELTA or RECEIVEDDL

Signal Losses (errors) attribute

Description

The delta number of errors that are caused by the signal losses at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SIGNAL_LOSSES_DELTA or SIGLOSDLTA

Sync Losses (errors) attribute

Description

The delta number of errors that are caused by the synchronization losses at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SYNCHRONIZED_LOSSES_DELTA or SYNLOSDLTA

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Too Long Rx (errors) attribute

Description

The delta number of errors that are caused by receiving very long messages on the port.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOO_LONG_RECEIVED_DELTA or TOLONGRCDL

Too Short Rx (errors) attribute

Description

The delta number of errors that are caused by receiving very short messages on the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOO_SHORT_RECEIVED_DELTA or TOSHORTRDL

Tx (errors) attribute

Description

The delta number of transmitted errors on the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_DELTA or TRNSMTDLTA

FI SAN Hist Statistics attribute group

This attribute group provides historical statistics about the data that is transmitted and received by the fabric interconnect SAN ports.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI SAN Hist Statistics attribute group:

Bytes Delta Avg Rx attribute

Description

The average delta number of total bytes that are received by the SAN port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES_DELTA_AVG or RXTLBDLTAV

Bytes Delta Avg Tx attribute

Description

The average delta number of total bytes that are transmitted through the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES_DELTA_AVG or TXTLBDLTAV

Bytes Delta Max Rx attribute

The maximum delta number of total bytes that are received by the SAN port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES_DELTA_MAX or RXTLBDLTMX

Bytes Delta Max Tx attribute

Description

The maximum delta number of total bytes that are transmitted through the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES_DELTA_MAX or TXTLBDLTMX

Bytes Delta Min Rx attribute

Description

The minimum delta number of total bytes that are received by the SAN port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES_DELTA_MIN or RXTLBDLTMN

Bytes Delta Min Tx attribute

Description

The minimum delta number of total bytes that are transmitted through the SAN port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES_DELTA_MIN or TXTLBDLTMN

Bytes Delta Rx attribute

Description

The number of total bytes that are received by the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES_DELTA or RXTLBTSDLT

Bytes Delta Tx attribute

Description

The number of total bytes that are transmitted through the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES_DELTA or TXTLBTSDLT

Bytes Rx attribute

The total number of bytes that are received by the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES or RXTOTLBYTS

Bytes Tx attribute

Description

The total number of bytes that are transmitted through the SAN port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES or TXTOTLBYTS

Delta Average Packets Rx attribute

Description

The delta average number of packets that are received by the SAN port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS_DELTA_AVG or RXPKTDLAVG

Delta Average Packets Tx attribute

Description

Type

The delta average number of packets that are transmitted through the SAN port.

integ

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PACKETS_DELTA_AVG or TXPKTDLAVG

Delta Maximum Packets Rx attribute

Description

The maximum delta number of packets that are received by the SAN port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS_DELTA_MAX or RXPKTDLMAX

Delta Maximum Packets Tx attribute

Description

The maximum delta number of packets that are transmitted through the SAN port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PACKETS_DELTA_MAX or TXPKTDLMAX Delta Minimum Packets Rx attribute

The delta minimum number of packets that are received by the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS_DELTA_MIN or RXPKTDLMIN

Delta Minimum Packets Tx attribute

Description

The delta number of total packets that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PACKETS_DELTA_MIN or TXPKTDLMIN

Delta Packets Rx attribute

Description

The delta number of packets that are received by the SAN port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS_DELTA or RCBRDPKTDL

Delta Packets Tx attribute

Description

The delta number of packets that are transmitted through the SAN port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PACKETS_DELTA or TXBRDPKTDL

FC Stats DN attribute

Description

The distinguished name of the Fibre Channel statistics.

Туре

string

Warehouse name

FC_STATS_DN or FCHSTATSDN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Packets Rx attribute

Description

The number of packets that are received by the port.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS or RXXPACKETS

Packets Tx attribute

Description

The number of packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PACKETS or TXXPACKETS

Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the port.

Type

string

Warehouse name

PORT_DN or FABPORT_DN

Port ID attribute

Description

The ID of the port.

Туре

string Warehouse name

PORT_ID or FABPORT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

FI SAN Port Channel Aggregate Statistics attribute group

This attribute group provides the aggregate of the statistics of all ports of the fabric interconnect SAN port channel.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI SAN Port Channel Aggregate Statistics attribute group:

Locale attribute This attribute is a key attribute.

Description

The locale of the SAN Port channel.

Туре

string Warehouse name LOCALE or PRCHLOCALE Node attribute This attribute is a key attribute.

The managed system name of the agent.

Type string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Port Channel DN attribute This attribute is a key attribute.

Description

The distinguished name of the SAN port channel.

Туре

string

Warehouse name

PORT_CHANNEL_DN or EXTPRTCHDN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Bytes Delta Avg Rx attribute

Description

The average delta number of total bytes that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA_AVG or RXTLBDLTAV

Total Bytes Delta Avg Tx attribute

Description

The average delta number of total bytes that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA_AVG or TXTLBDLTAV

Total Bytes Delta Rx attribute

Description

The delta number of total bytes that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_BYTES_DELTA or RXTLBTSDLT

Total Bytes Delta Tx attribute

Description

The delta number of total bytes that are transmitted through the port.

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_BYTES_DELTA or TXTLBTSDLT

Total Packets Delta Avg Rx attribute

Description

The average delta number of total packets that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_PACKETS_DELTA_AVG or TORXPKDAVG

Total Packets Delta Avg Tx attribute

Description

The average delta number of total packets that are transmitted through the port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_PACKETS_DELTA_AVG or TOTXPTDLAG

Total Packets Delta Rx attribute

Description

The delta number of total packets that are received by the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_RECEIVED_PACKETS_DELTA or TORCPKTDLT

Total Packets Delta Tx attribute

Description

The delta number of total packets that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_TRANSMITTED_PACKETS_DELTA or TOTXPKTDLT

FI SAN Port Channel Statistics attribute group

This attribute group provides details and statistics of the fabric interconnect SAN port channel. **Historical group**

This starik

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI SAN Port Channel Statistics attribute group:

Admin State attribute

Description

The administrator status of the port channel.

Туре

string

Warehouse name ADMINSTATE or EXADMNSTAT

Bytes Delta Avg Rx attribute

Description

The average delta number of total bytes that are received by the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES_DELTA_AVG or RXTLBDLTAV

Bytes Delta Avg Tx attribute

Description

The average delta number of total bytes that are transmitted through the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES_DELTA_AVG or TXTLBDLTAV

Bytes Delta Max Rx attribute

Description

The maximum delta number of total bytes that are received by the SAN port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES_DELTA_MAX or RXTLBDLTMX

Bytes Delta Max Tx attribute

Description

The maximum delta number of total bytes that are transmitted through the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES_DELTA_MAX or TXTLBDLTMX

Bytes Delta Min Rx attribute

Description

The minimum delta number of total bytes that are received by the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES_DELTA_MIN or RXTLBDLTMN

Bytes Delta Min Tx attribute

Description

The minimum delta number of total bytes that are transmitted through the SAN port.

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES_DELTA_MIN or TXTLBDLTMN

Bytes Delta Rx attribute

Description

The number of total bytes that are received by the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES_DELTA or RXTLBTSDLT

Bytes Delta Tx attribute

Description

The number of total bytes that are transmitted through the SAN port.

Туре

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES_DELTA or TXTLBTSDLT

Bytes Rx attribute

Description

The total number of bytes that are received by the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_BYTES or RXTOTLBYTS

Bytes Tx attribute

Description

The total number of bytes that are transmitted through the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_BYTES or TXTOTLBYTS

Delta Average Packets Rx attribute

Description

The delta average number of packets that are received by the SAN port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS_DELTA_AVG or RXPKTDLAVG

Delta Average Packets Tx attribute

Description

The delta average number of packets that are transmitted through the SAN port.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PACKETS_DELTA_AVG or TXPKTDLAVG

Delta Maximum Packets Rx attribute

Description

The maximum delta number of packets that are received by the SAN port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS_DELTA_MAX or RXPKTDLMAX

Delta Maximum Packets Tx attribute

Description

The maximum delta number of packets that are transmitted through the SAN port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PACKETS_DELTA_MAX or TXPKTDLMAX

Delta Minimum Packets Rx attribute

Description

The delta minimum number of packets that are received by the SAN port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS_DELTA_MIN or RXPKTDLMIN

Delta Minimum Packets Tx attribute

Description

The delta number of total packets that are transmitted through the port.

Type

integer (64-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PACKETS_DELTA_MIN or TXPKTDLMIN

Delta Packets Rx attribute

Description

The delta number of packets that are received by the SAN port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS_DELTA or RCBRDPKTDL

Delta Packets Tx attribute

Description

The delta number of packets that are transmitted through the SAN port.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRANSMITTED_PACKETS_DELTA or TXBRDPKTDL

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

FC Stats DN attribute

Description

The distinguished name of the Fibre Channel statistics.

Туре

string

Warehouse name

FC_STATS_DN or FCHSTATSDN

Locale attribute This attribute is a key attribute.

Description

The locale of the Ether port channel.

Туре

string

Warehouse name LOCALE or PORTCHLOCE

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Oper State attribute

Description

The operational status of the port channel.

Type

string

Warehouse name OPER_STATE

Packets Rx attribute

Description

The

The number of packets that are received by the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

RECEIVED_PACKETS or RXXPACKETS

Packets Tx attribute

Description

The number of packets that are transmitted through the port.

Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name TRANSMITTED PACKETS or TXXPACKETS Port Channel DN attribute This attribute is a key attribute. Description The distinguished name of the port channel. Type string Warehouse name PORT_CHANNEL_DN or PORTCHNLDN Port Channel EPDN attribute This attribute is a key attribute. Description The distinguished name of the Ether port channel. Type string Warehouse name PORT_CHANNEL_EPDN or PORTCHEPDN Port Channel Peer DN attribute This attribute is a key attribute. Description The distinguished name of the peer port channel. Type string Warehouse name PORT_CHANNEL_PEER_DN or EXTPRCPRDN Port DN attribute This attribute is a key attribute. Description The distinguished name of the port. Type string Warehouse name PORT_DN or FABPORT_DN Port ID attribute Description The ID of the port. Type string Warehouse name PORT_ID or FABPORT_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

FI SAN Statistics attribute group

This attribute group provides statistics about the data transmitted and received by the fabric interconnect SAN port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI SAN Statistics attribute group:

Bytes Rx attribute

Description

The delta number of bytes that are received by the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BYTES_RECEIVED_DELTA or BYTESRCVED

Bytes Tx attribute

Description

The delta number of bytes that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BYTES_TRANSMITTED_DELTA or BYTESTRANS

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Type

string Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Fiber Channel Stats DN attribute

Description

The distinguished name of the fiber channel statistics.

Type

string

Warehouse name

FIBER_CHANNEL_STATS_DN or FIBERCH_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Packets Rx attribute

Description

The delta number of packets that are received by the port.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PACKETS_RECEIVED_DELTA or PACKETRCVD

Packets Tx attribute

Description

The delta number of packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PACKETS_TRANSMITTED_DELTA or PACKETTRNS

Port DN attribute This attribute is a key attribute.

Description

The distinguished name of the port.

Type

string Warehouse name

PORT_DN or FABPORT_DN

Port ID attribute

Description

The ID of the port.

Туре

string Warehouse name

PORT_ID or FABPORT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

FI System Statistics attribute group

This attribute group includes attributes that provide information about the load on the fabric interconnect and the amount of memory that is available.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI System Statistics attribute group:

Available Memory attribute

Description

Type

The amount of memory (MB) that is currently available in the fabric interconnect.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

AVAILABLE_MEMORY or TOTALMEMOR

Cached Memory attribute

Description

The amount of cache memory (MB) that is currently available in the fabric interconnect.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CACHED_MEMORY or CACHE_MEMO

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Туре

string

Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Type

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Load attribute

Description

The current load on the fabric interconnect.

Type

real number (32-bit gauge) with two decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LOAD or FABRI_LOAD

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Memory attribute
Description

The amount of total memory (MB) that is currently available in the fabric interconnect.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_MEMORY or TOTAL_MEMO

FI Temperature Statistics attribute group

This attribute group provides details of the fan controller that is used to maintain the temperature of the fabric interconnect.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the FI Temperature Statistics attribute group:

Fabric Interconnect DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric interconnect.

Туре

string Warehouse name

FABRIC_INTERCONNECT_DN or FABRICI_DN

Fabric Interconnect ID attribute

Description

The ID of the fabric interconnect.

Туре

string

Warehouse name

FABRIC_INTERCONNECT_ID or FABRICI_ID

Fan Controller Inlet1 attribute

Description

The current inlet1 value of the fan controller.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FAN_CONTROLLER_INLET1 or FANNINLET1

Fan Controller Inlet2 attribute

Description

The current inlet2 value of the fan controller.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FAN_CONTROLLER_INLET2 or FANCNINLT2

Fan Controller Inlet3 attribute

Description

The current inlet3 value of the fan controller.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated

values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FAN_CONTROLLER_INLET3 or FANCNINLT3

Fan Controller Inlet4 attribute

Description

The current inlet4 value of the fan controller.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FAN_CONTROLLER_INLET4 or FANCTINLT4

Main Board Outlet1 attribute

Description

The current outlet1 value of the main board.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAIN_BOARD_OUTLET1 or MAINBRDLT1

Main Board Outlet2 attribute

Description

The current outlet2 value of the main board.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAIN_BOARD_OUTLET2 or MAINBRDLT2

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PSU Controller Inlet1 attribute

Description

The current inlet1 value of the PSU controller.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PSU_CONTROLLER_INLET1 or PSUCTINLT1

PSU Controller Inlet2 attribute

Description

The current inlet2 value of the PSU controller.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name PSU CONTROLLER INLET2 or PSUCTINLT2 **Timestamp attribute**

Description

The local time at the agent when the data was collected.

Type

string Source

The source for this attribute is the agent.

```
Warehouse name
      TIMESTAMP
```

MAC Pool Details attribute group

This attribute group provides details about the MAC pool.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the MAC Pool Details attribute group:

% Utilization attribute

Description

The percentage of MAC addresses in the pool that are assigned to the vNIC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UTILIZATION or UTILIZTION

Assigned attribute

Description

The number of assigned MAC addresses that are currently not available.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ASSIGNED or ASSDIIGNED

Health attribute

Description

The health status of the MAC pool. The yellow or red color highlighting indicates that a fault is generated in the MAC pool.

Type

string

Warehouse name

HEALTH or HEALTH ATT

MAC Pool DN attribute This attribute is a key attribute.

Description

The distinguished name of the MAC pool.

Type

string

Warehouse name

MAC POOL DN or MACPOOL DN

Name attribute

Description

The name of the MAC pool.

string Warehouse name

NAME or NAMEATRBBT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string

Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Size attribute

Description

The current number of MAC addresses in the pool.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SIZE or SIZE_ATTRB

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the MAC pool.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, so you can see whether the agent is collecting data correctly. Unlike other attribute

groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Performance Object Status attribute group:

Average Collection Duration attribute

Description

The average duration of all data collections of this group in seconds.

Type

real number (32-bit counter) with two decimal places of precision with enumerated values. The following values are defined: NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

AVERAGE_COLLECTION_DURATION or COLAVGD

Cache Hit Percent attribute

Description

The percentage of external data requests for this group that were satisfied from the cache.

Type

real number (32-bit counter) with two decimal places of precision

Warehouse name

CACHE_HIT_PERCENT or CACHPCT

Cache Hits attribute

Description

The number of times an external data request for this group was satisfied from the cache.

Type

integer (32-bit counter)

Warehouse name

CACHE_HITS or CACHEHT

Cache Misses attribute

Description

The number of times an external data request for this group was not available in the cache.

Type

integer (32-bit counter)

Warehouse name

CACHE_MISSES or CACHEMS

Error Code attribute

Description

The error code associated with the query.

Туре

integer with enumerated values. The following values are defined: NO ERROR (0), GENERAL ERROR (1), OBJECT NOT FOUND (2), COUNTER NOT FOUND (3), NAMESPACE ERROR (4), OBJECT CURRENTLY UNAVAILABLE (5), COM LIBRARY INIT FAILURE (6), SECURITY INIT FAILURE (7), PROXY SECURITY FAILURE (9), NO INSTANCES RETURNED (10), ASSOCIATOR QUERY FAILED (11), REFERENCE QUERY FAILED (12), NO RESPONSE RECEIVED (13), CANNOT FIND JOINED QUERY (14), CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15), CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15), CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16), QUERY 1 NOT A SINGLETON (17), QUERY 2 NOT A SINGLETON (18), NO INSTANCES RETURNED IN QUERY 1 (19), NO INSTANCES RETURNED IN QUERY 2 (20), CANNOT FIND ROLLUP QUERY

(21), CANNOT FIND ROLLUP ATTRIBUTE (22), FILE OFFLINE (23), NO HOSTNAME (24), MISSING LIBRARY (25), ATTRIBUTE COUNT MISMATCH (26), ATTRIBUTE NAME MISMATCH (27), COMMON DATA PROVIDER NOT STARTED (28), CALLBACK REGISTRATION ERROR (29), MDL LOAD ERROR (30), AUTHENTICATION FAILED (31), CANNOT RESOLVE HOST NAME (32), SUBNODE UNAVAILABLE (33), SUBNODE NOT FOUND IN CONFIG (34), ATTRIBUTE ERROR (35), CLASSPATH ERROR (36), CONNECTION FAILURE (37), FILTER SYNTAX ERROR (38), FILE NAME MISSING (39), SQL QUERY ERROR (40), SQL FILTER QUERY ERROR (41), SQL DB QUERY ERROR (42), SQL DB FILTER QUERY ERROR (43), PORT OPEN FAILED (44), ACCESS DENIED (45), TIMEOUT (46), NOT IMPLEMENTED (47), REQUESTED A BAD VALUE (48), RESPONSE TOO BIG (49), GENERAL RESPONSE ERROR (50), SCRIPT NONZERO RETURN (51), SCRIPT NOT FOUND (52), SCRIPT LAUNCH ERROR (53), CONF FILE DOES NOT EXIST (54), CONF FILE ACCESS DENIED (55), INVALID CONF FILE (56), EIF INITIALIZATION FAILED (57), CANNOT OPEN FORMAT FILE (58), FORMAT FILE SYNTAX ERROR (59), REMOTE HOST UNAVAILABLE (60), EVENT LOG DOES NOT EXIST (61), PING FILE DOES NOT EXIST (62), NO PING DEVICE FILES (63), PING DEVICE LIST FILE MISSING (64), SNMP MISSING PASSWORD (65), DISABLED (66), URLS FILE NOT FOUND (67), XML PARSE ERROR (68), NOT INITIALIZED (69), ICMP SOCKETS FAILED (70), DUPLICATE CONF FILE (71). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ERROR_CODE or ERRCODE

Intervals Skipped attribute

Description

The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

Type

integer (32-bit counter)

Warehouse name

INTERVALS_SKIPPED or INTSKIP

Last Collection Duration attribute

Description

The duration of the most recently completed data collection of this group in seconds.

Type

real number (32-bit counter) with two decimal places of precision

Warehouse name

LAST_COLLECTION_DURATION or COLDURA

Last Collection Finished attribute

Description

The most recent time a data collection of this group finished.

Type

timestamp with enumerated values. The following values are defined: NOT COLLECTED (069123119000000), NOT COLLECTED (00000000000001). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LAST_COLLECTION_FINISHED or COLFINI

Last Collection Start attribute

Description

The most recent time a data collection of this group started.

Type

timestamp with enumerated values. The following values are defined: NOT

COLLECTED (069123119000000), NOT COLLECTED (00000000000001). Any value that does not have a definition here is displayed in the User Interface Warehouse name LAST_COLLECTION_START or COLSTRT Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Number of Collections attribute Description The number of data collections for this group since the agent started. Type integer (32-bit counter) Warehouse name NUMBER_OF_COLLECTIONS or NUMCOLL **Object Name attribute** Description The name of the performance object. Type string Warehouse name **OBJECT_NAME or OBJNAME Object Status attribute** Description The status of the performance object. Type integer with enumerated values. The following values are defined: ACTIVE (0), INACTIVE (1). Any value that does not have a definition here is displayed in the User Interface Warehouse name **OBJECT_STATUS or OBJSTTS Object Type attribute** Description The type of the performance object. Type integer with enumerated values. The following values are defined: WMI (0), PERFMON (1), WMI ASSOCIATION GROUP (2), JMX (3), SNMP (4), SHELL COMMAND (5), JOINED GROUPS (6), CIMOM (7), CUSTOM (8), ROLLUP DATA (9), WMI REMOTE DATA (10), LOG FILE (11), JDBC (12), CONFIG DISCOVERY (13), NT EVENT LOG (14), FILTER (15), SNMP EVENT (16), PING (17), DIRECTOR DATA (18), DIRECTOR EVENT (19), SSH REMOTE SHELL COMMAND (20). Any value that does not have a definition here is displayed in the User Interface Warehouse name

OBJECT_TYPE or OBJTYPE

Query Name attribute This attribute is a key attribute.

Description

The name of the attribute group.

Туре

Warehouse name **QUERY NAME or ATTRGRP Refresh Interval attribute** Description The interval at which this group is refreshed in seconds. Type integer (32-bit counter) Warehouse name REFRESH_INTERVAL or REFRINT Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Policy BIOS Advanced Configurations attribute group

This attribute group provides advanced configuration details about the basic input/output system (BIOS) policies that are defined in the system. The BIOS policy is a policy that automates the configuration of BIOS settings for a server or group of servers.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy BIOS Advanced Configurations attribute group:

ATS Support attribute

Description

Indicates whether the processor supports Intel VT-d address translation services (ATS).

Туре

string

Warehouse name

VPINTELVTDATSSUPPORT or ATSSUPPORT

BIOS Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the BIOS policy.

Туре

string

Warehouse name

BIOS_POLICY_DN or BIOSPOLDNA

Coherency Support attribute

Description

Indicates whether the processor supports Intel VT-d coherency.

Туре

string

Warehouse name

VPINTELVTDCOHERENCYSUPPORT or COHERNCSUP

Core Multi Processing attribute

Description

Sets the state of logical processor cores in a package. If you disable this setting, hyper-threading is also disabled.

string Warehouse name

VPCOREMULTIPROCESSING or COREMULTPR

CPU Performance attribute

Description

The CPU performance profile for the server.

Type

string Warehouse name

VPCPU

VPCPUPERFORMANCE or CPUPERFATR

Description attribute

Description

The description of the BIOS policy.

Туре

string

Warehouse name

DESCR or BIOSDESCPT

Direct Cache Access attribute

Description

Allows processors to increase I/O performance by placing data from I/O devices directly into the processor cache, which helps to reduce cache misses.

Type

string

Warehouse name

VPDIRECTCACHEACCESS or CASHEACCES

Enhanced Intel Speedstep attribute

Description

Indicates whether the processor uses enhanced Intel Speedstep technology that allows the system to dynamically adjust processor voltage and core frequency.

Туре

string

Warehouse name

VPENHANCEDINTELSPEEDSTEPTECH or SPEEDSTEPT

Execute Disabled Bit attribute

Description

Classifies memory areas on the server to specify where the application code can execute. This setting helps to prevent damage, worm propagation, and certain classes of malicious buffer overflow attacks.

Type

string

Warehouse name

VPEXECUTEDISABLEBIT or EXEDISABLE

Hyper Threading attribute

Description

Indicates whether the processor uses Intel Hyper-Threading technology that allows multithreaded software applications to run parallel threads within each processor.

Туре

string

Warehouse name

VPINTELHYPERTHREADINGTECH or HYPERTHRED

Interrupt Remap attribute

Description

Indicates whether the processor supports Intel VT-d interrupt remapping.

string Warehouse name

VPINTELVTDINTERRUPTREMAPPING or INTRUPTMAP

LV DDR Mode attribute

Description

Indicates whether the system prioritizes low voltage or high frequency memory operations.

Туре

string

Warehouse name

VPLVDDRMODE or LVDDRMODEA

Make Device Non Bootable attribute

Description

Indicates whether the server can boot from a USB device.

Type

string

Warehouse name

VPMAKEDEVICENONBOOTABLE or NONBOOTBLE

Max Memory Below 4G attribute

Description

Indicates whether the BIOS maximizes memory usage below 4 GB for the operating system without the Physical Address Extension (PAE) support, depending on the system configuration.

Type

string

Warehouse name

VPMAXIMUMMEMORYBELOW4GB or MEMBLOW4GB

Memory Mapped IO Above 4Gb Config attribute

Description

Indicates whether to enable or disable memory-mapped I/O of the 64-bit Peripheral Component Interconnect (PCI) devices to 4 GB or greater address space.

Type

string

Warehouse name

VPMEMORYMAPPEDIOABOVE4GB or MMIABOV4GB

Memory RAS Config attribute

Description

Indicates how the memory reliability, availability, and serviceability (RAS) is configured for the server.

Type

string

Warehouse name

VPSELECTMEMORYRASCONFIGURATION or MEMRASCONF

Mirroring Mode attribute

Description

Indicates whether the memory mirroring is used to enhance the system reliability that is done by keeping the two identical data images in the memory.

Type

string

Warehouse name

VPMIRRORINGMODE or MIRRORMODE

Name attribute

Description

The name of the BIOS policy.

string

Warehouse name

NAME or BIOSPOLNAM

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string Source

ource

The source for this attribute is the agent.

Warehouse name

NODE

NUMA attribute

Description

Indicates whether the BIOS supports nonuniform memory access (NUMA).

Туре

string

Warehouse name

VPNUMAOPTIMIZED or NUMAOPTMZD

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string

Warehouse name ORG_ROOT_DN or ORGROOT_DN

Pass Through DMA Support attribute

Description

Indicates whether the processor supports Intel VT-d pass-through direct memory access (DMA).

Type

string

Warehouse name

VPINTELVTDPASSTHROUGHDMASUPPORT or PASSTHRDMA

Processor C3 Report attribute

Description

Indicates whether the processor sends the C3 report to the operating system.

Туре

string

Warehouse name

VPPROCESSORC3REPORT or PROCC3RPOT

Processor C6 Report attribute

Description

Indicates whether the processor sends the C6 report to the operating system.

Туре

string

Warehouse name

VPPROCESSORC6REPORT or PROCC6RPOT

Serial Port A attribute

Description

Indicates whether the serial port A is enabled or disabled.

Туре

string

```
Warehouse name
```

VPSERIALPORTAENABLE or SERLPORTEN

Sparing Mode attribute

Description

Indicates whether sparing optimizes the system reliability by holding the reserve memory that can be used if the dual in-line memory module (DIMM) fails.

Type

string

Warehouse name

VPSPARINGMODE or SPARNGMODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string **Source**

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Turbo Boost attribute

Description

Indicates whether the processor uses the Intel Turbo Boost technology that allows the processor to automatically increase its frequency if the processor is running below power, temperature, or voltage specifications.

Type

string

Warehouse name

VPINTELTURBOBOOSTTECH or TERBOBOOTT

Virtualization Technology (VT) attribute

Description

Indicates whether the processor uses Intel Virtualization technology that allows a platform to run multiple operating systems and applications in independent partitions.

Type

string

Warehouse name

VPINTELVIRTUALIZATIONTECHNOLOGY or VIRTUALIZN

VT For Directed IO attribute

Description

Indicates whether the processor uses Intel Virtualization technology for Directed I/O (VT-d).

Type

string

Warehouse name

VPINTELVTFORDIRECTEDIO or DIRECTD_IO

Policy BIOS Configuration Summary attribute group

This attribute group provides the configuration details about the basic input/output system (BIOS) policies that are defined in the system. The BIOS policy is a policy that automates the configuration of BIOS settings for a server or a group of servers.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy BIOS Configuration Summary attribute group:

ACPI10 Support attribute

Description

Indicates whether the BIOS publishes the Advanced Configuration and Power Interface (ACPI) V1.0 of the Fixed ACPI Description Table (FADT) in the root system description table that is required for compatibility with the OS version that supports ACPI V1.0.

Type

string Warehouse name VPACPI10SUPPORT or ACPISUPPRT

BIOS Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the BIOS policy.

Туре

string

Warehouse name

BIOS_POLICY_DN or BIOSPOLDNA

Description attribute

Description

The description of the BIOS policy.

Type

string

Warehouse name

DESCR or BIOSDESCPT

Front Panel Lockout attribute

Description

Indicates whether the power and reset buttons on the front panel are ignored by the server.

Туре

string Warehouse name

VPFRONTPANELLOCKOUT or FRNTPNLOCK

Name attribute

Description

The name of the BIOS policy.

Туре

string Warehouse name

NAME or BIOSPOLNAM

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string **Source**

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Type

string

Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Post Error Pause attribute

Description

Indicates the BIOS behavior when the server encounters a critical error during POST.

Type

string

Warehouse name

VPPOSTERRORPAUSE or PSTERRPAUS

Quiet Boot attribute

Description

Indicates what the BIOS displays during the power-on self-test (POST).

Туре

string

Warehouse name

VPQUIETBOOT or QUITE_BOOT

Reboot on BIOS Settings Change attribute

Description

Indicates whether the server must be rebooted after a change in the BIOS settings.

Type

string

Warehouse name

REBOOTONUPDATE or REBOOTUPDT

Resume Ac On Power Loss attribute

Description

Indicates how the server behaves when the power is restored after an unexpected power loss.

Type

string Warehouse name

VPRESUMEONACPOWERLOSS or RSMPWRLOSS

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Policy BIOS Configurations attribute group

This attribute group provides the configuration details about the boot options and server management of the basic input/output system (BIOS) policies that are defined in the system.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy BIOS Configurations attribute group:

Assert Nmi On Perr attribute

Description

Indicates whether the BIOS generates a non-maskable interrupt (NMI) and logs an error when a processor bus parity error (PERR) occurs.

Type

string Warehouse name

VPASSERTNMIONPERR or NMION_PERR

Assert Nmi On Serr attribute

Description

Indicates whether the BIOS generates a non-maskable interrupt (NMI) and logs an error when a system error (SERR) occurs.

Туре

string

Warehouse name

VPASSERTNMIONSERR or NMION_SERR

BAUD Rate attribute

Description

Indicates the baud rate that is used for the serial port transmission speed.

Type

string

Warehouse name

VPBAUDRATE or BAUDRATEAT

BIOS Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the BIOS policy.

Type

string

Warehouse name

BIOS_POLICY_DN or BIOSPOLDNA

Boot Option Retry attribute

Description

Indicates whether the BIOS retries non-extensible firmware interface (EFI) based boot options without waiting for the user input.

Туре

string

Warehouse name

VPBOOTOPTIONRETRY or BOOTOPTTRY

Console Redirection attribute

Description

Allows a serial port to be used for console redirection during POST and BIOS booting.

Туре

string

Warehouse name

VPCONSOLEREDIRECTION or CONSOLREDR

Description attribute

Description

The description of the BIOS policy.

Туре

string

Warehouse name

DESCR or BIOSDESCPT

Flow Control attribute

Description

Indicates whether a handshake protocol is used for the flow control.Request to send and clear to send (RTS/CTS) flow control signals help to reduce frame collisions that can be introduced by a hidden terminal problem.

Type

string

Warehouse name

VPFLOWCONTROL or FLOWCONTRL

Intel Entry SAS RAID attribute

Description

Indicates whether the Intel Serial Attached SCSI (SAS) entry Redundant Array of Independent Disks (RAID) module is enabled.

Type

string Warehouse name

VPSASRAID or SASRAIDATR

Intel Entry SAS RAID Module attribute

Description

Indicates how the Intel SAS entry RAID module is configured.

Туре

string Warehouse name

VPSASRAIDMODULE or SASRAIDMOD

Legacy OS Redirect attribute

Description

Indicates whether redirection from a legacy operating system, such as disk operating system (DOS), is enabled on the serial port.

Type

string

Warehouse name

VPLEGACYOSREDIRECTION or LEGACYREDR

Name attribute

Description

The name of the BIOS policy.

Type

string

Warehouse name

NAME or BIOSPOLNAM

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string

Warehouse name

ORG_ROOT_DN or ORGROOT_DN

OS Boot Watchdog Timer attribute

Description

Indicates whether the BIOS programs the watchdog timer with a predefined timeout value.

Type

string Warehouse name VPOSBOOTWATCHDOGTIMERPOLICY or WATCHDOGTR <u>Terminal Type attribute</u> Description

Indicates the type of character formatting that is used for redirecting the console.

Type string Warehouse name VPTERMINALTYPE or TERMNLTYPE Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Policy Boot Configuration Summary attribute group

This attribute group provides the configuration details about the boot policies that are defined in the system.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy Boot Configuration Summary attribute group:

Boot Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the boot policy.

Туре

string Warehouse name BOOT_POLICY_DN or BOOTPLC_DN

Description attribute

Description

The description of the boot policy.

Туре

string Warehouse name

DESCR or DSCRIPTION

Enforce vNIC/vHBA Name attribute

Description

Indicates whether to use the order of the vNICs or vHBAs as shown in the boot order table.

Туре

string

Warehouse name

ENFORCEVNICNAME or ENFRCVNCNM

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN Reboot on Boot Order Change attribute Description Indicates whether the server should reboot after the boot order is changed. Type string Warehouse name **REBOOTONUPDATE or RBTONUPDTE** Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Policy Boot Order Configuration Details attribute group

This attribute group provides the configuration details about the order of the boot policies that are defined in the system.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy Boot Order Configuration Details attribute group:

Boot Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the boot policy.

Type

string

Warehouse name

BOOT_POLICY_DN or ISCSBTPCDN

Component attribute

Description

The component for the order of the boot policy(SAN, LAN, or iSCSI).

Type

string

Warehouse name

COMPONENT or COMPONENTA

Component DN attribute This attribute is a key attribute.

Description

The distinguished name of the component.

Туре

string Warehouse name

COMPONENT_DN or CMPONENTDN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN Parent DN attribute This attribute is a key attribute. Description The distinguished name of the parent of the boot policy. Type string Warehouse name PARENT_DN or PARENTDNAT Target Lun ID attribute Description The LUN identifier of the boot policy. Type string Warehouse name LUN or ISCSIBTLUN Target Type attribute Description The target that corresponds to the location of the boot image. Type string Warehouse name TARGET_TYPE or ISCIBTTYPE Target WWN attribute Description The WWN of the LUN that corresponds to the location of the boot image. Type string Warehouse name WWN or ISCSIBTWWN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The primary or secondary boot order. Type string

Warehouse name TYPE or ISCIBTCTYP

vNIC/vHBA/iSCSI vNIC attribute

Description

The vNIC name of the boot policy.

Туре

string Warehouse name

VNICNAME or ISCSIVNCNM

Policy IPMI Access Profile Configuration Summary attribute group

This attribute group provides the configuration details about the Intelligent Platform Management Interface (IPMI) access profiles that are defined in the system.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy IPMI Access Profile Configuration Summary attribute group:

Description attribute

Description

The description of the IPMI access profile.

Туре

string

Warehouse name DESCR or IPMIDESATR

IPMI Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the IPMI access profile.

Туре

string Warehouse name

IPMI_POLICY_DN or IPMIDNATTR

Name attribute

Description

The name of the IPMI access profile.

Туре

string

Warehouse name

NAME or IPMINAMEAT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent. **Warehouse name**

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Policy IPMI User Configuration Details attribute group

This attribute group provides the configuration details about the users of the Intelligent Platform Management Interface (IPMI) access profile that are defined in the system. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. **Attribute descriptions** The following list contains information about each attribute in the Policy IPMI User Configuration Details attribute group: **Description attribute** Description The description of the IPMI access profile user. Type string Warehouse name DESCR or USERDESATR IPMI Policy DN attribute This attribute is a key attribute. Description The distinguished name of the IPMI access profile. Type string Warehouse name IPMI_POLICY_DN or IPMIDNATTR IPMI User DN attribute This attribute is a key attribute. Description The distinguished name of the IPMI access profile. Type string Warehouse name IPMI_USER_DN or IPMIUSERDN Name attribute Description The name of the IPMI access profile user. Type string Warehouse name NAME or USERNAMEAT Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type

string

Source

The source for this attribute is the agent.

Warehouse name

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Password attribute

Description

Indicates whether the password is set for the user account.

Туре

string

Warehouse name

PWDSET or USERPWDSET

Role attribute

Description

The role of the user (admin or read only).

Type

string

Warehouse name PRIV or USERPRIVAT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

Policy iSCSI Boot Order Configuration Summary attribute group

This attribute group provides the configuration details about the Internet Small Computer Systems Interface (iSCSI) boot order.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy iSCSI Boot Order Configuration Summary attribute group:

Boot Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the boot policy.

Type

string
Warehouse name
BOOT_POLICY_DN or BOOTPLC_DN
iSCSI Boot DN attribute
This attribute is a key attribute.
Description
The distinguished name of the iSCSI boot order.
Type

string Warehouse name ISCSI_BOOT_DN or ISCSIBOTDN Node attribute This attribute is a key attribute.

Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Order attribute Description The order of the iSCSI boot. Type string Warehouse name ORDER or ISCSIORDER ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG ROOT DN or ORGROOT DN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The type of the iSCSI boot order. Type string Warehouse name TYPE or ISCSI_TYPE

Policy iSCSI Static Target Interface Configuration Details attribute group

This attribute group provides the configuration details about the static target for the Internet Small Computer Systems Interface (iSCSI) boot.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy iSCSI Static Target Interface Configuration Details attribute group:

Authentication Profile attribute

Description

The authentication profile name of the iSCSI static target interface.

Туре

string Warehouse name AUTHPROFILENAME or ISCSIAUTPF

iSCSI Boot Static Target DN attribute This attribute is a key attribute. Description The distinguished name of the iSCSI static target interface. Type string Warehouse name ISCSI_BOOT_STATIC_TARGET_DN or ISCSIBTPDN iSCSI IPV4 Address attribute Description The iSCSI IPv4 address of the iSCSI static target interface. Type string Warehouse name IPADDRESS or IPV4ADDIBP LUN ID attribute Description The logical unit number (LUN) identifier of the iSCSI static target interface. Type string Warehouse name ID or ISCIBPLNID Name attribute Description The name of the iSCSI static target interface. Type string Warehouse name NAME or ISCSIVNCNM Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN Parent DN attribute This attribute is a key attribute. Description The distinguished name of the parent iSCSI static target interface. Type string Warehouse name PARENT DN or PARENTDNAT Port attribute Description The port name of the iSCSI static target interface. Type string

Warehouse name PORT or ISCSIBTPRT **Priority attribute** Description The priority of the iSCSI static target interface. Type string Warehouse name PRIORITY or ISCIBTPRTY **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Policy iSCSI vNIC Configuration Summary attribute group This attribute group provides the configuration details about the Internet Small Computer Systems Interface (iSCSI) vNIC. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Policy iSCSI vNIC Configuration Summary attribute group: Authentication Profile attribute Description The authentication profile name of the iSCSI boot parameter. Type string Warehouse name AUTHPROFILENAME or ISCSIAUTPF **Default Gateway attribute** Description The default gateway of the iSCSI initiator. Type string Warehouse name DEFGW or ISCSIDFLTW **DHCP** Vendor Id attribute Description The dynamic host configuration protocol (DHCP) vendor ID of the iSCSI vNIC. Type string Warehouse name DHCPVENDORID or ISCSIDPVID Initiator Name attribute Description The name of the initiator of the iSCSI vNIC. Type string Warehouse name INITIATORNAME or ISCSIVNCIN

IPv4 Address attribute Description The IPv4 address of the iSCSI initiator. Type string Warehouse name ADDR or ISCSIIPNAD iSCSI Adapter Policy attribute Description The iSCSI adapter policy of the iSCSI vNIC. Type string Warehouse name ADAPTORPROFILENAME or ISCSIADPLC iSCSI vNIC DN attribute This attribute is a key attribute. Description The distinguished name of the iSCSI vNIC. Type string Warehouse name ISCSI_VNIC_DN or ISCSINICDN MAC Address attribute Description The MAC address that is associated with the iSCSI vNIC. Type string Warehouse name MAC ADDR or ISCSIVNCAD Name attribute Description The name of the iSCSI vNIC. Type string Warehouse name NAME or ISCSINNAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN Overlay vNIC attribute Description The overlay vNIC that is associated with the iSCSI vNIC. Type string

Warehouse name VNICNAME or ISCSIVNCNM Primary DNS attribute Description The primary DNS of the iSCSI initiator. Type string Warehouse name PRIMDNS or ISCSIBPRMD Secondary DNS attribute Description The secondary DNS of the iSCSI initiator. Type string Warehouse name SECDNS or ISCSIBSECD Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the service profile. Type string Warehouse name SERVICE PROFILE DN or SRVCPRFLDN Subnet Mask attribute Description The subnet mask of the iSCSI initiator. Type string Warehouse name SUBNET or ISCSIBSBNT **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP VLAN attribute Description The VLAN of the iSCSI vNIC. Type string Warehouse name VLANNAME or ISCSI VLAN

Policy LAN Boot Order Configuration Summary attribute group

This attribute group provides the configuration details about the LAN boot order. Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy LAN Boot Order Configuration Summary attribute group:

Boot Policy DN attribute This attribute is a key attribute.

Description The distinguished name of the boot policy. Type string Warehouse name BOOT_POLICY_DN or BOOTPLC_DN LAN Boot DN attribute This attribute is a key attribute. Description The distinguished name of the LAN boot. Type string Warehouse name LAN_BOOT_DN or LANBOOT_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Order attribute Description The boot order in a boot policy. Type string Warehouse name ORDER or LANBTORDER ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The type of the boot device. Type string Warehouse name TYPE or LANBOOTTYP

Policy QoS Configuration Details attribute group

This attribute group provides the configuration details about the QoS policies that are defined in the system. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Policy QoS Configuration Details attribute group: **Burst(Bytes) attribute** Description The normal burst size of the server that uses the policy. Type string Warehouse name BURST or BURST ATTR Host Control attribute Description Indicates whether the Cisco UCS controls the class of service (CoS). Type string Warehouse name HOSTCONTRL or HOSTCNTROL Name attribute Description The name of the QoS definition. Type string Warehouse name NAME or **QOSDEFNAME** Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG ROOT DN or ORGROOT DN **Priority attribute** Description The priority that is assigned to the QoS definition. Type string Warehouse name PRIO or PRIORITYAT QoS Policy DN attribute This attribute is a key attribute. Description The distinguished name of the QoS definition.

string Warehouse name

QOS_POLICY_DN or QOSDEF_DNA

Rate(Kbps) attribute

Description

The expected average rate of the traffic.

Type

string

Warehouse name

RATE or RATE_ATTRB

Timestamp attribute Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Policy Scrub Configuration Details attribute group

This attribute group provides the configuration details about the scrub policies that are defined in the system.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy Scrub Configuration Details attribute group:

BIOS Settings Scrub attribute

Description

The BIOS settings of the server for the scrub policy.

Туре

string

Warehouse name

BIOSSETTINGSSCRUB or SCRBBIOSET

Description attribute

Description

The description of the scrub policy.

Туре

string

Warehouse name

DESCR or SCRUB_DESC

Disk Scrub attribute

Description

The local storage configuration for the scrub policy.

Туре

string

Warehouse name

DISKSCRUB or LDCPRTCCON

Name attribute

Description

The name of the scrub policy.

Туре

Warehouse name NAME or SCRUB NAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG ROOT DN or ORGROOT DN Scrub Policy DN attribute This attribute is a key attribute. Description The distinguished name of the scrub policy. Type string Warehouse name SCRUB_POLICY_DN or SCRUBDNATR **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Policy Serial Over LAN Configuration Details attribute group

This attribute group provides the configuration details about the serial over LAN policies that are defined in the system.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy Serial Over LAN Configuration Details attribute group:

Description attribute

Description

The description of the serial over LAN policy.

Туре

string Warehouse name

DESCR or SOLDESCRPT

Name attribute

Description

The name of the serial over LAN policy.

Туре

Warehouse name NAME or SOLPOLNAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN Serial Over LAN Policy DN attribute This attribute is a key attribute. Description The distinguished name of the serial over LAN policy. Type string Warehouse name SERIAL_OVER_LAN_POLICY_DN or SOLPOLDNAT Serial over LAN State attribute Description The state of the serial over LAN policy. Type string Warehouse name ADMINSTATE or SOLADMINST Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the service profile. Type string Warehouse name SERVICE_PROFILE_DN or SRVCEPL_DN Speed attribute Description The speed of the serial over LAN policy. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name SPEED or SOLSPEEDAT Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent.

Warehouse name TIMESTAMP

Policy Storage Boot Order Configuration Summary attribute group

This attribute group provides the configuration details about the storage boot order. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy Storage Boot Order Configuration Summary attribute group:

Boot Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the boot policy.

Type

string Warehouse name BOOT_POLICY_DN or BOOTPLC_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent. Warehouse name

NODE

Order attribute

Description

The boot order in a boot policy.

Туре

string

Warehouse name

ORDER or SANBTORDER

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string

```
Warehouse name
```

ORG_ROOT_DN or ORGROOT_DN

Storage Boot DN attribute This attribute is a key attribute.

Description

The distinguished name of the storage boot.

Туре

string Warehouse name

STORAGE_BOOT_DN or STRGBTP_DN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Type attribute

Description The type of the boot device.

Туре

string Warehouse name TYPE or LANBOOTTYP

Policy Virtual Host Interface Configuration Details attribute group

This attribute group provides the configuration details about the virtual host interfaces that are configured in the vNIC/vHBA policy.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy Virtual Host Interface Configuration Details attribute group:

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string

Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Selection Preferences attribute

Description

The selection policy that is applied to the associated virtual slot.

Туре

string Warehouse name

SELECT or SELECTATTR

The distinguished name of the vNIC/vHBA placement policy. attribute This attribute is a key attribute.

Description

The distinguished name of the vNIC/vHBA placement policy.

Туре

string

Warehouse name

VNIC_VHBA_PLACEMENT_POLICY_DN or PLACEMNTDN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Transport attribute

Description

The transport protocol of the disk.

Type

string Warehouse name

TRANSPORT or TRANSPORTA

Virtual Host Interface DN attribute This attribute is a key attribute.

Description

The distinguished name of the virtual host interface.

Type

string Warehouse name

VIRTUAL_HOST_INTERFACE_DN or VHOSTIF_DN

Virtual Slot attribute

Description

The ID of the virtual host interface.

Type

string

Warehouse name

ID or VHOSTIF_ID

Policy Virtual Media Boot Order Configuration Details attribute group

This attribute group provides the configuration details about the virtual media boot order. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy Virtual Media Boot Order Configuration Details attribute group:

Boot Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the boot policy.

Type

string Warehouse name

BOOT_POLICY_DN or BOOTPLC_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Order attribute

Description

The boot order in a boot policy.

Type

Warehouse name ORDER or VIRBTORDER ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The type of the boot device. Type string Warehouse name TYPE or VIRBOOTTYP Virtual Media Boot DN attribute This attribute is a key attribute. Description The distinguished name of the virtual media boot. Type string Warehouse name VIRTUAL_MEDIA_BOOT_DN or VIRBOOT_DN

Policy vNICvHBA Placement Configuration Summary attribute group

This attribute group provides the configuration details about the vNIC/vHBA placement policies that are defined in the system. The vNIC/vHBA placement policies are used to assign vNICs or vHBAs to the physical adapters on a server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Policy vNICvHBA Placement Configuration Summary attribute group:

Description attribute

Description

The description of the vNIC/vHBA placement policy.

Туре

string

Warehouse name

DESCR or PLACMNTDES

Name attribute

Description

The name of the vNIC/vHBA placement policy.

Type
Warehouse name NAME or PLACMNTNAM Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP vNIC/vHBA Placement Policy DN attribute This attribute is a key attribute. Description The distinguished name of the vNIC/vHBA placement policy. Type string Warehouse name VNIC_VHBA_PLACEMENT_POLICY_DN or PLACEMNTDN Pool Initiator Configuration Details attribute group This attribute group provides the configuration details about the pool initiator. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions

The following list contains information about each attribute in the Pool Initiator Configuration Details attribute group:

Assigned attribute

Description

Indicates whether WWN initiator block is assigned to a vHBA.

Type

- string
- Warehouse name

ASSIGNED or ASSIGNEDUU

Assigned To attribute

Description

The vHBA to which the WWN initiator block is assigned to.

Type

string

Warehouse name ASSIGNEDTODN or ASSIGNEDTO Boot Target LUN attribute Description The logical unit number (LUN) that corresponds to the location of the boot image. Type string Warehouse name LUN or POOLLUN_ID Boot Target WWPN attribute Description The WWPN that corresponds to the location of the boot image. Type string Warehouse name WWN or POOLWWN ID **ID** attribute Description The ID of the WWN pool. Type string Warehouse name ID or POOLINITID Initiator DN attribute This attribute is a key attribute. Description The distinguished name of the initiator. Type string Warehouse name INITIATOR_DN or INITATORDN Name attribute Description The name of the WWN initiator block. Type string Warehouse name NAME or INITIRNAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN **Timestamp attribute**

Description

The local time at the agent when the data was collected.

Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

WWN Pool DN attribute This attribute is a key attribute.

Description

The distinguished name of the WWN pool.

Туре

string

Warehouse name

WWN_POOL_DN or WWNPOOL_DN

Pool MAC Address Configuration Details attribute group

This attribute group provides the configuration details about the media access control (MAC) address. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Pool MAC Address Configuration Details attribute group:

From attribute

Description

The first MAC address in the block. Type string Warehouse name FROM or MACADDFROM MAC Address DN attribute This attribute is a key attribute. Description The distinguished name of the MAC address. Type string Warehouse name MAC_ADDRESS_DN or MACADDRSDN MAC Pool DN attribute This attribute is a key attribute. Description The distinguished name of the MAC pool. Type string Warehouse name MAC_POOL_DN or MACPOOL_DN Name attribute Description The name of the MAC address block that is defined for this pool. Type string Warehouse name

NAME or MACADDNAME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

To attribute

Description

The last MAC address in the block.

Туре

string

Warehouse name TO or MACADRESTO

Pool MAC Configuration Details attribute group

This attribute group provides the configuration details about the media access control (MAC) pool. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Pool MAC Configuration Details attribute group:

Assigned attribute

Description

Indicates whether the MAC address is assigned to a vNIC.

Туре

string Warehouse name

ASSIGNED or ASSIGNEDUU

Assigned To attribute

Description

The vNIC that the MAC address is assigned to.

Type

string

Warehouse name

ASSIGNEDTODN or ASSIGNEDTO

ID attribute

Description

The ID of the MAC address in the pool.

Type string Warehouse name ID or MACPOOL_ID MAC DN attribute This attribute is a key attribute. Description The distinguished name of the MAC address. Type string Warehouse name MAC_DN or MACATRI_DN MAC Pool DN attribute This attribute is a key attribute. Description The distinguished name of the MAC pool. Type string Warehouse name MAC_POOL_DN or MACPOOL_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN **Poolable attribute** Description The distinguished name of the poolable MAC address. Type string Warehouse name POOLABLEDN or MACPOOLABE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Pool Server Configuration Details attribute group

This attribute group provides the configuration details about the server pool. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Pool Server Configuration Details attribute group:

Assigned attribute

Description

Indicates whether the server is assigned to a service profile.

Type

string

Warehouse name ASSIGNED or ASSIGNEDPL

Assigned To attribute

Description

The service profile that the server is assigned to.

Type

string

Warehouse name

ASSIGNEDTODN or ASSIGNEDTO

Chassis ID attribute

Description

The ID of the chassis.

Type

string

Warehouse name

CHASSISID or CHASSIS_ID

Name attribute

Description

The name of a server in the server pool.

Туре

string

Warehouse name NAME or SRVRPLNAME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string

Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Rack ID attribute

Description

The ID of the rack-mount server.

Type

string

Warehouse name

ID or POOLRACKID

Server DN attribute This attribute is a key attribute.

Description The distinguished name of the server pool. Type string Warehouse name SERVER_DN or SERVERC_DN Server Pool DN attribute This attribute is a key attribute. Description The distinguished name of the server pool. Type string Warehouse name SERVER_POOL_DN or SRVRPOOLDN Slot ID attribute Description The slot ID of the server. Type string Warehouse name SLOTID or POOLSLOTID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Pool UUID Block Configuration Details attribute group

This attribute group provides the configuration details about the universally unique identifier (UUID)

block. Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Pool UUID Block Configuration Details attribute group:

From attribute

Description

The first UUID in the block.

Туре

string Warehouse name

FROM or UUIDBKFROM

Name attribute

Description

The name of the block.

Туре

string

Warehouse name

NAME or UUIDBKNAME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source ____

The source for this attribute is the agent.

Warehouse name NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Type

string

Warehouse name ORG_ROOT_DN or ORGROOT_DN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source The source for this attribute is the agent.

Warehouse name

TIMESTAMP

To attribute

Description

The last UUID in the block.

Туре

string Warehouse name

TO or UUIDBLCKTO

UUID Block DN attribute This attribute is a key attribute.

Description

The distinguished name of the UUID block.

Туре

string Warehouse name

UUID_BLOCK_DN or UUIDBLCKDN

UUID Suffix Pool DN attribute This attribute is a key attribute.

Description

The distinguished name of the UUID suffix pool.

Type

string

Warehouse name

UUID_SUFFIX_POOL_DN or UIDSFXPLDN

Pool UUID Suffix Configuration Details attribute group

This attribute group provides the configuration details about the universally unique identifier (UUID) suffix.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Pool UUID Suffix Configuration Details attribute group:

Assigned attribute

Description

Indicates whether the UUID is assigned to a service profile.

Type string Warehouse name ASSIGNED or ASSIGNEDUU Assigned To attribute Description The service profile that the UUID is assigned to. Type string Warehouse name ASSIGNEDTODN or ASSIGNEDTO Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN **Prev Assigned To attribute** Description The service profile that the UUID was previously assigned to. Type string Warehouse name PREVASSIGNEDTODN or PRVASGNDTO **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **UUID Suffix attribute** Description The ID of the UUID suffix. Type string Warehouse name ID or POOLSLOTID UUID Suffix DN attribute This attribute is a key attribute. Description The distinguished name of the UUID suffix. Type string

Warehouse name UUID_SUFFIX_DN or UUIDSFIXDN UUID Suffix Pool DN attribute This attribute is a key attribute.

Description

The distinguished name of the UUID suffix pool.

Туре

string Warehouse name

UUID_SUFFIX_POOL_DN or UIDSFXPLDN

Pool WWN Initiator Block Configuration Details attribute group

This attribute group provides the configuration details about the World Wide Name (WWN) initiator block.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Pool WWN Initiator Block Configuration Details attribute group:

From attribute

Description

The first WWN in the block.

Туре

string Warehouse name

FROM or WWNIBKFROM

Name attribute

Description

The name of the WWN initiator block.

Туре

string Warehouse name

NAME or WWNIBKNAME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string

Warehouse name ORG_ROOT_DN or ORGROOT_DN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP To attribute Description The last WWN in the block. Type string Warehouse name TO or WWNINITBKT WWN Initiator Block Pool DN attribute This attribute is a key attribute. Description The distinguished name of the WWN initiator block. Type string Warehouse name WWN_INITIATOR_BLOCK_POOL_DN or WWNINTBKDN WWN Pool DN attribute This attribute is a key attribute. Description The distinguished name of the WWN pool. Type string Warehouse name WWN POOL DN or WWNPOOL DN

RM Server Adapter Configuration attribute group

This attribute group provides the configuration details about the rack-mount server adapter. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Adapter Configuration attribute group:

Adapter DN attribute This attribute is a key attribute.

Description The distinguished name of the adapter.

Туре

string Warehouse name

ADAPTER_DN

Adapter ID attribute

Description

The ID of the adapter.

Type

string Warehouse name

ADAPTER ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string Source

The source for this attribute is the agent.

Warehouse name

NODE

```
PCI Slot attribute
```

Description

The current PCI slot of the adapter.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PCISLOT or IC_PCISLOT

PID attribute

Description

The model number of the adapter.

Type

string

Warehouse name

MODEL or BNIC_MODEL

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Type

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Type

string Warehouse name

RACK_MOUNT_SERVER_ID or RACKMNT_ID

Revision attribute

Description

The current revision number of the adapter.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or NIREVISION

Serial Number (SN) attribute

Description

The serial number of the adapter.

Туре

string

Warehouse name

SERIAL or ICD_SERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the adapter.

Type string

Warehouse name

VENDOR or ICD_VENDOR

RM Server Adapter Health Summary attribute group

This attribute group provides a health summary of the rack-mount server adapter. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Adapter Health Summary attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server adapter.

Туре

string

Warehouse name

ADAPTER_DN or ADAPTOR_DN

Adapter ID attribute

Description

The current ID of the rack-mount server adapter.

Туре

string

Warehouse name

ADAPTER_ID or ADAPTOR_ID

Health attribute

Description

The health status of the rack-mount server adapter. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server adapter or its subcomponents.

Type

string

Warehouse name

HEALTH or RKMTHEALTH

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Operability attribute

Description

The operability status of the adapter.

Type

string

Warehouse name

OPERABILITY or OPERABILTY

Rack Mount Server DN attribute This attribute is a key attribute.

Description The distinguished name of the rack-mount server. Type

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Thermal attribute

Description

The thermal status of the adapter.

Туре

string

Warehouse name

THERMAL or MTHTHERMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server adapter and its subcomponents.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

RM Server BIOS Firmware attribute group

This attribute group provides firmware details of the rack-mount server basic input/output system (BIOS).

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server BIOS Firmware attribute group:

BIOS Dn attribute

Description

The distinguished name of the rack-mount server BIOS.

Туре

string Warehouse name

BIOS_DN or RKMBIOS_DN

Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Package Version attribute Description The version of the BIOS package that is used by the rack-mount server. Type string Warehouse name PACKAGE_VERSION or PCKGVRSION Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Vendor attribute Description The vendor name of the rack-mount server. Type string Warehouse name VENDOR or RKMTVENDOR Version attribute Description The version of the rack-mount server. Type string Warehouse name VERSION or RKMVERSION

RM Server Configuration Details attribute group

This attribute group provides the configuration details of the rack-mount server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Configuration Details attribute group:

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name NODE

PID attribute

Description

The model number of the rack-mount server.

Туре

string

Warehouse name

MODEL or BLDSER_PID

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Type

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RACKMNT_ID

Revision attribute

Description

The revision number of the rack-mount server.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or BSREVISION

Serial Number attribute

Description

The serial number of the rack-mount server.

Type

string Warehouse name SERIAL or BLSRSERIAL Service Profile attribute Description The service profile that the server is assigned to. Type

string

Warehouse name

ASSIGNED_TO or ASSIFNEDTO

Slot ID attribute

Description

The slot ID of the blade server.

Туре

string Warehouse name

SLOT_ID or RM_CSLOTID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source The source for this attribute is the agent.

Warehouse name

TIMESTAMP

UUID attribute

Description

The Universal Unique Identifier (UUID) of the rack-mount server.

Туре

string Warehouse name

UUID or RKMNT_UUID

Vendor attribute

Description

The vendor name of the rack-mount server.

Туре

string

Warehouse name

VENDOR or MBR_VENDOR

RM Server CPU Configuration attribute group

This attribute group provides the configuration details of the rack-mount server CPU. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server CPU Configuration attribute group:

CPU DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server CPU.

Туре

string

Warehouse name CPU_DN or RKMTCPU_DN

CPU ID attribute

Description

The ID of the rack-mount server CPU.

Type

string Warehouse name

CPU_ID or RKMTCPU_ID

CPU Stepping attribute

Description

The current CPU stepping number of the rack-mount server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

STEPPING or CPUSTEPING

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Туре

string

Warehouse name

MOTHERBOARD_DN or MRBOARD_DN

No of Enabled Cores attribute

Description

The number of enabled cores in the rack-mount server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CORES_ENABLED or CORESENABL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Number of Cores attribute

Description

The current number of cores in the rack-mount server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

NUMBER_OF_CORES or CPU_CORESS

PID attribute

Description

The model number of the rack-mount server CPU.

Type

string

Warehouse name

MODEL or MEMARMODEL

Processor Architecture attribute

Description The processor architecture of the rack-mount server CPU. Type string Warehouse name PROCESSOR ARCHITECTURE or PROCARCHIT Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RACKMNT_ID **Revision attribute** Description The revision number of the rack-mount server CPU. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name **REVISION or MUREVISION** Serial Number (SN) attribute Description The serial number of the rack-mount server CPU. Type string Warehouse name SERIAL or MEMUSERIAL Socket Name attribute Description The socket name of the rack-mount server CPU. Type string Warehouse name SOCKET_DESIGNATION or SOCKETDESI Speed (GHz) attribute Description The speed (in GHz) of the rack-mount server CPU. Type real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name SPEED or BSCPUSPEED Threads attribute

Description

The current number of threads in the rack-mount server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREADS or CPUTHREADS

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the rack-mount server CPU.

Type

string

Warehouse name

VENDOR or MAR_VENDOR

RM Server CPU Health Summary attribute group

This attribute group provides a health summary of the rack-mount server CPU.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server CPU Health Summary attribute group:

CPU DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server CPU.

Туре

string Warehouse name

CPU_DN or RKMTCPU_DN

CPU ID attribute

Description

The ID of the rack-mount server CPU.

Туре

string

Warehouse name

CPU_ID or RKMTCPU_ID

Health attribute

Description

The health status of the rack-mount server CPU. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server CPU.

Туре

string Warehouse name

HEALTH or RKMTHEALTH

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Type string Warehouse name MOTHERBOARD_DN or MOTHBRD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Туре string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the rack-mount server CPU. Type string Warehouse name **OPERABILITY or OPERABILTY Power attribute** Description The power status of the rack-mount server CPU. Type string Warehouse name POWER or MTHBRDPOWR **Presence** attribute Description The presence status of rack-mount server CPU. Type string Warehouse name PRESENCE or MBPRESENCE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN Rack Mount Server ID attribute Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Thermal attribute Description The thermal status of the rack-mount server CPU. Type string Warehouse name THERMAL or MTHTHERMAL Timestamp attribute

Description

The local time at the agent when the data was collected.

Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

RM Server CPU Statistics attribute group

This attribute group provides statistics of the rack-mount server CPU environment.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server CPU Statistics attribute group:

CPU DN attribute This attribute is a key attribute.

Description

The distinguished name of the CPU.

Туре

string Warehouse name

CPU_DN or RKMTCPU_DN

CPU Environment Stats DN attribute

Description

The distinguished name of the CPU environment statistics.

Туре

string

Warehouse name

CPU_ENVIRONMENT_STATS_DN or CPUENST_DN

CPU ID attribute

Description

The current ID of the CPU.

Туре

string

Warehouse name

CPU_ID or RKMTCPU_ID

CPU Temperature (C) attribute

Description

The current temperature (in Celsius) of the CPU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name TEMPERATURE or TEMPERATRE

Input Current (A) attribute

Description

The current value of the input current (in amperes) of the CPU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_CURRENT or INPUTCURNT

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Туре

string

Warehouse name

MOTHERBOARD_DN or MTHRBRD_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string

```
Warehouse name
```

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

RM Server DCE Interface Health attribute group

This attribute group provides a health summary of the rack-mount server data communications equipment (DCE) interface.

Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the RM Server DCE Interface Health attribute group: Adapter DN attribute This attribute is a key attribute. Description The distinguished name of the adapter. Type string Warehouse name ADAPTER_DN or ADAPTOR_DN Adapter ID attribute Description The current ID of the adapter. Туре string Warehouse name ADAPTER ID or ADAPTOR ID DCE Interface DN attribute This attribute is a key attribute. Description The distinguished name of the DCE interface. Type string Warehouse name DCE_INTERFACE_DN or DCE_INT_DN DCE Interface ID attribute Description The ID of the DCE interface. Type string Warehouse name DCE_INTERFACE_ID or DCE_INT_ID Fabric Interconnect ID attribute Description The fabric interconnect ID of the rack-mount server DCE interface. Type string Warehouse name SWITCHID or RCM_FABRIC Health attribute Description The health status of the DCE interface. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server DCE interface. Type string Warehouse name HEALTH or RKMTHEALTH IO Module Port attribute This attribute is a key attribute. Description The path to the associated DCE interface. Type string Warehouse name PEERDN or DCE PEERDN MAC attribute This attribute is a key attribute.

Description The media access control (MAC) of the rack-mount server DCE interface. Type string Warehouse name MAC or DCE INTMAC Name attribute This attribute is a key attribute. Description The name of the DCE interface. Type string Warehouse name NAME or DCEIN_NAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Purpose attribute This attribute is a key attribute. Description The purpose of the rack-mount server DCE interface. Type string Warehouse name PURPOSE or DCEPURPOSE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Side attribute Description The side of the DCE interface. Type string Warehouse name SIDE or DCEINTSIDE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server DCE interface.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

Type attribute This attribute is a key attribute.

Description

The type of the DCE interface. The valid values are Physical and Virtual.

Type

string

Warehouse name TYPE or DCEIN_TYPE

RM Server Disk Configuration attribute group

This attribute group provides the configuration details of the rack-mount server disk.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Disk Configuration attribute group:

Block Size (Bytes) attribute

Description

The block size (in bytes) of the disk.

Type

string Warehouse name

BLOCK_SIZE

Connection Protocol attribute

Description

The connection protocol of the disk.

Type

string

Warehouse name

CONNECTION_PROTOCOL or CONPROTOCL

Disk DN attribute This attribute is a key attribute.

Description

The distinguished name of the disk.

Type

string Warehouse name

DISK DN or BLDDISK DN

Disk ID attribute

Description

The current ID of the disk.

Type

Warehouse name DISK ID or BLDDISK ID Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Number of Blocks attribute Description The current number of blocks in the disk. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name NUMBER_OF_BLOCKS or NUM_BLOCKS **PID** attribute Description The model number of the disk. Type string Warehouse name MODEL or MEMARMODEL Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RACKMNT_ID **Revision attribute** Description The current revision number of the disk. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name **REVISION or MUREVISION** Serial Number (SN) attribute Description The serial number of the disk. Type string Warehouse name SERIAL or MEMUSERIAL Size (MB) attribute Description The size (in MB) of the disk. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name SIZE or BSDISKSIZE Storage Controller DN attribute This attribute is a key attribute. Description The distinguished name of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_DN or STORCON_DN Storage Controller ID attribute Description The ID of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_ID or STORCON_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Vendor attribute Description The vendor name of the disk. Type string Warehouse name VENDOR or MAR_VENDOR RM Server Disk Health Summary attribute group

This attribute group provides a health summary of the rack-mount server disk. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Disk Health Summary attribute group:

Disk Dn attribute

Description

The distinguished name of the rack-mount server disk.

Type

string Warehouse name

DISK_DN or RKMTDSK_DN

Disk Id attribute

Description

The current ID of the rack-mount server disk.

Type

string

Warehouse name

DISK_ID or RKMTDSK_ID

Health attribute

Description

The health status of the rack-mount server disk. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server disk.

Type

string

Warehouse name

HEALTH or RKMTHEALTH

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Type

string

Warehouse name

MOTHERBOARD_DN or MOTHBRD_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Operability attribute

Description

The operability status of the disk.

Туре

string

```
Warehouse name
```

OPERABILITY or OPERABILTY

Presence attribute

Description

The presence status of the disk.

Type

string

Warehouse name

PRESENCE or RMPRESENCE

Rack Mount Server DN attribute This attribute is a key attribute.

Description The distinguished name of the rack-mount server. Type

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Type

string Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server disk.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

RM Server Ether Port Comm attribute group

This attribute group provides statistics about the packets that are transmitted and received by the rack-mount server Ethernet port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Ether Port Comm attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Туре

string Warehouse name ADAPTER DN

Adapter ID attribute

Description

The current ID of the adapter.

Туре

string Warehouse name ADAPTER_ID

Adapter Type attribute

Description

The type of adapter.

Туре

string

Warehouse name

ADAPTER_TYPE or ADAPTRTYPE

Broadcast (packets) attribute

Description

The delta number of broadcast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BROADCAST_PACKETS_DELTA or BRDCSTPKTS

Card DN attribute This attribute is a key attribute.

Description

The distinguished name of the card.

Туре

string

Warehouse name

CARD_DN or RMSCARD_DN

Card ID attribute

Description

The ID of the card.

Туре

string

Warehouse name

CARD_ID or RMSCARD_ID

Ether Port Mcast Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the Ethernet port multicast statistics.

Type

string

Warehouse name

ETHER_PORT_MCAST_STATS_DN or RMHPOMC_DN

Multicast (packets) attribute

Description

The delta number of multicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MULTICAST_PACKETS_DELTA or MLTCSTPKTS

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Rack Mount Server DN attribute This attribute is a key attribute.

Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Timestamp attribute Description The local time at the agent when the data was collected. Type string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Traffic Direction attribute

Description

The direction of the communication traffic at the port.

Туре

string

Warehouse name

TRAFFIC_DIRECTION or TRAFCDIRET

Unicast (packets) attribute

Description

The delta number of unicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNICAST_PACKETS_DELTA or UNICSTPKTS

RM Server Ether Port Error attribute group

This attribute group provides the error statistics of the rack-mount server Ethernet port. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Ether Port Error attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Type

string Warehouse name ADAPTER_DN Adapter ID attribute

Description

The current ID of the adapter.

Type string

Warehouse name

ADAPTER ID

Adapter Type attribute

Description

The type of adapter.

Туре

string Warehouse name

ADAPTER_TYPE or ADAPTRTYPE

Bad CRC (packets) attribute

Description

The delta number of received packets that did not pass the cyclic redundancy check (CRC).

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BAD_CRC_PACKETS_DELTA or BADCRCPKTS

Bad Length (packets) attribute

Description

The delta number of received packets whose size do not match the original size when they were sent by the server.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BAD_LENGTH_PACKETS_DELTA or BADLENGPKT

Card DN attribute This attribute is a key attribute.

Description

The distinguished name of the card.

Туре

string Warehouse name

CARD_DN or RMSCARD_DN

Card ID attribute

Description

The ID of the card.

Type

string

Warehouse name

CARD_ID or RMSCARD_ID

Ether Port Error Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the error port statistics.

Type

string

Warehouse name

ETHER_PORT_ERROR_STATS_DN or ETHPOER_DN MAC Discarded (packets) attribute

Description

The delta number of MAC packets that are discarded at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAC_DISCARD_PACKETS_DELTA or MACDISCPKT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source _

The source for this attribute is the agent.

Warehouse name

NODE

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source The source for this attrik

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Traffic Direction attribute

Description

The direction of the communication traffic at the port.

Туре

string

Warehouse name

TRAFFIC_DIRECTION or TRAFCDIRET

RM Server Ether Port Large attribute group

This attribute group provides statistics of the large packets that are received at the rack-mount server Ethernet port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Ether Port Large attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Туре

string Warehouse name

ADAPTER_DN

Adapter ID attribute

Description

The current ID of the adapter.

Туре

string

Warehouse name

ADAPTER_ID

Adapter Type attribute

Description

The type of adapter.

Туре

string

Warehouse name

ADAPTER_TYPE or ADAPTRTYPE

Card DN attribute This attribute is a key attribute.

Description

The distinguished name of the card.

Туре

string Warehouse name

CARD_DN or RMSCARD_DN

Card ID attribute

Description

The ID of the card.

Туре

string

Warehouse name CARD_ID or RMSCARD_ID

Ether Port Large Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the large port statistics.

Туре

string

Warehouse name

ETHER_PORT_LARGE_STATS_DN or ETHPOLG_DN

Greater than or equal to 9216 (packets) attribute

Description

The delta number of received packets whose size is greater than or equal to 9216 packets.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

GREATER_THAN_OR_EQUALTO_9216_DELTA or GREQ9216DL Less than 2048 (packets) attribute

Description

The delta number of received packets whose size is less than 2048 packets.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_2048_DELTA or LSTN2048DL

Less than 4096 (packets) attribute

Description

The delta number of received packets whose size is greater than 2048 packets but less than 4096 packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_4096_DELTA or LSTN4096DL

Less than 8192 (packets) attribute

Description

The delta number of received packets whose size is greater than 4096 packets but less than 8192 packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_8192_DELTA or LSTN8192DL

Less than 9216 (packets) attribute

Description

The delta number of received packets whose size is greater than 8192 packets but less than 9216 packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_9216_DELTA or LSTN9216DL

Less Than or Equal To 1518 (packets) attribute

Description

The delta number of received packets whose size is less than or equal to 1518 packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_OR_EQUALTO_1518_DELTA or LSTN1518DL

No breakdown greater than 1518 (packets) attribute

Description

The delta number of packets whose size is greater than 1518 but are transmitted with zero errors.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface
Warehouse name NO BREAKDOWN GREATERTHAN 1518 DELTA or NBGT1518DL Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Traffic Direction attribute** Description The direction of the communication traffic at the port. Type string Warehouse name TRAFFIC_DIRECTION or TRAFCDIRET RM Server Ether Port Outsized attribute group

This attribute group provides statistics of the undersized and oversized packets that are received at the the rack-mount server Ethernet port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Ether Port Outsized attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Туре

string

Warehouse name ADAPTER DN Adapter ID attribute Description The current ID of the adapter. Type string Warehouse name ADAPTER_ID Adapter Type attribute Description The type of adapter. Type string Warehouse name ADAPTER_TYPE or ADAPTRTYPE Card DN attribute This attribute is a key attribute. Description The distinguished name of the card. Type string Warehouse name CARD_DN or RMSCARD_DN Card ID attribute Description The ID of the card. Type string Warehouse name CARD ID or RMSCARD ID Ether Port Outsized Stats DN attribute This attribute is a key attribute. Description The distinguished name of the Ethernet port outsized statistics. Type string Warehouse name ETHER_PORT_OUTSIZED_STATS_DN or ETHPOOS_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Oversized** (packets) attribute Description The delta number of oversized packets that are received by the port. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name OVERSIZED_PACKETS_DELTA or OVRSIZPKTS Oversized bad CRC (packets) attribute

The delta number of received oversized packets that did not pass the CRC.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OVERSIZED_BAD_CRC_PACKETS_DELTA or OVRSBADPKT

Oversized good CRC (packets) attribute

Description

The delta number of received oversized packets that passed the CRC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OVERSIZED_GOOD_CRC_PACKETS_DELTA or OVRSGUDPKT

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Traffic Direction attribute

Description

The direction of the communication traffic at the port.

Туре

string Warehouse name

TRAFFIC_DIRECTION or TRAFCDIRET

Undersized bad CRC (packets) attribute

Description

The delta number of received undersized packets that did not pass the CRC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNDERSIZED_BAD_CRC_PACKETS_DELTA or UNDSBADPKT

Undersized good CRC (packets) attribute

Description

The delta number of received undersized packets that passed the CRC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNDERSIZED_GOOD_CRC_PACKETS_DELTA or UNDSGUDPKT

RM Server Ether Port Packets attribute group

This attribute group provides statistics about the packets that are transmitted through the rack-mount server Ethernet port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Ether Port Packets attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Туре

string Warehouse name

ADAPTER_DN

Adapter ID attribute

Description

The current ID of the adapter.

Type

string Warehouse name

ADAPTER_ID

Adapter Type attribute

Description The type of adapter.

Type

string

Warehouse name

ADAPTER_TYPE or ADAPTRTYPE

Card DN attribute This attribute is a key attribute.

Description

The distinguished name of the card.

Туре

string Warehouse name

CARD_DN or RMSCARD_DN

Card ID attribute

Description

The ID of the card.

Type

string Warehouse name

CARD_ID or RMSCARD_ID

Ether Port Packets Stats DN attribute This attribute is a key attribute.

The distinguished name of the Ethernet port packets statistics.

Type string

Warehouse name

ETHER_PORT_PACKETS_STATS_DN or ETHPOPK_DN

Good (packets) attribute

Description

The delta number of transmitted packets that contain zero errors.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

GOOD_PACKETS_DELTA or GUDPKTSDEL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Pause (packets) attribute

Description

The delta number of pauses that occurred while transmitting the packets through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PAUSE_PACKETS_DELTA or PAUPKTSDEL

Per priority (packets) attribute

Description

The delta number of packets that are transmitted by the Per Priority (PP) mechanism.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PER_PRIORITY_PAUSE_PACKETS_DELTA or PPERPKTDEL

PPP (packets) attribute

Description

The delta number of pauses that occurred on the Per Priority Pause (PPP) mechanism while transmitting the packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PPP_PACKETS_DELTA or PPPPKTSDEL

Rack Mount Server DN attribute This attribute is a key attribute.

The distinguished name of the rack-mount server.

Type string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total (packets) attribute

Description

The delta number of total packets that are currently transmitted through the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_PACKETS_DELTA or TTLPKTSDEL

Traffic Direction attribute

Description

The direction of the communication traffic at the port.

Туре

string

Warehouse name

TRAFFIC_DIRECTION or TRAFCDIRET

VLAN (packets) attribute

Description

The delta number of Virtual Local Area Network (VLAN) packets that are currently transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

VLAN_PACKETS_DELTA or VLANPKTDEL

RM Server Ether Port Small attribute group

This attribute group provides statistics of the small packets that are transmitted through the rack-mount server Ethernet port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Ether Port Small attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Туре

string Warehouse name

ADAPTER_DN

Adapter ID attribute

Description

The current ID of the adapter.

Туре

string

Warehouse name

ADAPTER_ID

Adapter Type attribute

Description

The type of adapter.

Type

string

Warehouse name

ADAPTER_TYPE or ADAPTRTYPE

Card DN attribute This attribute is a key attribute.

Description

The distinguished name of the card.

Туре

string Warehouse name

CARD_DN or RMSCARD_DN

Card ID attribute

Description

The ID of the card.

Туре

string Warehouse name

CARD_ID or RMSCARD_ID

Equal to 64 (packets) attribute

Description

The delta number of transmitted packets whose size is equal to 64 bytes.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

EQUALTO_64_DELTA or EQTO64DELT

Ether Port Small Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the small port statistics.

Type

string

Warehouse name

ETHER_PORT_SMALL_STATS_DN or ETHPOSM_DN

Less than 1024 (packets) attribute

The delta number of transmitted packets whose size is less than 1024 bytes.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_1024_DELTA or LSTN1024DL

Less than 128 (packets) attribute

Description

The delta number of transmitted packets whose size is less than 128 bytes.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_128_DELTA or LSTN128DEL

Less than 256 (packets) attribute

Description

The delta number of transmitted packets whose size is greater than 128 bytes but less than 256 bytes.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_256_DELTA or LSTN256DEL

Less than 512 (packets) attribute

Description

The delta number of transmitted packets whose size is greater than 256 bytes but less than 512 bytes.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_512_DELTA or LSTN512DEL

Less than 64 (packets) attribute

Description

The delta number of transmitted packets whose size is less than 64 bytes.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_64_DELTA or LSTN64DLTA

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Rack Mount Server DN attribute This attribute is a key attribute.

Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Traffic Direction attribute** Description The direction of the communication traffic at the port. Type string Warehouse name TRAFFIC DIRECTION or TRAFCDIRET

RM Server Fan Configuration attribute group

This attribute group provides the configuration details of the rack-mount server fan.
Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.
Attribute descriptions
The following list contains information about each attribute in the RM Server Fan Configuration
attribute group:
Fan DN attribute This attribute is a key attribute.
Description
The distinguished name of the rack-mount server fan.
Type
string
Warehouse name

FAN_DN or RMSVFAN_DN

Fan ID attribute

Description

The current ID of the rack-mount server fan.

Type

string

Warehouse name

FAN_ID or RMSVFAN_ID

Fan Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server fan module.

Type string Warehouse name FAN_MODULE_DN or FMODULE_DN Fan Module ID attribute Description The ID of the rack-mount server fan module. Type string Warehouse name FAN_MODULE_ID or FMODULE_ID Module attribute Description The module number of the rack-mount server fan. Type string Warehouse name MODULE or MODULEFFAN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **PID** attribute Description The model number of the rack-mount server fan. Type string Warehouse name MODEL or MODELOFFAN Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RACKMNT_ID **Revision attribute** Description The current revision number of the rack-mount server fan. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name REVISION or REVISINFAN Serial Number(SN) attribute

Description

The serial number of the rack-mount server fan.

Туре

string Warehouse name

SERIAL or SERIALOFAN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the rack-mount server fan.

Туре

string

Warehouse name

VENDOR or VENDOROFAN

RM Server Fan Health Summary attribute group

This attribute group provides a health summary of the rack-mount server fan. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Fan Health Summary attribute group:

Fan DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server fan.

Туре

string Warehouse name

FAN_DN or RKMTFAN_DN

Fan ID attribute

Description

The ID of the rack-mount server fan.

Туре

string Warehouse name

FAN ID or RKMTFAN ID

Fan Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fan module.

Туре

string Warehouse name FAN_MODULE_DN or FANMODL_DN

Fan Module ID attribute

Description The ID of the fan module. Type string Warehouse name FAN_MODULE_ID or FANMODL_ID Health attribute Description The health status of the rack-mount server fan. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server fan. Type string Warehouse name HEALTH or RKMTHEALTH Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the fan. Type string Warehouse name **OPERABILITY or OPERABILTY Overall Status attribute** Description The overall status of the fan. Type string Warehouse name OPERSTATE or OPER_STATE **Performance attribute** Description The performance status of the fan. Type string Warehouse name PERF or PERFORMANC **Power attribute** Description The power status of the fan. Type string Warehouse name POWER or MTHBRDPOWR **Presence** attribute Description The presence status of the fan. Type string

Warehouse name PRESENCE or MBPRESENCE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Thermal attribute Description The thermal status of the fan. Type string Warehouse name THERMAL or MTHTHERMAL **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the rack-mount server fan. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name TOTAL_FAULTS or RKMTFAULTS Voltage attribute Description The voltage status of the fan. Type

string Warehouse name VOLTAGE or MTHVOLTAGE

RM Server Fan Module Details attribute group

This attribute group provides the configuration details of the rack-mount server fan module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Fan Module Details attribute group:

Fan Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server fan module.

Type

string

Warehouse name

FAN_MODULE_DN or FMODULE_DN

Fan Module ID attribute

Description

The ID of the rack-mount server fan module.

Type

string

Warehouse name

FAN_MODULE_ID or FMODULE_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the rack-mount server fan module.

Type

string

Warehouse name

MODEL or MODELOFFAN

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Туре

string Warehouse name

alenouse n

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RACKMNT_ID

Revision attribute

Description

The current revision number of the rack-mount server fan module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or REVISINFAN

Serial Number(SN) attribute

Description

The serial number of the rack-mount server fan module.

Type

string Warehouse name

SERIAL or SERIALOFAN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

```
Warehouse name
```

TIMESTAMP

Tray attribute

Description

The current tray number of the rack-mount server fan module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TRAY or TRAYOFFANM

Vendor attribute

Description

The vendor name of the rack-mount server fan module.

Type

string

Warehouse name

VENDOR or VENDOROFAN

RM Server Fan Module Health attribute group

This attribute group provides a health summary of the rack-mount server fan module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Fan Module Health attribute group:

Fan Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server fan module.

Type string

Warehouse name

FAN_MODULE_DN or FANMODL_DN

Fan Module ID attribute

Description

The ID of the rack-mount server fan module.

Туре

string Warehouse name

FAN_MODULE_ID or FANMODL_ID

Health attribute

The health status of the fan module. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server fan module.

Type

string Warehouse name

HEALTH or RKMTHEALTH

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Operability attribute

Description

The operability status of the rack-mount server fan module.

Type

string

Warehouse name

OPERABILITY or OPERABILTY

Overall Status attribute

Description

The overall status of the rack-mount server fan module.

Type

string Warehouse name

OPERSTATE or OPER_STATE

Performance attribute

Description

The performance status of the fan module.

Type

string Warehouse name

PERF or PERFORMANC

Power attribute

Description

The power status of the fan module.

Type

string

Warehouse name

POWER or MTHBRDPOWR

Presence attribute

Description

The presence status of the fan module.

Type

string Warehouse name

DECENICE - DMDDECEN

PRESENCE or RMPRESENCE

Rack Mount Server DN attribute This attribute is a key attribute.

Description

Type

The distinguished name of the rack-mount server module.

string

Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN Rack Mount Server ID attribute Description

The ID of the rack-mount server module.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Thermal attribute

Description

The thermal status of the fan module.

Туре

string

Warehouse name

THERMAL or MTHTHERMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server fan module.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

RM Server Fan Module Temperature attribute group

This attribute group provides information about the temperature of the rack-mount server fan module. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Fan Module Temperature attribute group:

Exhaust Temperature (C) attribute

Description

The current exhaust temperature of the fan module.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

AMBIENT_TEMPERATURE or FANMODEXTE

Fan Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the fan module.

Type string Warehouse name FAN_MODULE_DN or FMODULE_DN Fan Module ID attribute Description The ID of the fan module. Type string Warehouse name FAN_MODULE_ID or FMODULE_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RACKMNT_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP RM Server Fan Statistics attribute group This attribute group provides the statistics of the rack-mount server fans. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the RM Server Fan Statistics attribute group:

Fan DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server fan.

Type

string Warehouse name

FAN_DN or RMSVFAN_DN

Fan ID attribute

Description

The current ID of the rack-mount server fan.

Туре

string

Warehouse name

FAN_ID or RMSVFAN_ID

Fan Module DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server fan module.

Type

string

Warehouse name

FAN_MODULE_DN or FMODULE_DN

Fan Module ID attribute

Description

The current ID of the rack-mount server fan module.

Туре

string

Warehouse name

FAN_MODULE_ID or FMODULE_ID

Fan Speed attribute

Description

The current speed (in rpm) of the rack-mount server fan.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FAN_SPEED or SFAN_SPEED

Fan Stats DN attribute

Description

The distinguished name of the fan statistics.

Туре

string

Warehouse name

FAN_STATS_DN or FANSTAT_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string Source

The source for this attribute is the agent.

Warehouse name

NODE

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Type

string

Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RACKMNT_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **RM Server FC Port Statistics attribute group** This attribute group provides statistics about the rack-mount server fibre channel (FC) port. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions

The following list contains information about each attribute in the RM Server FC Port Statistics attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Type string

Warehouse name

ADAPTER DN

Adapter ID attribute

Description

The current ID of the adapter.

Type

string

Warehouse name ADAPTER_ID

Adapter Type attribute

Description

The type of adapter.

Туре

string Warehouse name

ADAPTER TYPE or ADAPTRTYPE

FCPORT Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the port statistics.

Туре

string Warehouse name FCPORT_STATS_DN or FC_PORT_DN HBA DN attribute This attribute is a key attribute.

Description The distinguished name of the HBA. Type string Warehouse name HBA_DN or RKM_HBA_DN HBA ID attribute Description The ID of the HBA. Type string Warehouse name HBA_ID or RKM_HBA_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN Rack Mount Server ID attribute Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RACKMNT_ID Rx Bad frames (packets) attribute Description The delta number of bad frames that are received at the fibre channel (FC) port. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name BAD FRAMES DELTA RX or RX BAD FRM **Rx Frames (packets) attribute** Description The delta number of frames that are received at the fibre channel (FC) port. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name

FRAMES_DELTA_RX or RX_FRAME_D

Timestamp attribute

The local time at the agent when the data was collected.

Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Tx Bad frames (packets) attribute

Description

The delta number of bad frames that are transmitted through the fibre channel (FC) port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BAD_FRAMES_DELTA_TX or TX_BAD_FRM

Tx Frames (packets) attribute

Description

The delta number of frames that are transmitted through the fibre channel (FC) port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FRAMES_DELTA_TX or TX_FRAME_D

RM Server Firmware attribute group

This attribute group provides information about the rack-mount server components and the installed firmware.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Firmware attribute group:

Activate Status attribute

Description

The activation status of the firmware.

Туре

string

Warehouse name

BOOT_UNIT_OPERSTATE or ACTIVESTAT

Backup Version attribute

Description

The firmware version that is in memory but not used by the server.

Type

string

Warehouse name

UPDATE_VERSION or BACKUPVERN

Deployment attribute

Description

The deployment value that defines the type of firmware.

Type string Warehouse name DEPLOYMENT Management Controller DN attribute This attribute is a key attribute. Description The distinguished name of the management controller. Type string Warehouse name MANAGEMENT_CONTROLLER_DN or MANAGMT_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RACKMNT_ID **Running Version attribute** Description The firmware version that is used by the server. Type string Warehouse name RUNNING_VERSION or RUNNINGVER Startup Version attribute Description The firmware version after the server is restarted. Type string Warehouse name BOOT_UNIT_VERSION or STARTUPVER Subject attribute Description The component that the firmware belongs to. Type string Warehouse name SUBJECT or SUBJECTATR

Timestamp attribute

The local time at the agent when the data was collected.

Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Update Status attribute

Description

The update status of the firmware version.

Туре

string Warehouse name

UPDATE_OPERSTATE or UPDATESTAT

RM Server HBA Configuration attribute group

This attribute group provides the configuration details of the rack-mount server host bus adapter (HBA). **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server HBA Configuration attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Type

string Warehouse name ADAPTER DN

Adapter ID attribute

Description

The ID of the adapter.

Туре

string

Warehouse name ADAPTER_ID

Fabric Interconnect ID attribute

Description

The fabric interconnect ID of the HBA.

Туре

string

Warehouse name

SWITCHID or HBA_FABRIC

HBA DN attribute This attribute is a key attribute.

Description

The distinguished name of the HBA.

Type

string

Warehouse name HBA_DN or RKM_HBA_DN

HBA ID attribute

Description

The ID of the HBA.

Type string Warehouse name HBA_ID or RKM_HBA_ID Name attribute Description The name of the HBA. Type string Warehouse name NAME or RMHBA_NAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Original WWNN attribute Description The original World Wide Node Name (WWNN) of the HBA. Type string Warehouse name ORIGINAL_NODE_WWN or RMORND_WWN **Original WWPN attribute** Description The original World Wide Name (WWN) of the HBA. Type string Warehouse name ORIGINAL_WWN or RMORGN_WWN **PCI** Address attribute Description The PCI address of the HBA. Type string Warehouse name PCI_ADDRESS or RMPCI_ADDR **PID** attribute Description The model number of the HBA. Type string Warehouse name MODEL or BHBA_MODEL **Purpose attribute** Description The purpose of the HBA. Type string Warehouse name PURPOSE or HBAPURPOSE Rack Mount Server DN attribute This attribute is a key attribute.

The distinguished name of the rack-mount server.

Type string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Type

string

Warehouse name

RACK_MOUNT_SERVER_ID or RACKMNT_ID

Revision attribute

Description

The current revision number of the HBA.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or HBREVISION

Serial Number (SN) attribute

Description

The serial number of the HBA.

Type

string Warehouse name

SERIAL or HBA_SERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Type attribute

Description

The type of HBA.The valid values are Physical and Virtual.

Type

string

Warehouse name

IF TYPE or BSHBA TYPE

Vendor attribute

Description

The vendor name of the HBA.

Type

string Warehouse name VENDOR or HBA_VENDOR

vNIC attribute

Description

The distinguished name of the virtual network interface card (vNIC).

Type string Warehouse name VNIC_DN or RMTVNIC_DN WWNN attribute Description The World Wide Node Name (WWNN) of the HBA. Type string Warehouse name NODE_WWN or RMNODE_WWN WWPN attribute Description The World Wide Name (WWN) of the HBA. Type string Warehouse name WWN or RM_HBA_WWN

RM Server HBA Health Summary attribute group

This attribute group provides a health summary of the rack-mount server host bus adapter (HBA). Historical group This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server HBA Health Summary attribute group:

Adapter DN attribute This attribute is a key attribute. Description The distinguished name of the adapter. Type string Warehouse name ADAPTER DN Adapter ID attribute Description The current ID of the adapter. Type string Warehouse name ADAPTER_ID HBA DN attribute This attribute is a key attribute. Description The distinguished name of the HBA. Type string Warehouse name HBA_DN or RKM_HBA_DN HBA ID attribute Description

The ID of the HBA.

Туре

string Warehouse name

HBA_ID or RKM_HBA_ID

```
Health attribute
```

The health status of the HBA.The yellow and red color highlighting indicates that a fault is generated in the rack-mount server HBA or its associated vHBA.

Type

string Warehouse name

HEALTH or HEALTH_ATT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Performance attribute

Description

The performance status of the HBA.

Type

string

Warehouse name

PERF or PERFORMANC

Power attribute

Description

The power status of the HBA.

Type

string Warehouse name POWER or RMHBAPOWER

QoS Policy DN attribute

Description

The distinguished name of the operating QoS policy of the vHBA.

Type

string

Warehouse name

OPER_QOS_POLICY_NAME or QOSPLCY_DN

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Type

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Type

string Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Thermal attribute

Description The thermal status of the HBA.

Туре

string

Warehouse name

THERMAL or HBATHERMAL

Timestamp attribute Description

escription

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server HBA and its associated vHBA.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

vHBA DN attribute

Description

The distinguished name of the virtual interface that is configured on the HBA.

Туре

string

Warehouse name

VNIC_DN or RKMVHBA_DN

WWNN attribute

Description

The WWNN of the HBA or vHBA.

Туре

string

Warehouse name

NODE_WWN or NODEWWNATT

WWPN attribute

Description

The WWPN that is used by the HBA or vHBA.

Туре

string Warehouse name

WWN or WWNATTRIBT

RM Server Health Summary attribute group

This attribute group provides a health summary of the rack-mount server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Health Summary attribute group:

Admin State attribute

Description

The administrator status of the rack-mount server.

Туре

string

Warehouse name ADMIN_STATE or ADMINSTATE Association State attribute

Description

The relationship between the server and the service profile.

Type

string

Warehouse name

ASSOCIATION or ASSOCSTATE

Availability State attribute

Description

The availability status of the rack-mount server that is associated with a service profile.

Type

string

Warehouse name

AVAILABILITY or AVAILSTATE

Check Point attribute

Description

The check point status of the rack-mount server.

Type

string

Warehouse name CHECK POINT or CHECKPOINT

Discovery State attribute

Description

The discovery status of the rack-mount server.

Туре

string

Warehouse name

DISCOVERY or DISCVSTATE

Health attribute

Description

The health status of the rack-mount server. The yellow or red color highlighting indicates that a fault is generated in the rack-mount server and its subcomponents and associated service profile.

Type

string

Warehouse name

HEALTH or RKMTHEALTH

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Power State attribute

Description

The power status of the rack-mount server.

Type

string Warehouse name OPERPOWER or POWRCSTATE

Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the associated service profile. Type string Warehouse name SERVICE_PROFILE_DN or SERVICEPDN Slot Status attribute Description The slot status of the rack-mount server. Type string Warehouse name SLOT STATUS or SLOTSTATUS **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the rack-mount server and its subcomponents and associated service profile. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name TOTAL FAULTS or RKMTFAULTS RM Server Memory Array Health attribute group This attribute group provides a health summary of the rack-mount server memory array unit. Historical group This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Memory Array Health attribute group:

Health attribute

Description

The health status of the memory array unit. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server memory array unit or its memory units.

Type

string Warehouse name HEALTH or RKMTHEALTH

Memory Array Unit DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server memory array unit.

Type

string

Warehouse name

MEMORY_ARRAY_UNIT_DN or MEMARRY_DN

Memory Array Unit ID attribute

Description

The ID of the rack-mount server memory array unit.

Type

string

Warehouse name

MEMORY_ARRAY_UNIT_ID or MEMARRY_ID

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Type

string Warehouse name

watehouse flame

MOTHERBOARD_DN or MOTHBRD_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string **Source**

The source for this attribute is the agent.

Warehouse name

NODE

Performance attribute

Description

The performance status of the memory array unit.

Type

string

Warehouse name

PERF or PERFORMANC

Presence attribute

Description

The presence status of the memory array unit.

Туре

string

Warehouse name PRESENCE or MBPRESENCE

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Type

string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Type

string Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server and its subcomponents and associated service profile.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

RM Server Memory Array Statistics attribute group

This attribute group provides statistics of the input current for the memory array unit of the rack-mount server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Memory Array Statistics attribute group:

Input Current (A) attribute

Description

The current value of the input current (in amperes) of the memory array unit.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_CURRENT or INPCURRENT

Memory Array Unit DN attribute This attribute is a key attribute.

Description

The distinguished name of the memory array unit.

Type

string

Warehouse name

MEMORY_ARRAY_UNIT_DN or MEMARAY_DN

Memory Array Unit ID attribute Description The current ID of the memory array unit. Type string Warehouse name MEMORY_ARRAY_UNIT_ID or MEMARAY_ID Memory Array Unit Stats DN attribute Description The distinguished name of the memory array unit statistics. Type string Warehouse name MEMORY_ARRAY_UNIT_STATS_DN or MEMAUST_DN Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RMSRESR_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RMSRESR_ID Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

RM Server Memory Array Unit attribute group

This attribute group provides the configuration details of the rack-mount server memory array unit. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Memory Array Unit attribute group:

CPU ID attribute

Description

The ID of the CPU.

Туре

string Warehouse name

CPU_ID or RKMDCPU_ID

Current Capacity attribute

Description

The current capacity of the memory array unit.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CURRENT_CAPACITY or C_CAPACITY

Max Capacity attribute

Description

The maximum capacity of the memory array unit.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAX_CAPACITY or M_CAPACITY

Max Devices attribute

Description

The maximum number of devices that can be populated in the memory array unit.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAX_DEVICES or MX_DEVICES

Memory Array Unit DN attribute This attribute is a key attribute.

Description

The distinguished name of the memory array unit.

Type

string

Warehouse name

MEMORY_ARRAY_UNIT_DN or MEMARAY_DN

Memory Array Unit ID attribute

Description

The ID of the memory array unit.

Type

string

Warehouse name MEMORY_ARRAY_UNIT_ID or MEMARAY_ID Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Туре

string Warehouse name

MOTHERBOARD_DN or MRBOARD_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the memory array unit.

Туре

string

Warehouse name

MODEL or MARRAY_PID

Populate Devices attribute

Description

The number of devices that are currently populated in the memory array unit.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

POPULATED or POPULATEDD

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Type

string Warehouse name

DACK N

RACK_MOUNT_SERVER_ID or RACKMNT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.
Warehouse name TIMESTAMP

Vendor attribute

Description

The vendor name of the memory array unit.

Type

string Warehouse name

VENDOR or MAR_VENDOR

RM Server Memory Unit Details attribute group

This attribute group provides the configuration details of the rack-mount server memory unit. Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Memory Unit Details attribute group:

Bank attribute

Description

The bank within the array.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BANK or MEMUT BANK

Capacity (MB) attribute

Description

The size (in MB) of the memory unit.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CAPACITY or M_CAPACITY

Clock (MHz) attribute

Description

The memory unit speed (in MHz).

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CLOCK or MEMUNCLOCK

Location attribute

Description

The location of the memory unit.

Type

string

Warehouse name

LOCATION or MULOCATION

Memory Array Unit DN attribute This attribute is a key attribute.

Description

The distinguished name of the memory array unit.

Type string Warehouse name MEMORY_ARRAY_UNIT_DN or MEMARAY_DN Memory Array Unit ID attribute Description The ID of the memory array unit. Type string Warehouse name MEMORY_ARRAY_UNIT_ID or MEMARAY_ID Memory Unit DN attribute This attribute is a key attribute. Description The distinguished name of the memory unit. Type string Warehouse name MEMORY_UNIT_DN or MEMUNIT_DN Memory Unit ID attribute Description The ID of the memory unit. Type string Warehouse name MEMORY_UNIT_ID or MEMUNIT_ID Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **PID** attribute Description The model number of the memory unit. Type string Warehouse name MODEL or MEMARMODEL Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute**

Description The ID of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RACKMNT_ID

Revision attribute

Description

The current revision number of the memory unit.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or MUREVISION

Serial Number (SN) attribute

Description

The serial number of the memory unit.

Туре

string Warehouse name

SERIAL or MEMUSERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the memory unit.

Туре

string Warehouse name

VENDOR or MAR_VENDOR

Width attribute

Description

The width of the memory unit.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

WIDTH or MEMUNWIDTH

RM Server Memory Unit Health attribute group

This attribute group provides a health summary of the rack-mount server memory unit. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Memory Unit Health attribute group:

Health attribute Description The health status of the memory unit. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server memory unit. Type string Warehouse name HEALTH or RKMTHEALTH Memory Array DN attribute This attribute is a key attribute. Description The distinguished name of the memory array unit. Type string Warehouse name MEMORY_ARRAY_DN or MEMARRY_DN Memory Array ID attribute Description The ID of the memory array unit. Type string Warehouse name MEMORY_ARRAY_ID or MEMARRY_ID Memory Unit DN attribute This attribute is a key attribute. Description The distinguished name of the memory unit. Type string Warehouse name MEMORY_UNIT_DN or MEMUNIT_DN Memory Unit ID attribute Description The ID of the memory unit. Type string Warehouse name MEMORY_UNIT_ID or MEMUNIT_ID Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MOTHBRD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the memory unit.

Type string Warehouse name OPERABILITY or OPERABILTY **Overall Status attribute** Description The overall status of the memory unit. Type string Warehouse name OPERSTATE or OPER_STATE Performance attribute Description The performance status of the memory unit. Type string Warehouse name PERF or PERFORMANC Power attribute Description The power status of the memory unit. Type string Warehouse name POWER or MEMUNTPOWR Presence attribute Description The presence status of the memory unit. Type string Warehouse name PRESENCE or MUPRESENCE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Thermal attribute Description The thermal status of the memory unit. Type string Warehouse name THERMAL or MUNTHERMAL Timestamp attribute Description The local time at the agent when the data was collected. Type

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server memory units.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

Voltage attribute

Description

The voltage status of the memory unit.

Туре

string Warehouse name

VOLTAGE or MEMVOLTAGE

RM Server Memory Unit Temp attribute group

This attribute group provides the temperature statistics of the rack-mount server memory unit. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Memory Unit Temp attribute group:

DDR3 Array Temperature (C) attribute

Description

The temperature (in Celsius) of the memory unit.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TEMPERATURE or TEMPERATUR

Memory Array Unit DN attribute This attribute is a key attribute.

Description

The distinguished name of the memory array.

Туре

string Warehouse name

MEMORY_ARRAY_UNIT_DN or MEMARAY_DN

Memory Array Unit ID attribute

Description

The current ID of the memory array.

Туре

string Warehouse name MEMORY_ARRAY_UNIT_ID or MEMARAY_ID <u>Memory Unit DN attribute</u> This attribute is a key attribute.

Description The distinguished name of the memory unit. Type string Warehouse name MEMORY_UNIT_DN or MEMUNIT_DN Memory Unit ID attribute Description The current ID of the memory unit. Type string Warehouse name MEMORY_UNIT_ID or MEMUNIT_ID Memory Unit Temperature Stats DN attribute Description The distinguished name of the memory unit temperature statistics. Type string Warehouse name MEMORY_UNIT_TEMPERATURE_STATS_DN or MUTMPST_DN Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MTHRBRD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK MOUNT SERVER ID or RCKMONT ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

RM Server Motherboard Details attribute group

This attribute group provides the configuration details of the rack-mount server motherboard. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Motherboard Details attribute group:

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server motherboard.

Туре

string Warehouse name

MOTHERBOARD_DN or MRBOARD_DN

Motherboard ID attribute

Description

The ID of the blade server motherboard.

Type

string

Warehouse name

```
MOTHERBOARD_ID or MRBOARD_ID
```

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE **PID attribute**

Description

The model number of the rack-mount server motherboard.

Type

string

Warehouse name

MODEL or MBOARD_PID

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Type

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Type

string

Warehouse name

RACK_MOUNT_SERVER_ID or RACKMNT_ID

Revision attribute

Description

The revision number of the rack-mount server motherboard.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or BSREVISION

Serial Number attribute

Description

The serial number of the rack-mount server motherboard.

Туре

string Warehouse name

SERIAL or BLSRSERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

```
Warehouse name
```

TIMESTAMP

Vendor attribute

Description

The vendor name of the rack-mount server motherboard.

Туре

string Warehouse name VENDOR or MBR_VENDOR

RM Server Motherboard Health attribute group

This attribute group provides a health summary of the rack-mount server motherboard. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Motherboard Health attribute group:

Health attribute

Description

The health status of the motherboard. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server motherboard or its subcomponents.

Type

string

Warehouse name

HEALTH or RKMTHEALTH

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Type string Warehouse name MOTHERBOARD_DN or MOTHBRD_DN Motherboard ID attribute Description The current ID of the motherboard. Type string Warehouse name MOTHERBOARD_ID or MRBOARD_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Oper Power attribute** Description The operational power of the rack-mount server motherboard. Type string Warehouse name OPER POWER or MTHBRDPOWR Performance attribute Description The performance status of the motherboard. Type string Warehouse name PERF or PERFORMANC Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Thermal attribute Description The thermal status of the motherboard. Type string Warehouse name THERMAL or MTHTHERMAL Timestamp attribute

Description

The local time at the agent when the data was collected.

Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server motherboard and its subcomponents.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

Voltage attribute

Description

The voltage status of the motherboard.

Туре

string

Warehouse name

VOLTAGE or MTHVOLTAGE

RM Server Motherboard Power attribute group

This attribute group provides information about the power statistics of the rack-mount server motherboard.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Motherboard Power attribute group:

Consumed Power (W) attribute

Description

The power (in watts) that is consumed by the rack-mount server.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CONSUMED_POWER or CONSMDPOWR

Input Current (A) attribute

Description

The current value of the input current (in amperes) of the rack-mount server motherboard.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_CURRENT or INPUTCURNT

Input Voltage (V) attribute

Description

The current input voltage (in volts) of the rack-mount server motherboard.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_VOLTAGE or INPUTVOLTG

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server motherboard.

Type

string

Warehouse name

MOTHERBOARD_DN or MTHRBRD_DN

Motherboard Power Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard power statistics.

Type

string

Warehouse name

MOTHERBOARD_POWER_STATS_DN or MB_STAT_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

RM Server Motherboard Temp attribute group

This attribute group provides the temperature statistics of the rack-mount server motherboard. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Motherboard Temp attribute group:

Ambient Temperature (C) attribute

Description

The current ambient temperature (in Celsius) of the rack-mount server motherboard.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

AMBIENT_TEMP or AMBNT_TEMP

Front Temperature (C) attribute

Description

The current temperature (in Celsius) at the front section of the rack-mount server motherboard.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FRONT_TEMP

IO Hub 1 Temperature (C) attribute

Description

The current temperature (in Celsius) at I/O hub 1 of the rack-mount server motherboard.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

IOH1TEMP or IOHU1_TEMP

IO Hub 2 Temperature (C) attribute

Description

The current temperature (in Celsius) at I/O hub 2 of the rack-mount server motherboard.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

IOH2TEMP or IOHU2_TEMP

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server motherboard.

Туре

string

Warehouse name

MOTHERBOARD_DN or MTHRBRD_DN

Motherboard Temp Stats DN attribute This attribute is a key attribute.

Description The distinguished name of the motherboard temperature statistics. Type string Warehouse name MOTHERBOARD_TEMP_STATS_DN or MB_STAT_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name

NODE

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Type

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Type

string Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Rear Temperature (C) attribute

Description

The current temperature (in Celsius) at the rear section of the rack-mount server motherboard.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REAR_TEMP or REAR_TEMPR

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

RM Server NIC Configuration attribute group

This attribute group provides the configuration details of the rack-mount server network interface controller (NIC).

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server NIC Configuration attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Type

string Warehouse name

ADAPTER_DN

Adapter ID attribute

Description

The current ID of the adapter.

Type

string

Warehouse name

ADAPTER ID

Fabric Interconnect ID attribute

Description

The fabric interconnect ID of the NIC.

Type

string Warehouse name

SWITCHID or NIC_FABRIC

MAC attribute

Description

The media access control (MAC) address of the NIC.

Type

string Warehouse name

MAC or RKMONT_MAC

Name attribute

Description

The name of the NIC.

Type

string Warehouse name

NAME or RMNIC_NAME

NIC DN attribute This attribute is a key attribute.

Description

The distinguished name of the NIC.

Type

string

Warehouse name

NIC DN or RKMTNIC DN

NIC ID attribute

Description

The ID of the NIC.

Type

string Warehouse name NIC_ID or RKMTNIC_ID Node attribute This attribute is a key attribute. Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Original MAC attribute

Description

The original media access control (MAC) address of the NIC.

Туре

string Warehouse name

ORIGINAL_MAC or OR_NIC_MAC

PID attribute

Description

The model number of the NIC.

Туре

string

Warehouse name

MODEL or BNIC_MODEL

Purpose attribute

Description

The purpose of the NIC.

Туре

string

Warehouse name

PURPOSE or NICPURPOSE

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string Warehouse name

DACTA N

RACK_MOUNT_SERVER_ID or RACKMNT_ID

Revision attribute

Description

The current revision number of the NIC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or NIREVISION

Serial Number (SN) attribute

Description

The serial number of the NIC.

Type

string

Warehouse name SERIAL or NIC SERIAL **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The type of NIC. The valid values are Physical and Virtual. Type string Warehouse name IF_TYPE or BSNIC_TYPE Vendor attribute Description The vendor name of the NIC. Type string Warehouse name VENDOR or NIC_VENDOR vNIC attribute Description The distinguished name of the virtual network interface card (vNIC). Type string Warehouse name VNIC_DN or RMTVNIC_DN RM Server NIC Health Summary attribute group

This attribute group provides a health summary of the rack-mount server network interface controller (NIC).

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server NIC Health Summary attribute group:

Adapter DN attributeThis attribute is a key attribute.DescriptionThe distinguished name of the adapter.Typestring

Warehouse name

ADAPTER_DN or ADAPTOR_DN

```
Adapter ID attribute
```

Description

The ID of the rack-mount server adapter.

Туре

string Warehouse name ADAPTER_ID or ADAPTOR_ID Health attribute Description The health status of the NIC. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server NIC or its associated vNIC. Type string Warehouse name HEALTH or RKMTHEALTH MAC Address attribute Description The MAC address of the NIC or vNIC. Type string Warehouse name MAC or MACATTRBUT NIC DN attribute This attribute is a key attribute. Description The distinguished name of the NIC. Type string Warehouse name NIC_DN or NIC_INT_DN NIC ID attribute Description The ID of the NIC. Type string Warehouse name NIC_ID or NIC_INT_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Performance attribute Description The performance status of the NIC. Type string Warehouse name PERF or PERFORMANC Power attribute Description The power status of the NIC. Type string Warehouse name POWER or MTHBRDPOWR **QoS Policy DN attribute** Description The distinguished name of the operating QoS Policy of the vNIC.

Type string Warehouse name OPER_QOS_POLICY_NAME or QOSPLCY_DN Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Туре string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Thermal attribute Description The thermal status of the NIC. Type string Warehouse name THERMAL or MTHTHERMAL **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the rack-mount server NIC and its associated vNIC. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name TOTAL FAULTS or RKMTFAULTS vNIC DN attribute Description The distinguished name of the virtual network interface card (vNIC). Type string Warehouse name

VNIC_DN or RKMVNIC_DN

RM Server PSU Configuration attribute group

This attribute group provides the configuration details of the rack-mount server PSU.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server PSU Configuration attribute group:

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string **Source**

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the rack-mount server PSU.

Type

string

Warehouse name

MODEL or MODELOFPSU

PSU DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server PSU.

Type

string

Warehouse name

PSU_DN or RMS_PSU_DN

PSU ID attribute

Description

The ID of the rack-mount server PSU.

Type

string

Warehouse name PSU_ID or PWRSUPUNID

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RACKMNT_ID

Revision attribute

Description

The current revision number of the rack-mount server PSU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name REVISION or REVISINPSU Serial Number(SN) attribute

Description

The serial number of the rack-mount server PSU.

Туре

string Warehouse name

SERIAL or SERIALOPSU

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the rack-mount server PSU.

Туре

string

Warehouse name

VENDOR or VENDOROPSU

RM Server PSU Health Summary attribute group

This attribute group provides a health summary of the rack-mount server PSU. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server PSU Health Summary attribute group:

Health attribute

Description

The health status of the PSU.The yellow and red color highlighting indicates that a fault is generated in the rack-mount server PSU.

Type

string

Warehouse name

HEALTH or RKMTHEALTH

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Operability attribute

Description

The operability status of the PSU.

Туре

string

Warehouse name OPERABILITY or OPERABILTY **Overall Status attribute** Description The overall status of the PSU. Type string Warehouse name OPERSTATE or OPER_STATE **Performance attribute** Description The performance status of the PSU. Type string Warehouse name PERF or PERFORMANC **Power attribute** Description The power status of the PSU. Type string Warehouse name POWER or MTHBRDPOWR **Presence** attribute Description The presence status of the PSU. Type string Warehouse name PRESENCE or MBPRESENCE PSU DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server PSU. Type string Warehouse name PSU_DN or RKMTPSU_DN **PSU ID attribute** Description The ID of the rack-mount server PSU. Type string Warehouse name PSU_ID or RKMTPSU_ID Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string

Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Thermal attribute Description

The thermal status of the PSU.

Туре

string

Warehouse name

THERMAL or MTHTHERMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the rack-mount server PSU.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

Voltage attribute

Description

The voltage status of the PSU.

Type

string

Warehouse name

VOLTAGE or MTHVOLTAGE

RM Server PSU Statistics attribute group

This attribute group provides statistics of the rack-mount server PSU.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server PSU Statistics attribute group:

Ambient Temperature (C) attribute

Description

The current internal temperature(in Celsius) of the PSU.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

AMBIENT_TEMPERATURE or INPUTTEMPE

Input Power(W) attribute

Description

The current input power (in watts) of the PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_POWER or INPUTPOWER

Input Voltage (V) attribute

Description

The current input voltage (in volts) of the PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_VOLTAGE or INPUTVOTGE

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Output Current (A) attribute

Description

The current value of the output current (in amperes) of the PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTPUT_CURRENT or OUTPUTCURT

Output Power(W) attribute

Description

The current output power (in watts) of the PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTPUT_POWER or OUTPUTPOWR

Output Voltage(V) attribute

Description

The current output voltage (in volts) of the PSU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OUTPUT_VOLTAGE or OUTPUTVOTG

<u>PSU DN attribute</u> This attribute is a key attribute.

Description

The distinguished name of the PSU.

Туре

string

Warehouse name PSU DN or RMS PSU DN **PSU ID attribute** Description The ID of the PSU. Type string Warehouse name PSU_ID or PWRSUPUNID **PSU Stats DN attribute** Description The distinguished name of the PSU statistics. Type string Warehouse name PSU_STATS_DN or PSUSTATSDN Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK MOUNT SERVER DN or RCKMONT DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK MOUNT SERVER ID or RACKMNT ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP RM Server Storage Controller attribute group

This attribute group provides the configuration details of the rack-mount server storage controller. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Storage Controller attribute group:

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Туре

string Warehouse name MOTHERBOARD_DN or MRBOARD_DN <u>Node attribute</u> This attribute is a key attribute. Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PCIe Address attribute

Description

The peripheral component interconnect express (PCIe) address of the storage controller.

Type

string

Warehouse name

PCIE_ADDRESS or PCIEADDRES

PID attribute

Description

The model number of the storage controller.

Type

string

Warehouse name

MODEL or MEMARMODEL

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Type

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Type

string Warehouse name

RACK_MOUNT_SERVER_ID or RACKMNT_ID

RAID Support attribute

Description

The redundant array of independent disks (RAID) configuration support of the storage controller.

Туре

string

Warehouse name

RAID_SUPPORT or RAIDSUPORT

Revision attribute

Description

The current revision number of the storage controller.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or MUREVISION

Serial Number (SN) attribute

Description The serial number of the storage controller. Type string Warehouse name SERIAL or MEMUSERIAL Storage Controller DN attribute This attribute is a key attribute. Description The distinguished name of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_DN or STORCON_DN Storage Controller ID attribute Description The current ID of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_ID or STORCON_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The type of the storage controller. Type string Warehouse name TYPE or STORAGTYPE Vendor attribute Description The vendor name of the storage controller. Type string Warehouse name VENDOR or MAR_VENDOR RM Server Storage Disk attribute group

This attribute group provides the configuration details of the rack-mount server storage controller disk. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Storage Disk attribute group:

Disk DN attribute This attribute is a key attribute.

Description

The distinguished name of the disk.

Type string Warehouse name DISK_DN or RKMDISK_DN **Disk ID attribute** Description The current ID of the disk. Type string Warehouse name DISK_ID or RKMDISK_ID Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **PID** attribute Description The model number of the disk. Type string Warehouse name MODEL or MEMARMODEL **Presence attribute** Description The presence of the disk. Type string Warehouse name PRESENCE or DKPRESENCE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RACKMNT_ID **Revision attribute**

Description

The current revision number of the disk.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or MUREVISION

Serial Number (SN) attribute

Description

The serial number of the disk.

Туре

string

Warehouse name

SERIAL or MEMUSERIAL

Storage Controller DN attribute This attribute is a key attribute.

Description

The distinguished name of the storage controller.

Type

string Warehouse name

STORAGE_CONTROLLER_DN or STORCON_DN

Storage Controller ID attribute

Description

The ID of the storage controller.

Туре

string Warehouse name

STORAGE_CONTROLLER_ID or STORCON_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the disk.

Туре

string

Warehouse name

VENDOR or MAR_VENDOR

RM Server Storage Disk Health attribute group

This attribute group provides a health summary of the rack-mount server storage controller disk. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Storage Disk Health attribute group:

Disk DN attribute This attribute is a key attribute.

Description

The distinguished name of the disk.

Type string

Warehouse name

DISK_DN or RKMDISK_DN

Disk ID attribute

Description

The current ID of the disk.

Type

string

Warehouse name

DISK_ID or RKMDISK_ID

Health attribute

Description

The health status of the storage controller. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server storage controller or its disks.

Type

string

Warehouse name

HEALTH or RKMTHEALTH

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Type

string

Warehouse name

```
MOTHERBOARD_DN or MOTHBRD_DN
```

Node attribute This attribute is a key attribute. Description

The managed system name of the agent. Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Operability attribute

Description

The operability status of the disk.

Type

string Warehouse name

OPERABILITY or OPERABILTY

Presence attribute

Description

The presence status of the disk.

Type

string Warehouse name PRESENCE or MBPRESENCE Rack Mount Server DN attribute This attribute is a key attribute. Description

The distinguished name of the rack-mount server.

Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Storage Controller DN attribute Description The distinguished name of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_DN or STOCONT_DN Storage Controller ID attribute Description The ID of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_ID or STOCONT_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute**

Description

The total number of faults that are currently generated in the rack-mount server storage controller disk and its subcomponents and associated service profile.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or RKMTFAULTS

RM Server Storage Health Summary attribute group

This attribute group provides a health summary of the rack-mount server storage controller. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server Storage Health Summary attribute group:

Health attribute

Description

The health status of the storage controller. The yellow and red color highlighting indicates that a fault is generated in the rack-mount server storage controller or its disks.

Type

string Warehouse name HEALTH or RKMTHEALTH Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Type

string

Warehouse name

MOTHERBOARD_DN or MOTHBRD_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Oper State attribute

Description

The overall status of the rack-mount server storage controller.

Туре

string Warehouse name OPER_STATE

1 · · · · · · ·

Operability attribute

Description

The operability status of the storage controller.

Туре

string

Warehouse name

OPERABILITY or OPERABILTY

Performance attribute

Description

The performance status of the storage controller.

Туре

string

Warehouse name

PERF or PERFORMANC

Power attribute

Description

The power status of the storage controller.

Туре

string

Warehouse name

POWER or MTHBRDPOWR

Presence attribute

Description

The presence status of the storage controller.

Type string Warehouse name PRESENCE or MBPRESENCE Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_ID or RCKMONT_ID Storage Controller DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server storage controller. Type string Warehouse name STORAGE_CONTROLLER_DN or STOCONT_DN Storage Controller ID attribute Description The ID of the rack-mount server storage controller. Type string Warehouse name STORAGE_CONTROLLER_ID or STOCONT_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the rack-mount server storage controller and its disks. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name TOTAL_FAULTS or RKMTFAULTS Voltage attribute Description The voltage status of the storage controller. Type

string

Warehouse name

VOLTAGE or MTHVOLTAGE

RM Server vNIC Statistics attribute group

This attribute group provides statistics of the rack-mount server virtual network interface controller (vNIC).

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Server vNIC Statistics attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Туре

string

Warehouse name

ADAPTER_DN

Adapter ID attribute

Description

The current ID of the adapter.

Туре

string Warehouse name

ADAPTER ID

Adapter Type attribute

Description

The type of adapter.

Type

string

Warehouse name

ADAPTER_TYPE or ADPTER_TYP

Bytes Rx attribute

Description

The delta number of bytes that are received by the card.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BYTES_RX_DELTA or BBBYTES_RX

Bytes Tx attribute

Description

The delta number of bytes that are sent by the card.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BYTES_TX_DELTA or BBBYTES_TX

Card DN attribute This attribute is a key attribute.

Description

The distinguished name of the card.

Туре

string

Warehouse name

CARD_DN or RMSCARD_DN

Card ID attribute

Description

The ID of the card.

Туре

string Warehouse name

CARD_ID or RMSCARD_ID

Dropped Rx attribute

Description

The delta number of bytes that are dropped while receiving data.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DROPPED_RX_DELTA or DROPPED_RX

Dropped Tx attribute

Description

The delta number of bytes that are dropped while sending data.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DROPPED_TX_DELTA or DROPPED_TX

Errors Rx attribute

Description

The delta number of errors that occurred while receiving data.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ERRORS_RX_DELTA or EERRORS_RX

Errors Tx attribute

Description

The delta number of errors that occurred while sending data.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ERRORS_TX_DELTA or EERRORS_TX

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Packets Rx attribute

Description

The delta number of packets that are received by the card.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PACKETS_RX_DELTA or PACKETS_RX

Packets Tx attribute

Description

The delta number of packets that are sent by the card.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PACKETS_TX_DELTA or PACKETS_TX

Rack Mount Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the rack-mount server.

Type

string

Warehouse name

RACK_MOUNT_SERVER_DN or RCKMONT_DN

Rack Mount Server ID attribute

Description

The ID of the rack-mount server.

Туре

string

Warehouse name

RACK_MOUNT_SERVER_ID or RCKMONT_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

vNIC Stats DN attribute

Description

The distinguished name of the vNIC statistics.

Туре

string

Warehouse name

VNIC_STATS_DN or VNICSTT_DN

RM Storage Firmware attribute group

This attribute group provides firmware details of the rack-mount server storage controller. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RM Storage Firmware attribute group:
Boot Loader Version attribute Description The boot loader version after the server is restarted. Type string Warehouse name BOOT_LOADER_VERSION or BOOTLOADER **Boot Unit Version attribute** Description The firmware version after the server is restarted. Type string Warehouse name BOOT_UNIT_VERSION or STARTUPVER **Deployment attribute** Description The deployment value that defines the type of firmware. Type string Warehouse name DEPLOYMENT Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **OperState attribute** Description The operational status of the firmware. Type string Warehouse name OPERSTATE or OPERSTSATE Package Version attribute Description The package version after the server is restarted. Type string Warehouse name PACKAGE_VERSION or PACKGEVRSN Rack Mount Server DN attribute This attribute is a key attribute. Description The distinguished name of the rack-mount server. Type string Warehouse name RACK_MOUNT_SERVER_DN or RCKMONT_DN **Rack Mount Server ID attribute** Description The ID of the rack-mount server. Type string

Warehouse name RACK MOUNT SERVER ID or RACKMNT ID Storage Controller DN attribute This attribute is a key attribute. Description The distinguished name of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_DN or STORCON_DN Storage Controller ID attribute Description The current ID of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_ID or STORCON_ID System Version attribute Description The system version after the server is restarted. Type string Warehouse name SYSTEM VERSION or SYSTEMVRSN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

SAN Pool Details attribute group

This attribute group provides details about the SAN pool.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the SAN Pool Details attribute group:

% Utilization attribute

Description

The percentage of initiator blocks in the pool that are assigned to the vHBA.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UTILIZATION or UTILIZTION

Assigned attribute

Description

The number of assigned initiator blocks that are currently not available.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ASSIGNED or AASSDIGNED

Health attribute

Description

The health status of the SAN pool. The yellow or red color highlighting indicates that a fault is generated in the SAN pool.

Type

string

Warehouse name

HEALTH or HEALTH_ATT

Name attribute

Description

The World Wide Name (WWN) of the pool.

Type

string

Warehouse name

NAME or NAMEATTRBB

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Type

string

Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Purpose attribute

Description

The purpose of the pool.

Type

string

Warehouse name

PURPOSE or PURPOSEATT

SAN Pool DN attribute This attribute is a key attribute.

Description

The distinguished name of the SAN pool.

Type

string

Warehouse name

SAN_POOL_DN or SANPOOL_DN

Size attribute

Description

The current number of WWN initiator blocks in the pool.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SIZE or SIZE_ATRBT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the SAN pool.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Server Adapter Configuration attribute group

This attribute group provides the configuration details about the adapter.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Adapter Configuration attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Туре

string Warehouse name

ADAPTER DN

Adapter ID attribute

Description

The ID of the adapter.

Type

string

Warehouse name ADAPTER ID

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Type

string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute

Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN Chassis ID attribute Description The ID of the chassis. Type string Warehouse name CHASSIS ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **PCI Slot attribute** Description The current PCI slot of the adapter. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name PCISLOT or IC_PCISLOT **PID** attribute Description The model number of the adapter. Type string Warehouse name MODEL or BNIC MODEL **Revision attribute** Description The current revision number of the adapter. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or NIREVISION

Serial Number (SN) attribute

Description The serial number of the adapter. Type string Warehouse name SERIAL or ICD_SERIAL Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Vendor attribute Description The vendor name of the adapter. Type string Warehouse name VENDOR or ICD_VENDOR

Server Adapter Health Summary attribute group

This attribute group provides a health summary of the adapter. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server Adapter Health Summary attribute group: Adapter DN attribute This attribute is a key attribute. Description The distinguished name of the adapter. Type string Warehouse name ADAPTER_DN Adapter ID attribute Description The current ID of the adapter. Type string Warehouse name ADAPTER ID Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server.

Type

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID

Chassis DN attribute This attribute is a key attribute. Description

T

The distinguished name of the chassis.

Туре

string Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The current ID of the chassis.

Type

string Warehouse name

CHASSIS_ID

Health attribute

Description

The health status of the adapter. The yellow and red color highlighting indicates that a fault is generated in the blade server adapter or its subcomponents.

Type

string

Warehouse name

HEALTH or HEALTH_ATT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source The source for this attribute is the agent.

Warehouse name

NODE

Operability attribute

Description

The operability status of the adapter.

Туре

```
string
Warehouse name
```

OPERABILITY or OPERABILTY

Thermal attribute

Description

The thermal status of the adapter.

Туре

string

Warehouse name

THERMAL or THERMAL_AT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the blade server adapter and its subcomponents.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Server Configuration Details attribute group

This attribute group provides the configuration details of the blade server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Configuration Details attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Type

string Warehouse name

BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute

Description

The ID of the blade server.

Type

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Туре

string Warehouse name CHASSIS DN

CHA5515_DN

Chassis ID attribute

Description

The ID of the chassis.

Туре

string

Warehouse name CHASSIS ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the blade server.

Туре

string Warehouse name

MODEL or BLDSER_PID

Revision attribute

Description

The revision number of the blade server.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or BSREVISION

Serial Number attribute

Description

The serial number of the blade server.

Type

string Warehouse name

SERIAL or BLSRSERIAL

Service Profile attribute

Description

The service profile of the blade server.

Type

string Warehouse name

ASSIGNED_TO or ASSIFNEDTO

Slot ID attribute

Description

The slot ID of the blade server.

Туре

string

Warehouse name

SLOT_ID or BLSRSLOTID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

UUID attribute

Description

The Universal Unique Identifier (UUID) of the blade server.

Type

string Warehouse name

UUID or BLDSERUUID

Vendor attribute

The vendor name of the blade server.

Type string

Warehouse name

VENDOR or MBR_VENDOR

Server CPU Configuration Details attribute group

This attribute group provides the configuration details of the blade server CPU. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server CPU Configuration Details attribute group: Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE SERVER DN or BLADESR DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE SERVER ID or BLADESR ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN **Chassis ID attribute** Description The ID of the chassis. Type string Warehouse name CHASSIS_ID CPU DN attribute This attribute is a key attribute. Description The distinguished name of the blade server CPU. Type string Warehouse name CPU DN or BLADCPU DN CPU ID attribute Description The ID of the blade server CPU. Type string

Warehouse name

CPU_ID or BLADCPU_ID

CPU Stepping attribute

Description

The current CPU stepping number of the blade server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

STEPPING or CPUSTEPING

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Туре

string

Warehouse name

MOTHERBOARD_DN or MRBOARD_DN

No of Enabled Cores attribute

Description

The number of enabled cores in the blade server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CORES_ENABLED or CORESENABL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Number of Cores attribute

Description

The current number of cores in the blade server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

NUMBER_OF_CORES or PROCECORES

PID attribute

Description

The model number of the blade server CPU.

Туре

string

Warehouse name

MODEL or MEMARMODEL

Processor Architecture attribute

Description

The processor architecture of the blade server CPU.

Type

string Warehouse name

PROCESSOR_ARCHITECTURE or PROCARCHIT

Revision attribute

Description

The revision number of the blade server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or MUREVISION

Serial Number (SN) attribute

Description

The serial number of the blade server CPU.

Туре

string

Warehouse name

SERIAL or MEMUSERIAL

Socket Name attribute

Description

The socket name of the blade server CPU.

Туре

string

Warehouse name

SOCKET_DESIGNATION or SOCKETDESI

Speed (GHz) attribute

Description

The speed (in GHz) of the blade server CPU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SPEED or BSCPUSPEED

Threads attribute

Description

The current number of threads in the blade server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREADS or CPUTHREADS

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

The vendor name of the blade server CPU.

Туре

string Warehouse name

VENDOR or MAR_VENDOR

Server CPU Health Summary attribute group

This attribute group provides a health summary of the blade server CPU. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server CPU Health Summary attribute group: Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE SERVER DN or BLADESR DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE SERVER ID or BLADESR ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN Chassis ID attribute Description The current ID of the chassis. Type string Warehouse name CHASSIS_ID CPU DN attribute This attribute is a key attribute. Description The distinguished name of the blade server CPU. Type string Warehouse name CPU DN or BLADCPU DN **CPU ID attribute** Description The current ID of the blade server CPU. Type string

Warehouse name CPU_ID or BLADCPU_ID Health attribute Description The health status of the blade server CPU. The yellow and red color highlighting indicates that a fault is generated in the blade server CPU. Type string Warehouse name HEALTH or HEALTH_ATT Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD DN or MRBOARD DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the blade server CPU. Type string Warehouse name **OPERABILITY or OPERABILTY Power attribute** Description The power status of the blade server CPU. Type string Warehouse name POWER or POWER_ATTR **Presence** attribute Description The presence status of the blade server CPU. Type string Warehouse name PRESENCE or PRESENCEAT Thermal attribute Description The thermal status of the blade server CPU. Type string Warehouse name THERMAL or THERMAL_AT Timestamp attribute

The local time at the agent when the data was collected.

Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the blade server CPU.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Server CPU Statistics attribute group

This attribute group provides statistics of the CPU environment.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server CPU Statistics attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Туре

string Warehouse name

BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute

Description

The ID of the blade server.

Туре

string Warehouse name

BLADE SERVER ID or BLADESR ID

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name

CHASSIS DN

Chassis ID attribute

Description

The current ID of the chassis.

Type

string

Warehouse name

CHASSIS_ID

<u>CPU DN attribute</u> This attribute is a key attribute.

The distinguished name of the CPU.

Type string

Warehouse name

CPU DN or BLADCPU DN

CPU Environment Stats DN attribute

Description

The distinguished name of the CPU environment statistics.

Type

string Warehouse name

CPU_ENVIRONMENT_STATS_DN or CPUENST_DN

CPU ID attribute

Description

The current ID of the CPU.

Туре

string

Warehouse name

CPU_ID or BLADCPU_ID

CPU Temperature (C) attribute

Description

The current temperature (in Celsius) of the CPU.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TEMPERATURE or TEMPERATRE

Input Current (A) attribute

Description

The current value of the input current (in ampere) of the CPU.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_CURRENT or INPUTCURNT

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Туре

string

Warehouse name

MOTHERBOARD_DN or MRBOARD_DN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

The local time at the agent when the data was collected.

Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server DCE Interface Summary attribute group

This attribute group provides the summary information about the data communications equipment (DCE) interface.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server DCE Interface Summary attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Type

string Warehouse name

ADAPTER_DN

Adapter ID attribute Description

The current ID of the adapter.

Type

string Warehouse name ADAPTER_ID

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Type

string

Warehouse name

BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute

Description

The ID of the blade server.

Туре

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string

Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The current ID of the chassis.

Type string Warehouse name CHASSIS_ID DCE Interface DN attribute This attribute is a key attribute. Description The distinguished name of the DCE interface. Type string Warehouse name DCE_INTERFACE_DN or DCEINTR_DN DCE Interface ID attribute Description The ID of the DCE interface. Type string Warehouse name DCE_INTERFACE_ID or DCEINTR_ID Fabric Interconnect ID attribute Description The fabric interconnect ID of the DCE interface. Type string Warehouse name SWITCHID or HBA_FABRIC Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Side attribute Description The side of the DCE interface. Type string Warehouse name SIDE or DCEINTSIDE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The type of the DCE interface. The valid values are Physical and Virtual. Type string

Warehouse name IF_TYPE or BSHBA_TYPE

This attribute group provides the configuration details of the blade server disk.

Server Disk Configuration attribute group

Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server Disk Configuration attribute group: Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Block Size (Bytes) attribute Description The block size (in bytes) of the disk. Type string Warehouse name BLOCK_SIZE Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN **Chassis ID attribute** Description The ID of the chassis. Type string Warehouse name CHASSIS ID **Connection Protocol attribute** Description The connection protocol of the disk. Type string Warehouse name CONNECTION PROTOCOL or CONPROTOCL Disk DN attribute This attribute is a key attribute. Description The distinguished name of the disk.

Type string Warehouse name DISK_DN or BLDDISK_DN Disk ID attribute Description The current ID of the disk. Type string Warehouse name DISK_ID or BLDDISK_ID Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Number of Blocks attribute Description The current number of blocks in the disk. Туре integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name NUMBER_OF_BLOCKS or NUM_BLOCKS **PID** attribute Description The model number of the disk. Type string Warehouse name MODEL or MEMARMODEL **Revision attribute** Description The current revision number of the disk. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name **REVISION or MUREVISION** Serial Number (SN) attribute Description The serial number of the disk.

Type string Warehouse name SERIAL or MEMUSERIAL Size (MB) attribute Description The size (in MB) of the disk. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name SIZE or BSDISKSIZE Storage Controller DN attribute This attribute is a key attribute. Description The distinguished name of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_DN or STORCON_DN Storage Controller ID attribute Description The ID of the storage controller. Type string Warehouse name STORAGE CONTROLLER ID or STORCON ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Vendor attribute Description The vendor name of the disk. Type string Warehouse name VENDOR or MAR_VENDOR Server Disk Health Summary attribute group This attribute group provides a health summary of the blade server disk. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server Disk Health Summary attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN Chassis ID attribute Description The current ID of the chassis. Type string Warehouse name CHASSIS ID Disk DN attribute This attribute is a key attribute. Description The distinguished name of the blade server disk. Type string Warehouse name DISK_DN or BLDDISK_DN Disk ID attribute Description The current ID of the blade server disk. Type string Warehouse name DISK_ID or BLDDISK_ID Health attribute Description The health status of the blade server disk. The yellow and red color highlighting indicates that a fault is generated in the blade server disk. Type string Warehouse name HEALTH or HEALTH ATT Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute.

Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operability attribute** Description The operability status of the blade server disk. Type string Warehouse name OPERABILITY or OPERABILTY **Presence** attribute Description The presence status of the blade server disk. Type string Warehouse name PRESENCE or PRESENCEAT Storage Controller DN attribute This attribute is a key attribute. Description The distinguished name of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_DN or STORCON_DN Storage Controller ID attribute Description The current ID of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_ID or STORCON_ID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the blade server disk. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Server Ether Port Communication attribute group

This attribute group provides statistics about the packets that are transmitted and received by the blade server Ethernet port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Ether Port Communication attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Type

string **Warehouse name**

ADAPTER_DN

Adapter ID attribute

Description

The current ID of the adapter.

Type

string

Warehouse name

ADAPTER_ID

Adapter Type attribute

Description

The type of adapter.

Type

string

Warehouse name

ADAPTER_TYPE or ADAPTRTYPE

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Туре

string Warehouse name

BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute

Description

The ID of the blade server.

Туре

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID

Broadcast (packets) attribute

Description

The delta number of broadcast packets that are transmitted through the port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BROADCAST_PACKETS_DELTA or BRDCSTPKTS

Card DN attribute This attribute is a key attribute.

Description

The distinguished name of the card.

Type string Warehouse name CARD_DN or BLSCARD_DN Card ID attribute Description The ID of the card. Type string Warehouse name CARD_ID or BLSCARD_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN Chassis ID attribute Description The current ID of the chassis. Type string Warehouse name CHASSIS ID Ether Port Mcast Stats DN attribute This attribute is a key attribute. Description The distinguished name of the Ethernet port multicast statistics. Type string Warehouse name ETHER_PORT_MCAST_STATS_DN or ETHPOMC_DN Multicast (packets) attribute Description The delta number of multicast packets that are transmitted through the port. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name MULTICAST_PACKETS_DELTA or MLTCSTPKTS Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Traffic Direction attribute

Description

The direction of the communication traffic at the port.

Type

string

Warehouse name

TRAFFIC_DIRECTION or TRAFCDIRET

Unicast (packets) attribute

Description

The delta number of unicast packets that are transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNICAST_PACKETS_DELTA or UNICSTPKTS

Server Ether Port Error attribute group

This attribute group provides the error statistics of the blade server Ethernet port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Ether Port Error attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Type

string Warehouse name ADAPTER_DN

Adapter ID attribute

Description

The current ID of the adapter.

Type

string Warehouse name ADAPTER_ID

Adapter Type attribute

Description

The type of adapter.

Type

```
string
```

```
Warehouse name
```

ADAPTER_TYPE or ADAPTRTYPE

Bad CRC (packets) attribute

Description

The delta number of received packets that did not pass the CRC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BAD_CRC_PACKETS_DELTA or BADCRCPKTS

Bad Length (packets) attribute

Description

The delta number of received packets whose size do not match the original size when they were sent by the server.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BAD_LENGTH_PACKETS_DELTA or BADLENGPKT

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Type

string Warehouse name

BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute

Description

The ID of the blade server.

Type

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID

Card DN attribute This attribute is a key attribute.

Description

The distinguished name of the card.

Type

string

Warehouse name

CARD_DN or BLSCARD_DN

Card ID attribute

Description

The ID of the card.

Type

string

Warehouse name

CARD_ID or BLSCARD_ID

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name

CHASSIS DN

Chassis ID attribute

Description

The current ID of the chassis.

Туре

Warehouse name CHASSIS_ID Ether Port Error Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the Ethernet port error statistics.

Туре

string

Warehouse name

ETHER_PORT_ERROR_STATS_DN or ETHPOER_DN

MAC Discarded (packets) attribute

Description

The delta number of MAC packets that are discarded at the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

MAC_DISCARD_PACKETS_DELTA or MACDISCPKT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string **Source**

e

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Traffic Direction attribute

Description

The direction of the communication traffic at the port.

Type

string

Warehouse name

TRAFFIC_DIRECTION or TRAFCDIRET

Server Ether Port Large attribute group

This attribute group provides the large packets received statistics of the blade server Ethernet port. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Ether Port Large attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Type string Warehouse name ADAPTER_DN Adapter ID attribute Description The current ID of the adapter. Type string Warehouse name ADAPTER_ID Adapter Type attribute Description The type of adapter. Type string Warehouse name ADAPTER_TYPE or ADAPTRTYPE Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Card DN attribute This attribute is a key attribute. Description The distinguished name of the card. Type string Warehouse name CARD_DN or BLSCARD_DN Card ID attribute Description The ID of the card. Type string Warehouse name CARD ID or BLSCARD ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN **Chassis ID attribute** Description The current ID of the chassis.

Type

string Warehouse name

CHASSIS_ID

Ether Port Large Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the large port statistics.

Type

string

Warehouse name

ETHER_PORT_LARGE_STATS_DN or ETHPOLG_DN

Greater than or equal to 9216 (packets) attribute

Description

The delta number of received packets whose size is greater than or equal to 9216 packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

GREATER_THAN_OR_EQUALTO_9216_DELTA or GREQ9216DL

Less than 1518 (packets) attribute

Description

The delta number of received packets whose size is less than 1518 packets.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_1518_DELTA or LSTN1518DL

Less than 2048 (packets) attribute

Description

The delta number of received packets whose size is less than 2048 packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_2048_DELTA or LSTN2048DL

Less than 4096 (packets) attribute

Description

The delta number of received packets whose size is greater than 2048 packets but less than 4096 packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_4096_DELTA or LSTN4096DL

Less than 8192 (packets) attribute

Description

The delta number of received packets whose size is greater than 4096 packets but less than 8192 packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_8192_DELTA or LSTN8192DL

Less than 9216 (packets) attribute

Description

The delta number of received packets whose size is greater than 8192 packets but less than 9216 packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_9216_DELTA or LSTN9216DL

No breakdown greater than 1518 (packets) attribute

Description

The delta number of packets whose size is greater than 1518 but are transmitted with zero errors.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

NO_BREAKDOWN_GREATERTHAN_1518_DELTA or NBGT1518DL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source ____

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Traffic Direction attribute

Description

The direction of the communication traffic at the port.

Туре

string

Warehouse name

TRAFFIC_DIRECTION or TRAFCDIRET

Server Ether Port Outsized attribute group

This attribute group provides statistics of the undersized and oversized packets that are received at the blade server Ethernet port.

Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server Ether Port Outsized attribute group: Adapter DN attribute This attribute is a key attribute. Description The distinguished name of the adapter. Type string Warehouse name ADAPTER DN Adapter ID attribute Description The current ID of the adapter. Type string Warehouse name ADAPTER ID Adapter Type attribute Description The type of adapter. Type string Warehouse name ADAPTER TYPE or ADAPTRTYPE Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Card DN attribute This attribute is a key attribute. Description The distinguished name of the card. Type string Warehouse name CARD_DN or BLSCARD_DN Card ID attribute Description The ID of the card. Type string Warehouse name CARD_ID or BLSCARD_ID Chassis DN attribute This attribute is a key attribute.

Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN **Chassis ID attribute** Description The current ID of the chassis. Type string Warehouse name CHASSIS ID Ether Port Outsized Stats DN attribute This attribute is a key attribute. Description The distinguished name of the Ethernet port outsized statistics. Type string Warehouse name ETHER_PORT_OUTSIZED_STATS_DN or ETHPOOS_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Oversized (packets) attribute Description The delta number of oversized packets that are received by the port. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name OVERSIZED_PACKETS_DELTA or OVRSIZPKTS Oversized bad CRC (packets) attribute Description The delta number of received oversized packets that did not pass the CRC. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name OVERSIZED_BAD_CRC_PACKETS_DELTA or OVRSBADPKT Oversized good CRC (packets) attribute Description The delta number of received oversized packets that passed the CRC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

OVERSIZED_GOOD_CRC_PACKETS_DELTA or OVRSGUDPKT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Traffic Direction attribute

Description

The direction of the communication traffic at the port.

Туре

string

Warehouse name

TRAFFIC_DIRECTION or TRAFCDIRET

Undersized bad CRC (packets) attribute

Description

The delta number of received undersized packets that did not pass the CRC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNDERSIZED_BAD_CRC_PACKETS_DELTA or UNDSBADPKT

Undersized good CRC (packets) attribute

Description

The delta number of received undersized packets that passed the CRC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UNDERSIZED_GOOD_CRC_PACKETS_DELTA or UNDSGUDPKT

Server Ether Port Packets attribute group

This attribute group provides statistics about the packets that are transmitted through the blade server Ethernet port

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Ether Port Packets attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Туре

string Warehouse name ADAPTER_DN Adapter ID attribute

Description

The current ID of the adapter.

Туре

string

Warehouse name ADAPTER ID Adapter Type attribute Description The type of adapter. Type string Warehouse name ADAPTER_TYPE or ADAPTRTYPE Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE SERVER ID or BLADESR ID Card DN attribute This attribute is a key attribute. Description The distinguished name of the card. Type string Warehouse name CARD_DN or BLSCARD_DN Card ID attribute Description The ID of the card. Type string Warehouse name CARD_ID or BLSCARD_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN Chassis ID attribute Description The current ID of the chassis. Type string Warehouse name CHASSIS ID Ether Port Packets Stats DN attribute This attribute is a key attribute. Description The distinguished name of the Ethernet port packets statistics. Type string

Warehouse name

ETHER_PORT_PACKETS_STATS_DN or ETHPOPK_DN

Good (packets) attribute

Description

The delta number of transmitted packets that contain zero errors.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

GOOD_PACKETS_DELTA or GUDPKTSDEL

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Pause (packets) attribute

Description

The delta number of pauses that occurred while transmitting the packets through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PAUSE_PACKETS_DELTA or PAUPKTSDEL

Per priority (packets) attribute

Description

The delta number of packets that are transmitted by the Per Priority (PP) mechanism.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PER_PRIORITY_PAUSE_PACKETS_DELTA or PPERPKTDEL

PPP (packets) attribute

Description

The delta number of pauses that occurred on the Per Priority Pause (PPP) mechanism while transmitting the packets.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PPP_PACKETS_DELTA or PPPPKTSDEL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string
Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total (packets) attribute

Description

The delta number of total packets that are currently transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_PACKETS_DELTA or TTLPKTSDEL

Traffic Direction attribute

Description

The direction of the communication traffic at the port.

Туре

string

Warehouse name TRAFFIC_DIRECTION or TRAFCDIRET

INAFFIC_DIRECTION OF IN

VLAN (packets) attribute

Description

The delta number of Virtual Local Area Network (VLAN) packets that are currently transmitted through the port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

VLAN_PACKETS_DELTA or VLANPKTDEL

Server Ether Port Small attribute group

This attribute group provides statistics of the small packets that are transmitted through the blade server Ethernet port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Ether Port Small attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Type

string Warehouse name

ADAPTER_DN

Adapter ID attribute

Description

The current ID of the adapter.

Type

string Warehouse name ADAPTER_ID Adapter Type attribute

Description The type of adapter. Type string Warehouse name ADAPTER TYPE or ADAPTRTYPE Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Card DN attribute This attribute is a key attribute. Description The distinguished name of the card. Type string Warehouse name CARD_DN or BLSCARD_DN Card ID attribute Description The ID of the card. Type string Warehouse name CARD_ID or BLSCARD_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN Chassis ID attribute Description The current ID of the chassis. Type string Warehouse name CHASSIS_ID Equal to 64 (packets) attribute Description The delta number of transmitted packets whose size is equal to 64 bytes. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in

the User Interface

Warehouse name EQUALTO_64_DELTA or EQTO64DELT Ether Port Small State DN attribute This attribute is a key attribute

Ether Port Small Stats DN attribute This attribute is a key attribute.

Description

The distinguished name of the small Ethernet port statistics.

Туре

string

Warehouse name

ETHER_PORT_SMALL_STATS_DN or ETHPOSM_DN

Less than 1024 (packets) attribute

Description

The delta number of transmitted packets whose size is less than 1024 bytes.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_1024_DELTA or LSTN1024DL

Less than 128 (packets) attribute

Description

The delta number of transmitted packets whose size is less than 128 bytes.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_128_DELTA or LSTN128DEL

Less than 256 (packets) attribute

Description

The delta number of transmitted packets whose size is greater than 128 bytes but less than 256 bytes.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_256_DELTA or LSTN256DEL

Less than 512 (packets) attribute

Description

The delta number of transmitted packets whose size is greater than 256 bytes but less than 512 bytes.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_512_DELTA or LSTN512DEL

Less than 64 (packets) attribute

Description

The delta number of transmitted packets whose size is less than 64 bytes.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

LESS_THAN_64_DELTA or LSTN64DLTA

Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Traffic Direction attribute Description The direction of the communication traffic at the port. Type string Warehouse name TRAFFIC_DIRECTION or TRAFCDIRET

Server FC Port Statistics attribute group

This attribute group provides statistics about the fibre channel (FC) port. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server FC Port Statistics attribute group: Adapter DN attribute This attribute is a key attribute. Description The distinguished name of the adapter. Type string Warehouse name ADAPTER_DN Adapter ID attribute Description The current ID of the adapter. Type string Warehouse name ADAPTER ID Adapter Type attribute Description The type of adapter. Type string Warehouse name ADAPTER TYPE or ADAPTRTYPE Blade Server DN attribute This attribute is a key attribute.

Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN **Chassis ID attribute** Description The current ID of the chassis. Type string Warehouse name CHASSIS ID FCPORT Stats DN attribute This attribute is a key attribute. Description The distinguished name of the port statistics. Type string Warehouse name FCPORT_STATS_DN or FC_PORT_DN HBA DN attribute This attribute is a key attribute. Description The distinguished name of the HBA. Type string Warehouse name HBA_DN or BSR_HBA_DN HBA ID attribute Description The ID of the HBA. Type string Warehouse name HBA_ID or BSR_HBA_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent.

Warehouse name

NODE

Rx Bad frames (packets) attribute

Description

The delta number of bad frames that are received at the FC port.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BAD_FRAMES_DELTA_RX or RX_BAD_FRM

Rx Frames (packets) attribute

Description

The delta number of frames that are received at the FC port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FRAMES_DELTA_RX or RX_FRAME_D

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Tx Bad frames (packets) attribute

Description

The delta number of bad frames that are transmitted through the FC port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BAD_FRAMES_DELTA_TX or TX_BAD_FRM

Tx Frames (packets) attribute

Description

The delta number of frames that are transmitted through the FC port.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FRAMES_DELTA_TX or TX_FRAME_D

Server Hardware Firmware attribute group

This attribute group provides information about the blade server hardware and the installed firmware. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Hardware Firmware attribute group:

Activate Status attribute Description The activation status of the firmware. Type string Warehouse name BOOT_UNIT_OPERSTATE or ACTIVESTAT **Backup Version attribute** Description The firmware version that is in the memory but not used by the server. Type string Warehouse name UPDATE_VERSION or BACKUPVERN Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE SERVER ID or BLADESR ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN Chassis ID attribute Description The current ID of the chassis. Type string Warehouse name CHASSIS_ID **Deployment attribute** Description The deployment value that defines the type of firmware. Type string Warehouse name DEPLOYMENT Management Controller DN attribute This attribute is a key attribute. Description The distinguished name of the management controller. Type string Warehouse name MANAGEMENT CONTROLLER DN or MANAGMT DN

Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Running Version attribute** Description The firmware version that is used by the server. Type string Warehouse name RUNNING_VERSION or RUNNINGVER Startup Version attribute Description The firmware version after the server is restarted. Type string Warehouse name BOOT UNIT VERSION or STARTUPVER Subject attribute Description The component that the firmware belongs to. Type string Warehouse name SUBJECT or SUBJECTATR **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Update Status attribute Description The update status of the firmware version. Type string Warehouse name UPDATE_OPERSTATE or UPDATESTAT Server HBA Configuration Details attribute group This attribute group provides the configuration details of the blade server HBA.

Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server HBA Configuration Details attribute group: <u>Adapter DN attribute</u> This attribute is a key attribute.

Description The distinguished name of the adapter. Type string Warehouse name ADAPTER DN Adapter ID attribute Description The ID of the adapter. Type string Warehouse name ADAPTER_ID Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN Chassis ID attribute Description The ID of the chassis. Type string Warehouse name CHASSIS_ID Fabric Interconnect ID attribute Description The fabric interconnect ID of the HBA. Type string Warehouse name SWITCHID or HBA_FABRIC HBA DN attribute This attribute is a key attribute. Description The distinguished name of the HBA. Type string Warehouse name HBA_DN or BSR_HBA_DN HBA ID attribute

Description The ID of the HBA. Type string Warehouse name HBA_ID or BSR_HBA_ID Name attribute Description The name of the HBA. Type string Warehouse name NAME or BSHBA_NAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Original WWNN attribute** Description The original WWNN of the HBA. Type string Warehouse name ORIGINAL_NODE_WWN or BONODE_WWN **Original WWPN attribute** Description The original World Wide Name (WWN) of the HBA. Type string Warehouse name ORIGINAL_WWN or BSORGN_WWN PCI Address attribute Description The PCI address of the HBA. Type string Warehouse name PCI_ADDRESS or BSPCI_ADDR **PID** attribute Description The model number of the HBA. Type string Warehouse name MODEL or BHBA_MODEL **Purpose attribute** Description The purpose of the HBA. Type string

Warehouse name

PURPOSE or HBAPURPOSE

Revision attribute

Description

The current revision number of the HBA.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or HBREVISION

Serial Number (SN) attribute

Description

The serial number of the HBA.

Туре

string Warehouse name

SERIAL or HBA_SERIAL

SERIAL OF HDA_5

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Type attribute

Description

The type of HBA.The valid values are Physical and Virtual.

Type

string

Warehouse name

IF_TYPE or BSHBA_TYPE

Vendor attribute

Description

The vendor name of the HBA.

Туре

string

Warehouse name

VENDOR or HBA_VENDOR

vHBA attribute

Description

The distinguished name of the vHBA.

Type

string Warehouse name

VHBA_DN or BLDVHBA_DN

WWNN attribute

Description

The World Wide Node Name (WWNN) of the HBA.

Type

string Warehouse name

NODE_WWN or BSNODE_WWN

WWPN attribute

Description The WWN of the HBA. Type

string Warehouse name WWN or BS_HBA_WWN

Server HBA Health Summary attribute group

This attribute group provides a health summary of the host bus adapter (HBA). Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server HBA Health Summary attribute group: Adapter DN attribute This attribute is a key attribute. Description The distinguished name of the adapter. Type string Warehouse name ADAPTER DN Adapter ID attribute Description The current ID of the adapter. Type string Warehouse name ADAPTER ID Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN Chassis ID attribute Description The current ID of the chassis. Type string

Warehouse name CHASSIS ID HBA DN attribute This attribute is a key attribute. Description The distinguished name of the HBA. Type string Warehouse name HBA_DN or BSR_HBA_DN HBA ID attribute Description The ID of the HBA. Type string Warehouse name HBA_ID or BSR_HBA_ID Health attribute Description The health status of the HBA. The yellow and red color highlighting indicates that a fault is generated in the blade server HBA or its associated vHBA. Type string Warehouse name HEALTH or HEALTH ATT Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Performance attribute** Description The performance status of the HBA. Type string Warehouse name PERF or PERFORMANC **Power attribute** Description The power status of the HBA. Type string Warehouse name POWER or BSHBAPOWER **QoS Policy DN attribute** Description The distinguished name of the operating QoS policy of the vHBA. Type string Warehouse name OPER_QOS_POLICY_NAME or QOSPLCY_DN Thermal attribute

Description

The thermal status of the HBA.

Type string

Warehouse name

THERMAL or HBATHERMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the blade server HBA and its associated vHBA.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

vHBA DN attribute

Description

The distinguished name of the virtual interface that is configured on the HBA.

Type

string

Warehouse name VNIC_DN or BLDVHBA_DN

WWNN attribute

Description

The WWNN of the HBA or vHBA.

Type

string

Warehouse name

NODE_WWN or NODEWWNATT

WWPN attribute

Description

The WWPN that is used by the HBA or vHBA.

Type

string

Warehouse name

WWN or WWNATTRIBT

Server Health Summary attribute group

This attribute group provides a health summary of the blade server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Health Summary attribute group: Admin State attribute

Description The administrator status of the blade server. Type string Warehouse name ADMIN STATE or ADMINSTATE Association State attribute Description The relationship between the server and the service profile. Type string Warehouse name ASSOCIATION or ASSOCIATIN Availability State attribute Description The availability status of the blade server that is associated with a service profile. Type string Warehouse name AVAILABILITY or AVAILSTATE Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE SERVER DN or BLADESR DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN Chassis ID attribute Description The current ID of the chassis. Type string Warehouse name CHASSIS_ID **Check Point attribute** Description The check point status of the blade server. Type string Warehouse name CHECK POINT or CHECKPOINT **Discovery State attribute**

Description

The discovery status of the blade server.

Type string

Warehouse name

DISCOVERY or DISCVSTATE

Health attribute

Description

The health status of the blade server. The yellow and red color highlighting indicates that a fault is generated in the blade server or its subcomponents or associated service profile.

Type

string

Warehouse name

HEALTH or HEALTH_ATT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Power State attribute

Description

The power status of the blade server.

Туре

string Warehouse name

OPER_POWER

Service Profile DN attribute

Description

The distinguished name of the associated service profile.

Туре

string

Warehouse name

SERVICE_PROFILE_DN or SRVCEPL_DN

Slot Status attribute

Description

The slot status of the blade server.

Туре

string Warehouse name

DDDDDD

PRESENCE or PRESENCEAT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the blade server and its subcomponents and associated service profile.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Server Memory Array Statistics attribute group

This attribute group provides the input current statistics of the memory array unit. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server Memory Array Statistics attribute group: Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE SERVER DN or BLADESR DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN **Chassis ID attribute** Description The current ID of the chassis. Type string Warehouse name CHASSIS ID Input Current (A) attribute Description The current value of the input current (in amperes) of the memory array unit. Type real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

INPUT_CURRENT or INPCURRENT

Memory Array Unit DN attribute This attribute is a key attribute.

Description The distinguished name of the memory array unit. Type string Warehouse name MEMORY_ARRAY_UNIT_DN or MEMARAY_DN Memory Array Unit ID attribute Description The current ID of the memory array unit. Туре string Warehouse name MEMORY_ARRAY_UNIT_ID or MEMARAY_ID Memory Array Unit Stats DN attribute Description The distinguished name of the memory array unit statistics. Type string Warehouse name MEMORY_ARRAY_UNIT_STATS_DN or MEMAUST_DN Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD DN or MRBOARD DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Server Memory Array Unit Details attribute group

This attribute group provides the configuration details of the blade server memory array unit. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Memory Array Unit Details attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN **Chassis ID attribute** Description The ID of the chassis. Type string Warehouse name CHASSIS ID **CPU ID attribute** Description The ID of the CPU. Type string Warehouse name CPU_ID or BLADCPU_ID **Current Capacity attribute** Description The current capacity of the memory array unit. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name CURRENT_CAPACITY or C_CAPACITY Max Capacity attribute Description The maximum capacity of the memory array unit. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name MAX_CAPACITY or M_CAPACITY Max Devices attribute Description The maximum number of devices that can be populated in the memory array

unit.

Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name MAX DEVICES or MX DEVICES Memory Array Unit DN attribute This attribute is a key attribute. Description The distinguished name of the memory array unit. Type string Warehouse name MEMORY_ARRAY_UNIT_DN or MEMARAY_DN Memory Array Unit ID attribute Description The ID of the memory array unit. Type string Warehouse name MEMORY_ARRAY_UNIT_ID or MEMARAY_ID Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD DN or MRBOARD DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE PID attribute Description The model number of the memory array unit. Type string Warehouse name MODEL or MARRAY_PID **Populate Devices attribute** Description The number of devices that are currently populated in the memory array unit. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name POPULATED or POPULATEDD Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string **Source**

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the memory array unit.

Type

string Warehouse name VENDOR or MAR_VENDOR

Server Memory Array Unit Health attribute group

This attribute group provides a health summary of the memory array unit. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Memory Array Unit Health attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Туре

string Warehouse name BLADE SERVER DN or BLADESR DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN

Chassis ID attribute

Description

The current ID of the chassis.

Type

string

Warehouse name

CHASSIS_ID

Health attribute

Description

The health status of the memory array unit. The yellow and red color highlighting indicates that a fault is generated in the blade server memory array unit or its memory units.

Type string Warehouse name HEALTH or HEALTH_ATT Memory Array Unit DN attribute This attribute is a key attribute. Description The distinguished name of the memory array unit. Type string Warehouse name MEMORY_ARRAY_UNIT_DN or MEMARAY_DN Memory Array Unit ID attribute Description The current ID of the memory array unit. Type string Warehouse name MEMORY_ARRAY_UNIT_ID or MEMARAY_ID Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Performance attribute** Description The performance status of the memory array unit. Type string Warehouse name PERFORMANCE or PERFORMANC **Presence** attribute Description The presence status of the memory array unit. Type string Warehouse name PRESENCE or PRESENCEAT Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the blade server memory array unit and its memory units.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Server Memory Unit Configuration attribute group

This attribute group provides the configuration details of the blade server memory unit. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Memory Unit Configuration attribute group:

Bank attribute

Description

The bank within the array.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BANK or MEMUT_BANK

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Туре

string Warehouse name

BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute

Description

The ID of the blade server.

Туре

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID

Capacity (MB) attribute

Description

The size (in MB) of the memory unit.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CAPACITY or M_CAPACITY

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The ID of the chassis.

Type

string

Warehouse name

CHASSIS_ID

Clock (MHz) attribute

Description

The memory unit speed (in MHz).

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

CLOCK or MEMUNCLOCK

Location attribute

Description

The location of the memory unit.

Туре

string

Warehouse name

LOCATION or MULOCATION

Memory Array Unit DN attribute This attribute is a key attribute.

Description

The distinguished name of the memory array unit.

Туре

string

Warehouse name

MEMORY_ARRAY_UNIT_DN or MEMARAY_DN

Memory Array Unit ID attribute

Description

The ID of the memory array unit.

Туре

string Warehouse name

```
MEMORY_ARRAY_UNIT_ID or MEMARAY_ID
```

Memory Unit DN attribute This attribute is a key attribute.

Description

The distinguished name of the memory unit.

Type

string Warehouse name MEMORY_UNIT_DN or MEMUNIT_DN Memory Unit ID attribute Description The ID of the memory unit. Type string Warehouse name

MEMORY_UNIT_ID or MEMUNIT_ID Motherboard DN attribute This attribute is a key attribute.

Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **PID** attribute Description The model number of the memory unit. Type string Warehouse name MODEL or MEMARMODEL **Revision attribute** Description The current revision number of the memory unit. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name **REVISION or MUREVISION** Serial Number (SN) attribute Description The serial number of the memory unit. Type string Warehouse name SERIAL or MEMUSERIAL **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Vendor attribute

Description

The vendor name of the memory unit.

Type

string Warehouse name

VENDOR or MAR_VENDOR

Width attribute

Description

The width of the memory unit.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

WIDTH or MEMUNWIDTH

Server Memory Unit Temperature attribute group

This attribute group provides the temperature statistics of the memory unit. Historical group This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Memory Unit Temperature attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Type

string Warehouse name

BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute

Description The ID of the blade server.

Type

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The current ID of the chassis.

Type

string

Warehouse name

CHASSIS ID

DDR3 Array Temperature (C) attribute

Description

The current temperature (in Celsius) of the memory unit.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TEMPERATURE or TEMPERATRE

Memory Array Unit DN attribute This attribute is a key attribute.

Description The distinguished name of the memory array unit. Type string Warehouse name MEMORY_ARRAY_UNIT_DN or MEMARAY_DN Memory Array Unit ID attribute Description The current ID of the memory array unit. Type string Warehouse name MEMORY_ARRAY_UNIT_ID or MEMARAY_ID Memory Unit DN attribute This attribute is a key attribute. Description The distinguished name of the memory unit. Type string Warehouse name MEMORY_UNIT_DN or MEMUNIT_DN Memory Unit ID attribute Description The current ID of the memory unit. Type string Warehouse name MEMORY_UNIT_ID or MEMUNIT_ID Memory Unit Temperature Stats DN attribute Description The distinguished name of the memory unit temperature statistics. Type string Warehouse name MEMORY_UNIT_TEMPERATURE_STATS_DN or MUTMPST_DN Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server Motherboard Configuration attribute group

This attribute group provides the configuration details of the blade server motherboard. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Motherboard Configuration attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Туре

string Warehouse name

BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute

Description

The ID of the blade server.

Type

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string

Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The ID of the chassis.

Type

string

Warehouse name

CHASSIS_ID

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server motherboard.

Туре

string Warehouse name MOTHERBOARD_DN or MRBOARD_DN <u>Motherboard ID attribute</u> Description The ID of the blade server motherboard. Type string Warehouse name

MOTHERBOARD_ID or MRBOARD_ID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string **Source**

Jource

The source for this attribute is the agent.

Warehouse name

NODE

PID attribute

Description

The model number of the blade server motherboard.

Туре

string

Warehouse name

MODEL or MBOARD_PID

Revision attribute

Description

The revision number of the blade server motherboard.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or BSREVISION

Serial Number attribute

Description

The serial number of the blade server motherboard.

Туре

string Warehouse name

SERIAL or BLSRSERIAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Vendor attribute

Description

The vendor name of the blade server motherboard.

Type

string

Warehouse name

VENDOR or MBR_VENDOR

Server Motherboard Health attribute group

This attribute group provides a health summary of the blade server motherboard. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Motherboard Health attribute group:

Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN Chassis ID attribute Description The current ID of the chassis. Type string Warehouse name CHASSIS ID Health attribute Description The health status of the motherboard. The yellow and red color highlighting indicates that a fault is generated in the blade server motherboard or its subcomponents. Type string Warehouse name HEALTH or HEALTH_ATT Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Motherboard ID attribute Description The current ID of the motherboard. Type string Warehouse name MOTHERBOARD ID or MRBOARD ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Oper Power attribute

Description

The operational power of the blade server motherboard.

Туре

string Warehouse name

OPER_POWER

Performance attribute

Description

The performance status of blade server.

Туре

string Warehouse name

PERFORMANCE or PERFORMANC

Thermal attribute

Description

The thermal status of the blade server.

Туре

string Warehouse name

THERMAL or THERMAL_AT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the blade server motherboard and its subcomponents.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Voltage attribute

Description

The voltage status of the blade server.

Type

string

Warehouse name

VOLTAGE or VOLTAGE_AT

Server Motherboard Power attribute group

This attribute group provides the statistics of the motherboard power consumption.

Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server Motherboard Power attribute group: Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE SERVER ID or BLADESR ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS DN Chassis ID attribute Description The current ID of the chassis. Type string Warehouse name CHASSIS ID Consumed Power (W) attribute Description The power (in Watts) that is currently consumed by the motherboard. Type real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name CONSUMED_POWER or CONSUMPWER Input Current (A) attribute Description The current value of the input current (in amperes) of the motherboard. Type real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does

not have a definition here is displayed in the User Interface

Warehouse name

INPUT_CURRENT or INPUTCURNT

Input Voltage (V) attribute

Description

The current input voltage (in volts) of the motherboard.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated

values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name INPUT_VOLTAGE or INPUTVOTGE Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Motherboard Power Stats DN attribute Description The distinguished name of the motherboard power statistics. Type string Warehouse name MOTHERBOARD_POWER_STATS_DN or MBPOWST_DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Server Motherboard Temperature attribute group This attribute group provides the temperature statistics of the blade server motherboard. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server Motherboard Temperature attribute group:

Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server.

Type

string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server. Type

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Туре

string

Warehouse name

CHASSIS_DN

Chassis ID attribute

Description

The current ID of the chassis.

Туре

string Warehouse name

CHASSIS_ID

Front Temperature (C) attribute

Description

The current temperature (in Celsius) at the front section of the motherboard.

Туре

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FM_TEMP_SEN_IO or TEMPEFRONT

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Туре

string

Warehouse name

MOTHERBOARD_DN or MRBOARD_DN

Motherboard Temperature Stats DN attribute

Description

The distinguished name of the motherboard temperature statistics.

Туре

string

Warehouse name

MOTHERBOARD_TEMPERATURE_STATS_DN or MBTMPST_DN Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string Source

The source for this attribute is the agent.

Warehouse name

NODE

Rear Temperature (C) attribute

Description

The current temperature (in Celsius) at the rear section of the motherboard.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated

values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FM_TEMP_SEN_REAR or TEMPERREAR

Rear Temperature Left(C) attribute

Description

The current temperature (in Celsius) at the left rear section of the motherboard.

Type

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FM_TEMP_SEN_REAR_L or TEMPEREARL

Rear Temperature Right(C) attribute

Description

Type

The current temperature (in Celsius) at the right rear section of the motherboard.

real number (32-bit gauge) with six decimal places of precision with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

FM_TEMP_SEN_REAR_R or TEMPEREARR

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server NIC Configuration Details attribute group

This attribute group provides the configuration details of the server NIC. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server NIC Configuration Details attribute group: Adapter DN attribute This attribute is a key attribute. Description The distinguished name of the adapter. Type string Warehouse name ADAPTER DN Adapter ID attribute Description The current ID of the adapter. Type string Warehouse name

ADAPTER_ID

Blade Server DN attribute This attribute is a key attribute.

Description The distinguished name of the blade server. Type string Warehouse name BLADE_SERVER_DN or BLADESR_DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN **Chassis ID attribute** Description The current ID of the chassis. Type string Warehouse name CHASSIS ID Fabric Interconnect ID attribute Description The fabric interconnect ID of the NIC. Type string Warehouse name SWITCHID or NIC_FABRIC MAC attribute Description The media access control (MAC) of the NIC. Type string Warehouse name MAC or BS_NIC_MAC Name attribute Description The name of the NIC. Type string Warehouse name NAME or BSNIC_NAME NIC DN attribute This attribute is a key attribute. Description The distinguished name of the NIC. Type string Warehouse name NIC_DN or BLADNIC_DN NIC ID attribute
Description The ID of the NIC. Type string Warehouse name NIC ID or BLADNIC ID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Original MAC attribute** Description The original media access control (MAC) of the NIC. Type string Warehouse name ORIGINALMAC or NICORG_MAC **PID** attribute Description The model number of the NIC. Type string Warehouse name MODEL or BNIC_MODEL **Purpose attribute** Description The purpose of the NIC. Type string Warehouse name PURPOSE or NICPURPOSE **Revision attribute** Description The current revision number of the NIC. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name **REVISION or NIREVISION** Serial Number (SN) attribute Description The serial number of the NIC. Type string Warehouse name SERIAL or NIC_SERIAL **Timestamp attribute** Description The local time at the agent when the data was collected.

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Type attribute

Description

The type of NIC. The valid values are Physical and Virtual.

Туре

string Warehouse name

IF_TYPE or BSNIC_TYPE

Vendor attribute

Description

The vendor name of the NIC.

Туре

string

Warehouse name

VENDOR or NIC_VENDOR

vNIC attribute

Description

The distinguished name of of the virtual network interface controller (vNIC).

Туре

string Warehouse name

VNIC_DN or BLDVNIC_DN

Server NIC Health Summary attribute group

This attribute group provides a health summary of the network interface controller (NIC). Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Server NIC Health Summary attribute group: Adapter DN attribute This attribute is a key attribute. Description The distinguished name of the adapter. Type string Warehouse name ADAPTER_DN Adapter ID attribute Description The current ID of the adapter. Type string Warehouse name ADAPTER ID Blade Server DN attribute This attribute is a key attribute. Description The distinguished name of the blade server. Type string

Warehouse name BLADE_SERVER_DN or BLADESR_DN **Blade Server ID attribute** Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN **Chassis ID attribute** Description The current ID of the chassis. Type string Warehouse name CHASSIS ID Health attribute Description The health status of the NIC. The yellow and red color highlighting indicates that a fault is generated in the blade server NIC or its associated vNIC. Type string Warehouse name HEALTH or HEALTH_ATT MAC Address attribute Description The MAC address of the NIC or vNIC. Type string Warehouse name MAC or MACATTRBUT NIC DN attribute This attribute is a key attribute. Description The distinguished name of the NIC. Type string Warehouse name NIC DN or BLADNIC DN NIC ID attribute Description The ID of the NIC. Type string Warehouse name NIC_ID or BLADNIC_ID Node attribute This attribute is a key attribute. Description The managed system name of the agent.

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Performance attribute

Description

The performance status of the NIC.

Type

string

Warehouse name

PERF or PERFORMANC

Power attribute

Description

The power status of the NIC.

Туре

string

Warehouse name

POWER or BSNICPOWER

QoS Policy DN attribute

Description

The distinguished name of the operating QoS policy of the vNIC.

Type

string Warehouse name

OPER_QOS_POLICY_NAME or QOSPLCY_DN

Thermal attribute

Description

The thermal status of the NIC.

Type

string

Warehouse name

THERMAL or NICTHERMAL

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the blade server NIC and its associated vNIC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

vNIC DN attribute

Description

The distinguished name of the virtual network interface card (vNIC).

Туре

string Warehouse name VNIC_DN or BLDVNIC_DN

Server Pool Details attribute group

This attribute group provides the configuration details of the server pool.

Historical group This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Pool Details attribute group:

% Assignment attribute

Description

The percentage of servers in the pool that are associated with the service profiles. **Type**

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ASSIGNMENT

Assigned attribute

Description

The assigned status of the server pool.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ASSIGNED or ASSIIGNEDD

Health attribute

Description

The health status of the server pool. The yellow or red color highlighting indicates that a fault is generated in the server pool.

Type

string

Warehouse name

HEALTH or HEALTH_ATT

Name attribute

Description

The name of the server pool.

Type

string

Warehouse name

NAME or NAMEATTRBT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Type string

Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Server Pool DN attribute This attribute is a key attribute.

Description

The distinguished name of the server pool.

Type

string Warehouse name

SERVER_POOL_DN or SRVPOOL_DN

Size attribute

Description

The current size of the server pool.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SIZE or SIZE_ATTRB

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the server pool.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Server Storage Controller attribute group

This attribute group provides the configuration details of the blade server storage controller. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Storage Controller attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Type string

Warehouse name

BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis. Type string Warehouse name CHASSIS_DN **Chassis ID attribute** Description The ID of the chassis. Type string Warehouse name CHASSIS ID Motherboard DN attribute This attribute is a key attribute. Description The distinguished name of the motherboard. Type string Warehouse name MOTHERBOARD DN or MRBOARD DN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE PCIe Address attribute Description The peripheral component interconnect express (PCIe) address of the storage controller. Type string Warehouse name PCIE ADDRESS or PCIEADDRES **PID** attribute Description The model number of the storage controller. Type string Warehouse name MODEL or MEMARMODEL **RAID Support attribute** Description The redundant array of independent disks (RAID) configuration support of the storage controller.

string Warehouse name

RAID_SUPPORT or RAIDSUPORT

Revision attribute

Description

The current revision number of the storage controller.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

REVISION or MUREVISION

Serial Number (SN) attribute

Description

The serial number of the storage controller.

Туре

string

Warehouse name

SERIAL or MEMUSERIAL

Storage Controller DN attribute This attribute is a key attribute.

Description

The distinguished name of the storage controller.

Туре

string

Warehouse name

STORAGE_CONTROLLER_DN or STORCON_DN

Storage Controller ID attribute

Description

The current ID of the storage controller.

Туре

string

Warehouse name

STORAGE_CONTROLLER_ID or STORCON_ID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Type attribute

Description

The type of the storage controller.

Type

string

Warehouse name

TYPE or STORAGTYPE

Vendor attribute

Description

The vendor name of the storage controller.

Type

string

Warehouse name VENDOR or MAR_VENDOR

Server Storage Controller Health attribute group

This attribute group provides a health summary of the storage controller. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Storage Controller Health attribute group:

Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Туре

string Warehouse name BLADE_SERVER_DN or BLADESR_DN Blade Server ID attribute Description The ID of the blade server. Type string Warehouse name BLADE_SERVER_ID or BLADESR_ID Chassis DN attribute This attribute is a key attribute. Description The distinguished name of the chassis.

Type

string Warehouse name CHASSIS_DN

Chassis ID attribute

Description

The current ID of the chassis.

Type

string Warehouse name

CHASSIS ID

Health attribute

Description

The health status of the storage controller. The yellow and red color highlighting indicates that a fault is generated in the blade server storage controller or its disks.

Туре

string

Warehouse name

HEALTH or HEALTH_ATT

Motherboard DN attribute This attribute is a key attribute.

Description

The distinguished name of the motherboard.

Туре

string Warehouse name MOTHERBOARD_DN or MRBOARD_DN Node attribute This attribute is a key attribute.

Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Oper State attribute** Description The operational status of the storage controller. Type string Warehouse name OPER_STATE **Operability attribute** Description The operability status of the storage controller. Type string Warehouse name **OPERABILITY or OPERABILTY Performance attribute** Description The performance status of the storage controller. Type string Warehouse name PERFORMANCE or PERFORMANC Power attribute Description The power status of the storage controller. Type string Warehouse name POWER or POWER_ATTR Presence attribute Description The presence status of the storage controller. Type string Warehouse name PRESENCE or PRESENCEAT Storage Controller DN attribute This attribute is a key attribute. Description The distinguished name of the storage controller. Type string Warehouse name STORAGE_CONTROLLER_DN or STORCON_DN Storage Controller ID attribute Description The current ID of the storage controller. Type string

Warehouse name

STORAGE_CONTROLLER_ID or STORCON_ID

Timestamp attribute Description

scription

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the blade server storage controller and its disks.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Voltage attribute

Description

The voltage status of the storage controller.

Туре

```
string
```

Warehouse name VOLTAGE or VOLTAGE_AT

Server vNIC Statistics attribute group

This attribute group provides statistics of the blade server vNIC.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server vNIC Statistics attribute group:

Adapter DN attribute This attribute is a key attribute.

Description

The distinguished name of the adapter.

Туре

string Warehouse name

ADAPTER_DN

Adapter ID attribute Description

The ID of the adapter.

Туре

string Warehouse name

ADAPTER_ID

Adapter Type attribute

Description

The type of adapter.

Туре

Warehouse name ADAPTER_TYPE or ADPTER_TYP Blade Server DN attribute This attribute is a key attribute.

Description

The distinguished name of the blade server.

Туре

string Warehouse name BLADE_SERVER_DN or BLADESR_DN

Blade Server ID attribute

Description

The ID of the blade server.

Type

string

Warehouse name

BLADE_SERVER_ID or BLADESR_ID

Bytes Rx attribute

Description

The delta number of bytes that are received by the card.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BYTES_RX_DELTA or BBBYTES_RX

Bytes Tx attribute

Description

The delta number of bytes that are sent by the card.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

BYTES_TX_DELTA or BBBYTES_TX

Card DN attribute This attribute is a key attribute.

Description

The distinguished name of the card.

Туре

string

Warehouse name

CARD_DN or BLSCARD_DN

Card ID attribute

Description

The current ID of the card.

Type

string Warehouse name

CARD_ID or BLSCARD_ID

Chassis DN attribute This attribute is a key attribute.

Description

The distinguished name of the chassis.

Type

string Warehouse name CHASSIS_DN

Chassis ID attribute

Description

The current ID of the chassis.

Type string

Warehouse name

CHASSIS_ID

Dropped Rx attribute

Description

The delta number of bytes that are dropped while receiving data.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DROPPED_RX_DELTA or DROPPED_RX

Dropped Tx attribute

Description

The delta number of bytes that are dropped while sending data.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

DROPPED_TX_DELTA or DROPPED_TX

Errors Rx attribute

Description

The delta number of errors that occurred while receiving data.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ERRORS_RX_DELTA or EERRORS_RX

Errors Tx attribute

Description

The delta number of errors that occurred while sending data.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ERRORS_TX_DELTA or EERRORS_TX

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Packets Rx attribute

Description

The delta number of packets that are received by the card.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PACKETS_RX_DELTA or PACKETS_RX

Packets Tx attribute

Description

The delta number of packets that are sent by the card.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

PACKETS_TX_DELTA or PACKETS_TX

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

vNIC Stats DN attribute

Description

The distinguished name of the vNIC statistics.

Туре

string

Warehouse name

VNIC_STATS_DN or VNICSTT_DN

Service Profile Health attribute group

This attribute group provides a health summary of the service profile.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Service Profile Health attribute group:

Assigned State attribute

Description

The assigned status of the service profile.

Type

```
string
Warehouse name
```

ASSIGNED_STATE or ASSIGNSTAT

Assoc State attribute

Description

The relationship between the server and a service profile.

Type

string Warehouse name ASSOC_STATE or ASSOCSTATE Associated Server attribute

Description

The server name to which the profile is assigned.

Type string

Warehouse name

PNDN or ATTR_PN_DN

BIOS Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the BIOS policy that is associated with the service profile.

Type

string

Warehouse name

BIOS_POLICY_DN or BIOSPROFDN

Boot Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the boot policy that is associated with the service profile.

Type

string

Warehouse name

BOOT_POLICY_DN or BOOTPLC_DN

Health attribute

Description

The health status of the service profile. The yellow or red color highlighting indicates that a fault is generated in the service profile or its associated server.

Type

string

Warehouse name

HEALTH or HEALTH_ATT

IPMI Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the IPMI access profile that is associated with the service profile.

Туре

string

Warehouse name

IPMI_POLICY_DN or IPMIDNATTR

Local Disk Configuration Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the local disk configuration policy that is associated with the service profile.

Type

string

Warehouse name

LOCAL_DISK_CONFIGURATION_POLICY_DN or LOCDSKCODN

Name attribute

Description

The name of the service profile.

Type

string

Warehouse name

NAME or NAME_ATTRB

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

string

Source

The source for this attribute is the agent.

Warehouse name

NODE Oper State attribute

Description

T

The operational status of the service profile.

Туре

string

Warehouse name OPER_STATE or OOPERSTATE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Туре

string

Warehouse name

ORG_ROOT_DN or ORGROOT_DN

Scrub Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the scrub policy that is associated with the service profile.

Type

string

Warehouse name

SCRUB_POLICY_DN or SCRUBDNATR

Serial Over LAN Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the serial over LAN policy that is associated with the service profile.

Type

string

Warehouse name

SERIAL_OVER_LAN_POLICY_DN or SOLPOLDNAT

Service Profile DN attribute This attribute is a key attribute.

Description

The distinguished name of the service profile.

Type

string

Warehouse name

SERVICE_PROFILE_DN or SRVCEPL_DN

Threshold Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the threshold policy that is associated with the service profile.

Type

string

Warehouse name

THRESHOLD_POLICY_DN or THRSHLD_DN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the service profile and its associated server and subcomponents.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

Type attribute

Description

The type of service profile.

Type

string

Warehouse name

TYPE or TYPE_ATTRB

vNIC/vHBA Placement Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the vNIC/vHBA placement policy that is associated with the service profile.

Туре

string

Warehouse name

VNIC_VHBA_PLACEMENT_POLICY_DN or PLACEMNTDN

Service Profiles vHBA Health Summary attribute group

This attribute group provides a health summary of the vHBA.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Service Profiles vHBA Health Summary attribute group:

Configuration State attribute

Description

The configuration state of the vHBA.

Туре

string

Warehouse name

CONFIGSTATE or CONFGSTATE

Equipment attribute This attribute is a key attribute.

Description

The distinguished name of the equipment.

Type

string

Warehouse name

EQUIPMENTDN or EQPMNTDNAT

Health attribute

Description

The health status of the vHBA. The yellow or red color highlighting indicates that a fault is generated in the vHBA.

Type string Warehouse name HEALTH or HEALTH_ATT Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Operational Speed attribute** Description The operational speed of the vNIC. Type string Warehouse name OPERSPEED or OPER_SPEED ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG ROOT DN or ORGROOT DN QoS Policy DN attribute This attribute is a key attribute. Description The distinguished name of the operational QoS policy. Type string Warehouse name OPERQOSPOLICYNAME or QOSPOLCNAM Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the service profile. Type string Warehouse name SERVICE_PROFILE_DN or SERPROFLDN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Total Faults attribute Description The total number of faults that are currently generated in the vHBA.

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

vHBA DN attribute This attribute is a key attribute.

Description

The distinguished name of the vHBA.

Туре

string

Warehouse name

VHBA_DN or VHBA_DNATR

Service Profiles vNIC Health Summary attribute group

This attribute group provides a health summary of the vNIC.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Service Profiles vNIC Health Summary attribute group:

Configuration State attribute

Description

The configuration state of the vNIC.

Туре

string

Warehouse name

CONFIGSTATE or CONFGSTATE

Equipment attribute This attribute is a key attribute.

Description

The distinguished name of the equipment.

Type

string

Warehouse name

EQUIPMENTDN or EQPMNTDNAT

Health attribute

Description

The health status of the vNIC.The yellow or red color highlighting indicates that a fault is generated in the vNIC.

Туре

string

Warehouse name HEALTH or HEALTH_ATT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Operational Speed attribute

Description

The operational speed of the vNIC.

string Warehouse name

OPERSPEED or OPER_SPEED

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Type

string

Warehouse name

ORG_ROOT_DN or ORGROOT_DN

<u>QoS Policy DN attribute</u> This attribute is a key attribute.

Description

The distinguished name of the operational Quality of service(QOS) policy.

Туре

string

Warehouse name

OPERQOSPOLICYNAME or QOSPOLCNAM

Service Profile DN attribute This attribute is a key attribute.

Description

The distinguished name of the service profile.

Type

string

Warehouse name

SERVICE_PROFILE_DN or SERPROFLDN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the vNIC.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

vNIC DN attribute This attribute is a key attribute.

Description

The distinguished name of the vNIC.

Type

string

Warehouse name

VNIC_DN or VNIC_DNATR

Sys Mon Alarm Trigger Configuration Details attribute group

This attribute group provides the configuration details about the alarm trigger. The alarm is triggered when a system value for the property is above or below the normal value and within the specified range for that alarm type.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Alarm Trigger Configuration Details attribute group:

Alarm Trigger DN attribute This attribute is a key attribute.

Description

The distinguished name of the alarm trigger.

Туре

string Warehouse name

ALARM_TRIGGER_DN or ALRMTRG_DN

Direction attribute

Description

The direction of the policy.

Type

string

Warehouse name

DIRECTION or DIREC_TION

Down attribute

Description

Indicates the lower value of the threshold.

Type

string

Warehouse name

DEESCALATING or DESCLATING

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Root Level DN attribute This attribute is a key attribute.

Description

The distinguished name of the alarm trigger root level.

Туре

string

Warehouse name

ROOT_LEVEL_DN or PARENTDNAT

Severity attribute

Description

The assigned severity to the alarm that is generated when the threshold policy is used.

Type

string

Warehouse name

SEVERITY or THSEVERITY

Threshold Policy Class DN attribute This attribute is a key attribute.

Description

The distinguished name of the threshold policy class.

Type

string

Warehouse name THRESHOLD POLICY CLASS DN or THCLASS DN Threshold Policy Definition DN attribute This attribute is a key attribute. Description The distinguished name of the threshold policy definition. Type string Warehouse name THRESHOLD_POLICY_DEFINITION_DN or DFNTION_DN Threshold Policy DN attribute This attribute is a key attribute. Description The distinguished name of the threshold policy. Type string Warehouse name THRESHOLD_POLICY_DN or THRSHLD_DN Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Up attribute Description Indicates the upper value of the threshold. Type string Warehouse name ESCALATING Sys Mon Appliance Port Configuration Details attribute group This attribute group provides the configuration details about the appliance port. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Sys Mon Appliance Port Configuration Details attribute group: Appliance Port DN attribute This attribute is a key attribute. Description The distinguished name of the appliance port. Type string Warehouse name APPLIANCE_PORT_DN or APLPSPRTDN **Config State attribute** Description The configuration state of the appliance port. Type string

Warehouse name CONFIGSTATE or APLPSPRTCF

Direction attribute

Description The direction of the appliance port packets. Type string Warehouse name DIRECTION or APLPDIRTON Fabric DN attribute This attribute is a key attribute. Description The distinguished name of the fabric. Type string Warehouse name FABRIC_DN or FABRICDNAT Fabric ID attribute Description The ID of the fabric that is associated with the appliance port. Type string Warehouse name SWITCHID or APLPSPRTSI Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port attribute Description The ID of the appliance port. Type string Warehouse name PORTID or APLPSPRTPI Session Name attribute Description The name of the traffic monitoring session. Type string Warehouse name SESSION_NAME or SRVRSESNNM Slot attribute Description The slot ID of the appliance port. Type string Warehouse name SLOTID or APLPSLOTID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string

Source

The source for this attribute is the agent. Warehouse name TIMESTAMP

Sys Mon Core File Exporter Configuration Details attribute group

This attribute group provides the configuration details of the core file exporter. The Cisco UCS Manager uses the core file exporter to export core files to a specified location on the network through Trivial File Transfer Protocol (TFTP).

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Core File Exporter Configuration Details attribute group:

Admin State attribute

Description

The administrator status of the core file exporter.

Туре

string Warehouse name

ADMINSTATE

Core File Exporter DN attribute This attribute is a key attribute.

Description

The distinguished name of the core file exporter.

Туре

string

Warehouse name

CORE_FILE_EXPORTER_DN or COREFILEDN

Description attribute

Description

The description of the core file exporter profile.

Type

string

Warehouse name

DESCR or DESCRRTION

Hostname (or IP Address) attribute

Description

The host name or the IP address of the remote server to connect through the Trivial File Transfer Protocol (TFTP).

Туре

string

Warehouse name

HOSTNAME or FEHOSTNAME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Path attribute

Description

The path that is used to store the core dump file on the remote server.

string

Warehouse name

PATH or COREFEPATH

Port attribute

Description

The port number that is used to export the core dump file through TFTP.

Type

string Warehouse name

PORT or COREFEPORT

System debug DN attribute This attribute is a key attribute.

Description

The distinguished name of the system debug.

Туре

string Warehouse name

SYSTEM_DEBUG_DN or SYSDEBUGDN

System DN attribute This attribute is a key attribute.

Description

The distinguished name of the top-level system.

Туре

string

Warehouse name

SYSTEM_DN or SYSCRFECDN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Sys Mon Fault Collection Policy Configuration Details attribute group

This attribute group provides the configuration details about the fault collection policy. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Fault Collection Policy Configuration Details attribute group:

Clear Action attribute

Description

The action that the system takes when a fault is cleared.

Туре

string

Warehouse name

CLEARACTION or CLERACTION

Clear Interval attribute

Description

The number of days, hours, minutes, and seconds that the system must wait before deleting a cleared fault message.

Туре

string

Warehouse name CLEARINTERVAL or CLERINTRVL Fault Collection Policy DN attribute This attribute is a key attribute. Description The distinguished name of the fault collection policy. Type string Warehouse name FAULT_COLLECTION_POLICY_DN or COLCTPOLDN Fault DN attribute This attribute is a key attribute. Description The distinguished name of the fault. Type string Warehouse name FAULT_DN or FAULT_DNAT Flap Interval attribute Description The waiting time of the system before the fault changes its state. Type string Warehouse name FLAPINTERVAL or FLAPINTRVL Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE **Retention Interval attribute** Description The time for which the system retains a fault after it is marked as cleared. Type string Warehouse name **RETENTIONINTERVAL or RETNINTRVL** Size Limit attribute Description The maximum file size (in bytes) before the Cisco UCS Manager overwrites the earlier message with the latest message. Type string Warehouse name SIZELIMIT or SIZE LIMIT **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Sys Mon FCoE Storage Port Configuration Details attribute group

This attribute group provides the configuration details about the Fibre Channel over Ethernet (FCoE) storage port. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Sys Mon FCoE Storage Port Configuration Details attribute group: **Config State attribute** Description The configuration state of the FCoE storage port server. Type string Warehouse name CONFIGSTATE or FCSTRGCFST **Direction attribute** Description The direction of the FCoE storage port packets. Type string Warehouse name DIRECTION or FCSTRGDRCN Fabric DN attribute This attribute is a key attribute. Description The distinguished name of the fabric. Type string Warehouse name FABRIC DN or FABRICDNAT Fabric ID attribute Description The ID of the fabric that is associated with the FCoE storage port. Type string Warehouse name SWITCHID or FCSTRGSWID FCoE Storage Port DN attribute This attribute is a key attribute. Description The distinguished name of the FCoE storage port. Type string Warehouse name FCOE_STORAGE_PORT_DN or FCSTRGPRDN Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port attribute Description The ID of the FCoE storage port.

string Warehouse name

PORTID or FCSTRGPORT

Session Name attribute

Description

The name of the traffic monitoring session.

Туре

string Warehouse name SESSION_NAME or SRVRSESNNM

Slot attribute

Description

The slot ID of the FCoE storage port.

Туре

string Warehouse name

SLOTID or FCSTRGSTID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Sys Mon Port Channel Configuration Details LAN attribute group

This attribute group provides the configuration details about the port channel. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Sys Mon Port Channel Configuration Details LAN attribute group: **Direction attribute** Description The direction of the port channel packets. Type string Warehouse name DIRECTION or SRVRDIRCTN Fabric DN attribute This attribute is a key attribute. Description The distinguished name of the fabric. Type string Warehouse name FABRIC DN or FABRICDNAT Fabric ID attribute Description

The ID of the fabric that is associated with the port channel.

Type

string

Warehouse name SWITCHID or SRVRFBRCID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port attribute Description The ID of the port channel. Type string Warehouse name PORTID or SRVRPORTID Port Channel DN attribute This attribute is a key attribute. Description The distinguished name of the port channel. Type string Warehouse name PORT_CHANNEL_DN or PRTCHSVRDN Session Name attribute Description The name of the traffic monitoring session. Type string Warehouse name SESSION_NAME or SRVRSESNNM **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Sys Mon Port Channel Configuration Details SAN attribute group This attribute group provides the configuration details about the port channel.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Port Channel Configuration Details SAN attribute group:

Direction attribute

Description

The direction of the port channel.

Туре

string

Warehouse name DIRECTION or SANPCDIRTN Fabric DN attribute This attribute is a key attribute. Description The distinguished name of the fabric. Type string Warehouse name FABRIC_DN or FABRICDNAT Fabric ID attribute Description The fabric ID of the port channel. Type string Warehouse name SWITCHID or SANPCFBRID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port attribute Description The ID of the port channel. Type string Warehouse name PORTID or SANPCPRTID Port Channel DN attribute This attribute is a key attribute. Description The distinguished name of the port channel. Type string Warehouse name PORT_CHANNEL_DN or SANPRTCHDN Session Name attribute Description The name of the traffic monitoring session. Type string Warehouse name SESSION_NAME or SRVRSESNNM **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Sys Mon Server Port Configuration Details attribute group

This attribute group provides the configuration details about the server port. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Sys Mon Server Port Configuration Details attribute group: **Direction attribute** Description The direction of the server port packets. Type string Warehouse name DIRECTION or SRVRDIRCTN Fabric DN attribute This attribute is a key attribute. Description The distinguished name of the fabric. Type string Warehouse name FABRIC DN or FABRICDNAT Fabric ID attribute Description The ID of the fabric that is associated with the server port. Type string Warehouse name SWITCHID or SRVRFBRCID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port attribute Description The ID of the server port. Type string Warehouse name PORTID or SRVRPORTID Server Port DN attribute This attribute is a key attribute. Description The distinguished name of the Destination. Type string Warehouse name EPDN or SVRPRTDSDN Server Port Source DN attribute This attribute is a key attribute. Description The distinguished name of the server port.

string Warehouse name

SERVER_PORT_SOURCE_DN or SRVRPORTDN

Session Name attribute

Description

The name of the traffic monitoring session.

Туре

string Warehouse name SESSION_NAME or SRVRSESNNM

Slot attribute

Description

The slot ID of the server port.

Туре

string Warehouse name

SLOTID or SRVRSLOTID

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Sys Mon Storage Port Configuration Details attribute group

This attribute group provides the configuration details about the storage port. **Historical group** This attribute group is eligible for use with Tivoli Data Warehouse. **Attribute descriptions**

The following list contains information about each attribute in the Sys Mon Storage Port Configuration Details attribute group:

Config State attribute

Description

The configuration status of the uplink FC port.

Type

string

Warehouse name

CONFIGSTATE or UPLINKCNFS

Direction attribute

Description

The direction of the storage port packets.

Туре

string

Warehouse name

DIRECTION or SANSTGDRCN

Fabric DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric.

Type

string

Warehouse name FABRIC DN or FABRICDNAT Fabric ID attribute Description The fabric ID of the storage port. Type string Warehouse name SWITCHID or SANSTGFBID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port attribute Description The ID of the storage port. Type string Warehouse name PORTID or SANSTRGPRT Session Name attribute Description The name of the traffic monitoring session. Type string Warehouse name SESSION_NAME or SRVRSESNNM Slot attribute Description The slot ID of the storage port. Type string Warehouse name SLOTID or SANSTGSTID Storage Port DN attribute This attribute is a key attribute. Description The distinguished name of the destnation. Type string Warehouse name EPDN or FCSTRGCFST Storage Port Source DN attribute This attribute is a key attribute. Description The distinguished name of the storage port. Type string Warehouse name STORAGE_PORT_SOURCE_DN or SANSTRGPDN **Timestamp attribute** Description The local time at the agent when the data was collected.

string

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

Sys Mon Syslog Local Destination Configuration Details attribute group

This attribute group provides the configuration details of the local syslog destination. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Syslog Local Destination Configuration Details attribute group:

Admin State attribute

Description

The administrator status of the local syslog destination.

Туре

string Warehouse name

ADMINSTATE

Destination Type attribute

Description

The destination type of the local syslog.

Туре

string Warehouse name

DESTINATION_TYPE or DESTNATION

Level attribute

Description

The severity type of the alert message.

Туре

string Warehouse name

SEVERITY or SYSSEVERTY

Name attribute

Description

The name of the file in which the alert messages are logged.

Type

string

Warehouse name

NAME or SYSLOCNAME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string **Source**

ource

The source for this attribute is the agent.

Warehouse name

NODE

Parent DN attribute This attribute is a key attribute.

Description

The distinguished name of the parent of the local syslog destination.

string Warehouse name

PARENT_DN or PARENTDNAT

Size (KB) attribute

Description

The maximum file size (in bytes) before Cisco UCS Manager GUI overwrites the earlier message with the latest message.

Туре

string

Warehouse name

SIZE or SYSLOCSIZE

Syslog Local DN attribute This attribute is a key attribute.

Description

The distinguished name of the local syslog.

Туре

string

Warehouse name

SYSLOG_LOCAL_DN or SYSLGLCLDN

System DN attribute This attribute is a key attribute.

Description

The distinguished name of the top-level system.

Туре

string Warehouse name

SYSTEM_DN or SYSCRFECDN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string **Source**

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Sys Mon Syslog Local Sources Configuration Details attribute group

This attribute group provides the configuration details of the local syslog sources. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Syslog Local Sources Configuration Details attribute group:

Audits attribute

Description

Indicates whether Cisco UCS logs the audit log events.

Туре

string Warehouse name

AUDITS or SLSCAUDITS

Events attribute

Description

Indicates whether the Cisco UCS logs the system events.

Туре

Warehouse name EVENTS or SLSCEVENTS **Faults attribute** Description Indicates whether the Cisco UCS logs the system faults. Type string Warehouse name FAULTS or SLSCFAULTS Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE SVC DN attribute This attribute is a key attribute. Description The distinguished name of the parent of the local syslog source. Type string Warehouse name SVC DN or SVCDNATTRI Syslog DN attribute This attribute is a key attribute. Description The distinguished name of the syslog. Type string Warehouse name SYSLOG_DN or SYSLGLCLDN Syslog Local Source DN attribute This attribute is a key attribute. Description The distinguished name of the local syslog source. Type string Warehouse name SYSLOG_LOCAL_SOURCE_DN or SYSLGSRCDN System DN attribute This attribute is a key attribute. Description The distinguished name of the top-level system. Type string Warehouse name SYSTEM_DN or SYSCRFECDN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP
Sys Mon Syslog Remote Destination Configuration Details attribute group

This attribute group provides the configuration details of the remote syslog destination. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Syslog Remote Destination Configuration Details attribute group:

Admin State attribute

Description

The administrator status of the remote syslog destination.

Туре

string Warehouse name

ADMINSTATE

Facility attribute

Description

The facility level contained in the syslog messages that are sent to the specified remote syslog server.

Type

string

Warehouse name

FORWARDINGFACILITY or SRFACILITY

Hostname (or IP Address) attribute

Description

The hostname or the IP address where the remote log file is located.

Type

string

Warehouse name

HOSTNAME or FEHOSTNAME

Level attribute

Description

The severity type of the alert message.

Туре

string Warehouse name

SEVERITY or SYSSEVERTY

Name attribute

Description

The name of the server.

Туре

string Warehouse name

NAME or SYSLOCNAME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

SVC DN attribute This attribute is a key attribute.

Description The distinguished name of the parent of the remote syslog destination. Type string Warehouse name SVC DN or SVCDNATTRI Syslog DN attribute This attribute is a key attribute. Description The distinguished name of the syslog. Type string Warehouse name SYSLOG_DN or SYSLGLCLDN Syslog Remote DN attribute This attribute is a key attribute. Description The distinguished name of the remote syslog. Type string Warehouse name SYSLOG_REMOTE_DN or SYSLGRMTDN System DN attribute This attribute is a key attribute. Description The distinguished name of the top-level system. Type string Warehouse name SYSTEM DN or SYSCRFECDN Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Sys Mon Threshold Policy Configuration Summary attribute group This attribute group provides the configuration details about the threshold policy. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the Sys Mon Threshold Policy Configuration Summary attribute group: **Description attribute** Description The description of the threshold policy.

Type

string

Warehouse name DESCR or THRPOLDESC

Name attribute

Description

The name of the threshold policy.

Type string Warehouse name NAME or THRPOLNAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Root Level DN attribute This attribute is a key attribute. Description The distinguished name of the threshold policy root level. Type string Warehouse name ROOT_LEVEL_DN or THRPOLPRDN Threshold Policy DN attribute This attribute is a key attribute. Description The distinguished name of the threshold policy. Type string Warehouse name THRESHOLD POLICY DN or THRPOLCYDN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Sys Mon Threshold Policy Definition Configuration Summary attribute group

This attribute group provides the configuration details about the threshold policy definition. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Threshold Policy Definition Configuration Summary attribute group:

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Normal Value attribute

Description The desired value for the property type. Type string Warehouse name NORMALVALUE or THRPDNRVAL **Property attribute** Description A defined property type for the class. Type string Warehouse name PROPID or THRPDPROID Root Level DN attribute This attribute is a key attribute. Description The distinguished name of the root level of the threshold policy definition. Type string Warehouse name ROOT_LEVEL_DN or THRPDPRTDN Threshold Policy Class DN attribute This attribute is a key attribute. Description The distinguished name of the threshold policy class. Type string Warehouse name THRESHOLD_POLICY_CLASS_DN or THRPDCNAME Threshold Policy Definition DN attribute This attribute is a key attribute. Description The distinguished name of the threshold policy definition. Type string Warehouse name THRESHOLD_POLICY_DEFINITION_DN or THRPODEFDN Threshold Policy DN attribute This attribute is a key attribute. Description The distinguished name of the threshold policy. Type string Warehouse name THRESHOLD_POLICY_DN or THRPOLCYDN Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

Sys Mon Traffic Monitoring Session Health Summary LAN attribute group

This attribute group provides a health summary of the traffic monitoring session for LAN.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Traffic Monitoring Session Health Summary LAN attribute group:

Admin State attribute

Description

The administrator status of the traffic monitoring session for LAN.

Туре

string Warehouse name ADMINSTATE or TRFMNSNADS

Destination DN attribute This attribute is a key attribute.

Description

The distinguished name of the destination for LAN.

Type

string

Warehouse name

EPDN or TRFMNSNDST

Fabric DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric.

Type

string

Warehouse name

FABRIC_DN or FABRICDNAT

Fabric ID attribute

Description

The switch ID of the traffic monitoring session for LAN.

Type

string Warehouse name

SWITCH_ID or TRFSWTCHID

Health attribute

Description

The health status of the traffic monitoring session for LAN. The yellow and red color highlighting indicates that a fault is generated in the traffic monitoring session for LAN.

Type

string

Warehouse name

HEALTH or TRFHEALTHA

Name attribute

Description

The name of the traffic monitoring session for LAN.

Туре

string

Warehouse name

NAME or TRFMNSNNME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string Source

The source for this attribute is the agent.

Warehouse name

NODE

Operational State attribute

Description

The operational status of the traffic monitoring session for LAN.

Туре

string

Warehouse name

OPERSTATE or TRFMNSNOPS

Operational State Reason attribute

Description

The reason for the operational status of the traffic monitoring session for LAN.

Туре

string

Warehouse name

OPERSTATEREASON or TRFMNSNOPR

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the traffic monitoring session for LAN.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TRFFAULTSA

Traffic Monitoring Session DN attribute This attribute is a key attribute.

Description

The distinguished name of the traffic monitoring session for LAN.

Туре

string Warehouse name

TRAFFIC_MONITORING_SESSION_DN or TRFMNSSNDN

Sys Mon Traffic Monitoring Session Health Summary SAN attribute group

This attribute group provides a health summary of the traffic monitoring session for SAN. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Traffic Monitoring Session Health Summary SAN attribute group:

Admin State attribute

Description

The administrator status of the traffic monitoring session for SAN.

Type

string Warehouse name

ADMINSTATE or TRFMNSNADS

Destination DN attribute This attribute is a key attribute.

Description

The distinguished name of the destination for SAN.

Туре

string

Warehouse name

EPDN or TRFMNSNDST

Fabric DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric.

Туре

string

Warehouse name FABRIC_DN or FABRICDNAT

Fabric ID attribute

Description

The switch ID of the traffic monitoring session for SAN.

Туре

string

Warehouse name

SWITCH_ID or TRFSWTCHID

Health attribute

Description

The health status of the traffic monitoring session for SAN. The yellow and red color highlighting indicates that a fault is generated in the traffic monitoring session for SAN.

Туре

string Warehouse name

HEALTH or TRFHEALTHA

Name attribute

Description

The name of the traffic monitoring session for SAN.

Туре

string

Warehouse name

NAME or TRFMNSNNME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string Source

The source for this attribute is the agent.

Warehouse name

NODE

Operational State attribute

Description

The operational status of the traffic monitoring session for SAN.

Type

string

Warehouse name OPERSTATE or TRFMNSNOPS Operational State Reason attribute

Description

Description

The reason for the operational status of the traffic monitoring session for SAN.

Туре

string Warehouse name

OPERSTATEREASON or TRFMNSNOPR

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the traffic monitoring session for SAN.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TRFFAULTSA

Traffic Monitoring Session DN attribute This attribute is a key attribute.

Description

The distinguished name of the traffic monitoring session for SAN.

Type

string

Warehouse name

TRAFFIC_MONITORING_SESSION_DN or TRFMNSSNDN

Sys Mon Uplink Ethernet Port Configuration Details attribute group

This attribute group provides the configuration details about the uplink Ethernet port.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Uplink Ethernet Port Configuration Details attribute group:

Direction attribute

Description

The direction of the uplink Ethernet port packets.

Туре

string Warehouse name

DIRECTION or ULNKDIRCTN

Fabric DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric.

Туре

Warehouse name FABRIC DN or FABRICDNAT Fabric ID attribute Description The ID of the fabric that is associated with the uplink Ethernet port. Type string Warehouse name SWITCHID or ULNKFBRCID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port attribute Description The ID of the uplink Ethernet port. Type string Warehouse name PORTID or ULNKPORTID Session Name attribute Description The name of the traffic monitoring session. Type string Warehouse name SESSION_NAME or SRVRSESNNM Slot attribute Description The slot ID of the uplink Ethernet port. Type string Warehouse name SLOTID or ULNKSLOTID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Uplink Ethernet Port DN attribute This attribute is a key attribute. Description The distinguished name of the destination. Type string Warehouse name EPDN or SVRPRTDSDN Uplink Ethernet Source DN attribute This attribute is a key attribute.

Description

The distinguished name of the uplink Ethernet port.

Type string

Warehouse name

UPLINK_ETHERNET_SOURCE_DN or ULNKESVRDN

Sys Mon Uplink FC Port Configuration Details attribute group

This attribute group provides the configuration details about the SAN uplink fibre channel (FC) port. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon Uplink FC Port Configuration Details attribute group:

Direction attribute Description The direction of the uplink FC port. Type string Warehouse name DIRECTION or ULNKFDRCTN Fabric DN attribute This attribute is a key attribute. Description The distinguished name of the fabric. Type string Warehouse name FABRIC DN or FABRICDNAT Fabric ID attribute Description

The ID of the fabric interconnect.

Туре

string

Warehouse name

SWITCHID or ULNKFFBRID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name NODE

Port attribute

Description

The ID of the uplink FC port.

Type

string

Warehouse name PORTID or ULNKFPRTID

Session Name attribute

Description

The name of the traffic monitoring session.

Type string Warehouse name SESSION_NAME or SRVRSESNNM Slot attribute Description The slot ID of the uplink FC port. Type string Warehouse name SLOTID or ULNKFSLTID **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Uplink FC Port DN attribute This attribute is a key attribute. Description The distinguished name of the uplink FC port. Type string Warehouse name EPDN or ULNKFDESDN Uplink FC Port Source DN attribute This attribute is a key attribute. Description The distinguished name of the SAN uplink FC port. Туре string Warehouse name UPLINK_FC_PORT_SOURCE_DN or UPLNKFCPDN

Sys Mon vHBA Configuration Details attribute group

This attribute group provides the configuration details about the host bus adapter (HBA). Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon vHBA Configuration Details attribute group:

Direction attribute

Description

The direction of the vHBA.

Type

string

Warehouse name

DIRECTION or VHBADIRCTN

Fabric ID attribute

Description

The ID of the fabric that is associated with the vHBA.

Type

string

Warehouse name SWITCHID or VHBAFBRCID Name attribute Description The name of the vHBA. Type string Warehouse name NAME or VHBAPORTID Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE ORG Root DN attribute This attribute is a key attribute. Description The distinguished name of the organization root. Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the service profile. Type string Warehouse name SERVICE_PROFILE_DN or SRVCPRFLDN Session Name attribute Description The name of the traffic monitoring session. Type string Warehouse name SESSION_NAME or SRVRSESNNM **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP vHBA DN attribute This attribute is a key attribute. Description The distinguished name of the vHBA. Type string Warehouse name VHBA DN or VHBACNFDDN

Sys Mon VLAN Configuration Details attribute group

This attribute group provides the configuration details about the virtual local area network (VLAN). **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon VLAN Configuration Details attribute group:

Direction attribute

Description

The direction of the VLAN.

Туре

string

Warehouse name

DIRECTION or LNSVRDIRTN

Fabric DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric.

Туре

string

Warehouse name

FABRIC_DN or FABRICDNAT

Fabric ID attribute

Description

The ID of the fabric that is associated with the VLAN.

Type

string

Warehouse name

SWITCHID or SRVRFBRCID

Name attribute

Description

The name of the VLAN.

Туре

string

Warehouse name

NAME or LNSVRPRTID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Session Name attribute

Description

The name of the traffic monitoring session.

Туре

string

Warehouse name

SESSION_NAME or SRVRSESNNM

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP VLAN DN attribute Description The distinguished name of the VLAN. Type string Warehouse name VLAN_DN or PRTCHSVRDN

Sys Mon vNIC Configuration Details attribute group

This attribute group provides the configuration details about the virtual network interface controller (vNIC).

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon vNIC Configuration Details attribute group:

Direction attribute

Description

The direction of the vNIC.

Type

string Warehouse name

DIRECTION or NCSVRDIRTN

Fabric ID attribute

Description

The ID of the fabric that is associated with the vNIC.

Туре

string Warehouse name

SWITCHID or SRVRFBRCID

Name attribute

Description

The name of the vNIC.

Туре

string

Warehouse name NAME or NCSVRPRTID

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Type string Warehouse name ORG_ROOT_DN or ORGROOT_DN Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the Service profile. Type string Warehouse name SERVICE_PROFILE_DN or SRVCPRFLDN Session Name attribute Description The name of the traffic monitoring session. Type string Warehouse name SESSION_NAME or SRVRSESNNM Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP vNIC DN attribute This attribute is a key attribute. Description The distinguished name of the vNIC. Type string Warehouse name VNIC DN or PRTCHSVRDN Sys Mon VSAN Configuration Details attribute group This attribute group provides the configuration details about the VSAN. Historical group This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Sys Mon VSAN Configuration Details attribute group:

Direction attribute

Description The direction of the VSAN.

Type

string Warehouse name

DIRECTION or VSANDIRCTN

Fabric DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric.

Type

string

Warehouse name FABRIC DN or FABRICDNAT Fabric ID attribute Description The fabric ID of the VSAN. Type string Warehouse name SWITCHID or VSANFBRCID Name attribute Description The name of the VSAN. Type string Warehouse name NAME or VSANTFNAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Session Name attribute Description The name of the traffic monitoring session. Type string Warehouse name SESSION_NAME or SRVRSESNNM **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP VSAN DN attribute This attribute is a key attribute. Description The distinguished name of the VSAN. Type string Warehouse name VSAN_DN or VSANCNFDDN Thread Pool Status attribute group

The Thread Pool Status attribute group contains information that reflects the status of the internal thread pool used to collect data asynchronously.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Thread Pool Status attribute group:

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Thread Pool Active Threads attribute

Description

The number of threads in the thread pool currently active doing work.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_ACTIVE_THREADS or TPACTTH

Thread Pool Avg Active Threads attribute

Description

The average number of threads in the thread pool simultaneously active doing work.

Type

real number (32-bit gauge) with two decimal places of precision with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_AVG_ACTIVE_THREADS or TPAVGAT

Thread Pool Avg Job Wait attribute

Description

The average time a job spends waiting on the thread pool queue in seconds.

Type

real number (32-bit gauge) with two decimal places of precision with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_AVG_JOB_WAIT or TPAVJBW

Thread Pool Avg Queue Length attribute

Description

The average length of the thread pool queue during this run.

Type

real number (32-bit gauge) with two decimal places of precision with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_AVG_QUEUE_LENGTH or TPAVGQL

Thread Pool Max Active Threads attribute

Description

The peak number of threads in the thread pool that were simultaneously active doing work.

Type

integer (32-bit counter) with enumerated values. The following values are

defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_MAX_ACTIVE_THREADS or TPMAXAT

Thread Pool Max Queue Length attribute

Description

The peak length the thread pool queue reached.

Туре

integer (32-bit counter) with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_MAX_QUEUE_LENGTH or TPMAXQL

Thread Pool Max Size attribute

Description

The maximum number of threads that are allowed to exist in the thread pool.

Type

integer (32-bit numeric property) with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_MAX_SIZE or TPMAXSZ

Thread Pool Min Active Threads attribute

Description

The smallest number of threads in the thread pool that were simultaneously active doing work.

Type

integer (32-bit counter) with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_MIN_ACTIVE_THREADS or TPMINAT

Thread Pool Min Queue Length attribute

Description

The minimum length the thread pool queue reached.

Туре

integer (32-bit counter) with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_MIN_QUEUE_LENGTH or TPMINQL

Thread Pool Queue Length attribute

Description

The number of jobs currently waiting in the thread pool queue.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_QUEUE_LENGTH or TPQLGTH

Thread Pool Size attribute

Description

The number of threads currently existing in the thread pool.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_SIZE or THPSIZE

Thread Pool Total Jobs attribute

Description

The number of jobs that are completed by all threads in the pool since agent start.

Type

integer (32-bit counter) with enumerated values. The following values are defined: NO DATA (-1), NO DATA (-100). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

THREAD_POOL_TOTAL_JOBS or TPTJOBS

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

UCS Servers Health Summary attribute group

This attribute group provides a health summary of the blade and rack-mount server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the UCS Servers Health Summary attribute group:

Admin State attribute

Description

The administrator status of the server.

Type

```
string
Warehouse name
```

ADMIN STATE or ADMINSTATE

Association State attribute

Description

The relationship between the server and the service profile.

Type

```
string
```

Warehouse name

ASSOCIATION or ASSOCSTATE

Availability State attribute

Description

The availability status of the server that is associated with a service profile.

Type

string Warehouse name AVAILABILITY or AVAILSTATE **Check Point attribute**

Description

The check point status of the server.

Type string

Warehouse name

CHECK_POINT or CHECKPOINT

Discovery State attribute

Description

The discovery status of the server.

Type

string Warehouse name

DISCOVERY or DISCVSTATE

FSM Stage Description attribute

Description

The description of the finite state machine (FSM) stage.

Туре

string

Warehouse name

FSMSTAGEDESCR or DESCRIPTIO

Health attribute

Description

The health status of the server. The yellow or red color highlighting indicates that a fault is generated in the blade, rack-mount server, respective subcomponents of blade or rack-mount, or associated service profile.

Type

string

Warehouse name

HEALTH or SRVRHEALTH

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Overall Status attribute

Description

The overall status of the server.

Туре

string

Warehouse name

OPERSTATE or OPER_STATE

Parent DN attribute This attribute is a key attribute.

Description

The distinguished name of the parent of the server.

Туре

string Warehouse name PARENT_DN or PARENTDNAT Power State attribute Description The power status of the server.

Type string Warehouse name OPERPOWER or POWRCSTATE Server DN attribute This attribute is a key attribute. Description The distinguished name of the server. Type string Warehouse name SERVER_DN or UCSSERVRDN Server ID attribute Description The ID of the server. Type string Warehouse name SERVER_ID or RCKMONT_ID Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the associated service profile. Type string Warehouse name SERVICE_PROFILE_DN or SERVICEPDN Slot Status attribute Description The slot status of the server. Type string Warehouse name SLOT_STATUS or SLOTSTATUS **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Top System attribute Description The distinguished name of the top-level system. Type string Warehouse name TOPSYSTEM or TOPSYSTEMD Total Faults attribute Description The total number of faults that are currently generated in the server and its subcomponents and associated service profile. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in

the User Interface

Warehouse name

TOTAL_FAULTS or SRVRFAULTS

UUID Suffix Pool Details attribute group

This attribute group provides details about the universally unique identifier (UUID) suffix pool. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the UUID Suffix Pool Details attribute group:

% Utilization attribute

Description

The percentage of UUID suffixes in the pool that are assigned to the service profiles.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

UTILIZATION or UTILIZTION

Assigned attribute

Description

The current number of UUIDs that have been assigned to a service profile.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

ASSIGNED or AASIIGNEDD

Health attribute

Description

The health status of the UUID suffix pool. The yellow or red color highlighting indicates that a fault is generated in the UUID suffix pool.

Type

string

Warehouse name

HEALTH or HEALTH_ATT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

ORG Root DN attribute This attribute is a key attribute.

Description

The distinguished name of the organization root.

Type

string Warehouse name ORG_ROOT_DN or ORGROOT_DN Pool Name attribute Description

The name of the UUID suffix pool.

Type string

Warehouse name

NAME or NAMEATRBBT

Size attribute

Description

The current number of unique identifiers in the UUID suffix pool.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

SIZE or SIZE_ATTRB

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute

Description

The total number of faults that are currently generated in the UUID suffix pool.

Туре

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or TOTAFAULTS

UUID Pool DN attribute This attribute is a key attribute.

Description

The distinguished name of the UUID suffix pool.

Туре

string

Warehouse name

UUID_POOL_DN or UUIDPOL_DN

UUID Prefix attribute

Description

The prefix for the UUID suffix pool.

Туре

string

Warehouse name

PREFIX or PREFIXEATR

VMware Datacenter Configuration Details attribute group

This attribute group provides the configuration details about the vCenter data center. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the VMware Datacenter Configuration Details attribute group:

Datacenter DN attribute This attribute is a key attribute. Description The distinguished name of the vCenter data center. Type string Warehouse name DATACENTER_DN or DATACERNTR **Description attribute** Description The description of the vCenter data center. Type string Warehouse name DESCRIPTION or DESCRIPTIN ExtVMMDN attribute This attribute is a key attribute. Description The distinguished name of the external virtual machine monitor (VMM). Type string Warehouse name EXTVMMDN or EXTNVMM_DN Name attribute Description The name of the vCenter data center. Type string Warehouse name NAME or DATACNNAME Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The type of the vCenter data center. Type string Warehouse name TYPE or TYPEATTRBT **UUID** attribute Description The UUID of the vCenter data center.

Type string Warehouse name UUID or UUIDATTRBT VCenter DN attribute This attribute is a key attribute. Description The distinguished name of the VMware vCenter. Type string Warehouse name VCENTER_DN or VMVCDNATTR VCenter Folder DN attribute This attribute is a key attribute. Description The distinguished name of the VMware vCenter folder that contains datacenter. Type string Warehouse name VCENTER FOLDER DN or VCFOLDERDN VMware DVS Configuration Details attribute group This attribute group provides the configuration details about the distributed virtual switch (DVS). Historical group This attribute group is eligible for use with Tivoli Data Warehouse. **Attribute descriptions** The following list contains information about each attribute in the VMware DVS Configuration Details attribute group: Datacenter DN attribute This attribute is a key attribute. Description The distinguished name of the vCenter data center. Type

> string Warehouse name

DATACENTER_DN or VMDCDNATTR

Description attribute

Description

The description of the DVS.

Type

string

Warehouse name

DESCRIPTION or DESCRIPTIN

DVS DN attribute This attribute is a key attribute.

Description

The distinguished name of the distributed virtual switch (DVS).

Туре

string Warehouse name

DVS DN or DVSDNATTRB

Extension Key attribute

Description

The key for the associated extension.

Туре

string Warehouse name

EXTENSION_KEY or EXTENSONKY

ExtVMMDN attribute This attribute is a key attribute.

Description The distinguished name of the external VMM. Type string Warehouse name EXTVMMDN or EXTNVMM_DN Folder DN attribute This attribute is a key attribute. Description The distinguished name of the vCenter folder. Type string Warehouse name FOLDER_DN or FLDRDNATTR Name attribute Description The name of the DVS. Type string Warehouse name NAME or DVSNAMEATT Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The type of the DVS as Organised or Unorganised. Type string Warehouse name TYPE or TYPEATTRBT **UUID** attribute Description The UUID of the DVS. Type string Warehouse name UUID or UUIDATTRBT VCenter DN attribute This attribute is a key attribute. Description The distinguished name of the VMware vCenter.

Туре

string

Warehouse name

VCENTER_DN or VMVCDNATTR

VCenter Folder DN attribute This attribute is a key attribute.

Description

The distinguished name of the VMware vCenter folder that contains datacenter.

Туре

string

Warehouse name

VCENTER_FOLDER_DN or VCFOLDERDN

VMware ESX Host Server Health Summary attribute group

This attribute group provides information about the ESX host server. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. **Attribute descriptions** The following list contains information about each attribute in the VMware ESX Host Server Health Summary attribute group: **Description attribute** Description The description of the ESX host server. Type string Warehouse name DESCR or ESXDESCRIP DVS DN attribute This attribute is a key attribute. Description The distinguished name of the distributed virtual switch (DVS). Type string Warehouse name DVS DN or DVSDNATTRB ESX Host DN attribute This attribute is a key attribute. Description The distinguished name of the ESX host server. Type string Warehouse name ESX_HOST_DN or ESXHOSTDNA Health attribute Description The health status of the ESX host server. The yellow and red color highlighting indicates that a fault is generated in the ESX host server. Type string Warehouse name HEALTH or ESXHEALTHA Name attribute Description The name of the ESX host server. Type

> string Warehouse name NAME or NAMEATTRBU

Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Server DN attribute This attribute is a key attribute. Description The distinguished name of the server. Type string Warehouse name BLADE_SERVER_DN or BLADEDNATT Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the associated service profile. Type string Warehouse name SERVICE PROFILE DN or LSDNATTRBT Status attribute Description The status of the ESX host server. Type string Warehouse name VSTATUS or VSTATUSATR **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the ESX host server. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name TOTAL_FAULTS or ESXFAULTSA **UUID** attribute Description The UUID of the ESX host server. Type string Warehouse name

UUID or UUIDATTRBT

Description

The distinguished name of the virtual machine monitor (VMM).

Type string

Warehouse name VMM_DN or VMMDNATTRB

VMware Folder Configuration Details attribute group

This attribute group provides the configuration details about the vCenter folder that contains distributed virtual switch (DVS).

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the VMware Folder Configuration Details attribute group:

Datacenter DN attribute This attribute is a key attribute.

Description

The distinguished name of the vCenter data center.

Туре

string

Warehouse name

DATACENTER_DN or VMDCDNATTR

Description attribute

Description

The description of the vCenter folder that contains distributed virtual switch (DVS).

Type

string

Warehouse name

DESCRIPTION or DESCRIPTIN

ExtVMMDN attribute This attribute is a key attribute.

Description

The distinguished name of the external VMM.

Туре

string

Warehouse name

EXTVMMDN or EXTNVMM_DN

Folder DN attribute This attribute is a key attribute.

Description

The distinguished name of the vCenter folder that contains distributed virtual switch (DVS).

Type

string

Warehouse name

FOLDER_DN or FOLDRDNATT

Name attribute

Description

The name of the vCenter folder that contains distributed virtual switch (DVS).

Туре

string

Warehouse name

NAME or FOLDR_NAME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name NODE

Owner attribute

Description

The name of the vCenter data center owner.

Type

string Warehouse name

OWN or OWN_ATTRBT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Type attribute

Description

The type of the vCenter folder as Organised or Unorganised.

Туре

string

Warehouse name

TYPE or TYPEATTRBT

UUID attribute

Description

The UUID of the vCenter folder that contains distributed virtual switch (DVS).

Туре

string

Warehouse name UUID or UUIDATTRBT

VCenter DN attribute This attribute is a key attribute.

Description

The distinguished name of the VMware vCenter.

Type

string

Warehouse name

VCENTER_DN or VMVCDNATTR

VCenter Folder DN attribute This attribute is a key attribute.

Description

The distinguished name of the VMware vCenter folder that contains datacenter. **Type**

string

Warehouse name

VCENTER_FOLDER_DN or VCFOLDERDN

VMware Port Profile Configuration Summary attribute group

This attribute group provides the configuration details about the port profiles. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions The following list contains information about each attribute in the VMware Port Profile Configuration Summary attribute group: Description attribute Description The description of the port profile. Type string Warehouse name DESCRIPTION or DESCRIPTIO Fabric DN attribute This attribute is a key attribute. Description The distinguished name of the fabric. Type string Warehouse name FABRIC DN or FABRICDNAT Host Network IO Performance attribute Description The I/O performance of the host network. Type string Warehouse name HOST NETWORK or HOSTNTWKDN Max Ports attribute Description The maximum number of ports that can be associated with the port profile. Type string Warehouse name MAX_PORTS or MAXPORTSAT Name attribute Description The name of the port profile. Type string Warehouse name NAME or NAME_ATTRB **Network Control Policy attribute** Description The name of the network control policy that is associated with the port profile. Type string Warehouse name NETWORK POLICY NAME or NETWRKPLCY

Network Control Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the network control policy.

Туре

string

Warehouse name

OPER_NWCTRL_POLICYNAME or NWCTRPLCDN

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Pin Group attribute

Description

The name of the pin group that is associated with the port profile.

Туре

string Warehouse name

PIN_GROUP or PINGROUPNM

Port Profile DN attribute This attribute is a key attribute.

Description

The distinguished name of the port profile.

Туре

string Warehouse name

PORT_PROFILE_DN or PROFILEDNA

QOS Policy attribute

Description

The name of the operating QoS policy that is associated with the port profile.

Туре

string

Warehouse name

QOS_POLICY or QOSPOLICYN QoS Policy DN attribute This attribute is a key attribute.

Description

The distinguished name of the QoS policy.

Туре

string

Warehouse name

OPER_QOS_POLICY_NAME or QOSPOLICDN

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

VMware Profile Client Configuration Details attribute group

This attribute group provides the configuration details about the profile clients of the port profiles. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the VMware Profile Client Configuration Details attribute group:

Datacenter Name attribute

Description

The vCenter data center name of the profile client.

Type

string

Warehouse name

Description attribute

Description

The description of the profile client.

Type

string Warehouse name

DESCRIPTION or DESCRATTRB

DVS Name attribute This attribute is a key attribute.

Description

The name of the DVS that is associated with the profile client.

Type

string

Warehouse name

DVS_NAME or DVSNAMEATT

Fabric DN attribute This attribute is a key attribute.

Description

The distinguished name of the fabric.

Type

string Warehouse name

FABRIC_DN or FABRICDNAT

Folder attribute

Description

The name of the vCenter data center folder that is associated with the profile client.

Type

string Warehouse name

FOLDER or FOLDERNAME

Name attribute

Description

The name of the profile client.

Туре

string

Warehouse name

NAME or NAMEATTRBT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Port Profile DN attribute This attribute is a key attribute.

Description

The distinguished name of the port profile that is associated with the vNIC interface.

Type

string

Warehouse name PORT PROFILE DN or PORTPROFDN Profile Client DN attribute This attribute is a key attribute. Description The distinguished name of the profile client. Type string Warehouse name PROFILE_CLIENT_DN or PROF_CL_DN Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP

VMware vCenter Folder Configuration Summary attribute group

This attribute group provides the configuration details about the vCenter folder that contains datacenter. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the VMware vCenter Folder Configuration Summary attribute group:

Description attribute

Description

The description of the vCenter folder that contains datacenter.

Type string

Warehouse name

DESCRIPTION or DESCRIPTIN

ExtVMMDN attribute This attribute is a key attribute.

Description

The distinguished name of the external VMM.

Туре

string

Warehouse name

EXTVMMDN or EXTNVMM_DN

Name attribute

Description

The name of the vCenter folder that contains datacenter.

Туре

string

Warehouse name

NAME or FOLDR_NAME

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name NODE **Owner** attribute Description The name of the vCenter data center owner. Type string Warehouse name OWN or OWN_ATTRBT **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **UUID** attribute Description The UUID of the vCenter folder that contains datacenter. Type string Warehouse name UUID or UUIDATTRBT VCenter DN attribute This attribute is a key attribute. Description The distinguished name of the VMware vCenter. Type string Warehouse name VCENTER_DN or VMVCDNATTR vCenter Folder DN attribute This attribute is a key attribute. Description The distinguished name of the vCenter folder that contains datacenter. Type string Warehouse name VCENTER_FOLDER_DN or VC_FOLDRDN VMware vCenter Health Summary attribute group This attribute group provides information about the VMware Virtual Center server(vCenter server).

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the VMware vCenter Health Summary attribute group:

Description attribute

Description

The description of the VMware vCenter server.

Type

string Warehouse name DESCRIPTION or DESCRIPTIO ExtVMMDN attribute This attribute is a key attribute.

Description

The distinguished name of the external virtual machine monitor (VMM).

Type string

Warehouse name

EXTVMMDN or EXTNVMM_DN

Health attribute

Description

The health status of the VMware vCenter server. The yellow and red color highlighting indicates that a fault is generated in the vCenter server.

Type

string

Warehouse name

HEALTH or VCENHEALTH

Hostname (or IP Address) attribute

Description

The host name or the IP address of the VMware vCenter server.

Type

string

Warehouse name HOST or HOSTATTRBT

Key attribute

Description

The extension key for the Virtual Network Link (VN-Link) to integrate Cisco UCS Manager with VMware vCenter server.

Type

string Warehouse name

KEY or KEYATTRBTT

Name attribute

Description

The name of the VMware vCenter server.

Туре

string

Warehouse name

NAME or NAMEATTRBT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Total Faults attribute
Description

The total number of faults that are currently generated in the VMware vCenter server.

Type

integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name

TOTAL_FAULTS or VCENFAULTS

vCenter DN attribute This attribute is a key attribute.

Description

The distinguished name of the VMware vCenter server.

Туре

string Warehouse name VCENTER_DN

VMware VIF Configuration Details attribute group

This attribute group provides the configuration details about the virtual interface (VIF). **Historical group** This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the VMware VIF Configuration Details attribute group:

Access Card Id attribute

Description

The ID of the access card that is associated with the VIF.

Type

string

Warehouse name

PHSACCESSCARDID or ACESCARDID

Access Port Id attribute

Description

The ID of the access port that is associated with the VIF.

Type

string

Warehouse name

PHSACCESSPORTID or ACESPORTID

Border Card Id attribute

Description

The ID of the border card that is associated with the VIF.

Type

string

Warehouse name

PHSBORDERCARDID or BORDRCRDID

Border Port Id attribute

Description

The ID of the border port that is associated with the VIF.

Type

string

Warehouse name

PHSBORDERPORTID or BORDRPRTID

Fabric ID attribute

Description

The ID of the fabric interconnect that is associated with the VIF.

Type string Warehouse name FABRIC_ID or FABRICIDAT Name attribute Description The name of the VIF. Type string Warehouse name NAME or NAMEATTRBT Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Parent DN attribute This attribute is a key attribute. Description The distinguished name of the parent of the vNIC. Type string Warehouse name PARENT_DN or PARENT_DNA Status attribute Description The status of the VIF. Type string Warehouse name STATUS or STATUSATTR **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP VIF DN attribute This attribute is a key attribute. Description The distinguished name of the virtual interface (VIF). Type string Warehouse name VIF_DN or VIF_DN_ATT VMM DN attribute This attribute is a key attribute. Description The distinguished name of the VMM. Type string

Warehouse name VMM_DN or VMM_DNATTR VNIC DN attribute This attribute is a key attribute.

Description

The distinguished name of the vNIC.

Туре

string Warehouse name VNIC_DN or VNIC_DNATT

VMware Virtual Machine Health Summary attribute group

This attribute group provides information about the virtual machine. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the VMware Virtual Machine Health Summary attribute group: **Description attribute** Description The description of the virtual machine. Type string Warehouse name DESCRIPTION or DESCRIPTIO DVS DN attribute This attribute is a key attribute. Description The distinguished name of the DVS. Type string Warehouse name DVS_DN or DVSDNATTRB ESX Host Server DN attribute This attribute is a key attribute. Description The distinguished name of the hypervisor (ESX host server). Type string Warehouse name ESX HOST DN or HVDNATTRBB Health attribute Description The health status of the virtual machine. The yellow and red color highlighting indicates that a fault is generated in the virtual machine. Type string Warehouse name HEALTH or VMHEALTHAT Name attribute Description

The name of the virtual machine.

Type

string **Warehouse name**

NAME or NAMEATTRBU

Node attribute This attribute is a key attribute.

Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Server DN attribute This attribute is a key attribute. Description The distinguished name of the server. Type string Warehouse name BLADE_SERVER_DN or BLADEDNATT Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the associated service profile. Type string Warehouse name SERVICE_PROFILE_DN or LSDNATTRBT Status attribute Description The status of the virtual machine. Type string Warehouse name VSTATUS or VSTATUSATR Timestamp attribute Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP **Total Faults attribute** Description The total number of faults that are currently generated in the virtual machine. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface Warehouse name TOTAL FAULTS or VMFAULTSAT **UUID** attribute Description The UUID of the virtual machine. Type string Warehouse name

UUID or UUIDATTRBT

Virtual Machine DN attribute This attribute is a key attribute.

Description The distinguished name of the virtual machine. Type string Warehouse name VIRTUAL_MACHINE_DN or VMDNATTRBB VMM DN attribute This attribute is a key attribute. Description The distinguished name of the VMM. Type string Warehouse name VMM_DN or VMMDNATTRB

VMware vLAN Configuration Details attribute group

This attribute group provides the configuration details about the virtual local area network (VLAN). **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the VMware vLAN Configuration Details attribute group:

Name attribute

Description

The name of the VLAN.

Туре

string

Warehouse name NAME or NAMEATTRBT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

NODE

Parent DN attribute This attribute is a key attribute.

Description

The distinguished name of the parent of the vNIC.

Туре

string

Warehouse name

PARENT_DN or PARENTDNAT

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

string

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

VLAN DN attribute This attribute is a key attribute.

Description

The distinguished name of the virtual LAN (VLAN).

Type string

Warehouse name

VLAN_DN or VLAN_DNATT

VMM DN attribute This attribute is a key attribute.

Description

The distinguished name of the VMM.

Type

string

Warehouse name VMM_DN or VMM_DNATTR

vNIC DN attribute This attribute is a key attribute.

Description

The distinguished name of the vNIC that is associated with the VLAN.

Туре

string

Warehouse name

VNIC_DN or VNICDNATTR

VMware vNIC Health Summary attribute group

This attribute group provides a health summary of the virtual network interface controller (vNIC). **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the VMware vNIC Health Summary attribute group:

Health attribute

Description

The health status of the vNIC.The yellow or red color highlighting indicates that a fault is generated in the vNIC.

Туре

string

Warehouse name

HEALTH or HEALTH_ATT

MAC attribute

Description

The MAC address of the vNIC.

Туре

string

Warehouse name

MACADDR or MACADDRESS

Name attribute

Description

The name of the vNIC.

Туре

string

Warehouse name

NAME or VNICNAMEAT

Node attribute This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

Source The source for this attribute is the agent. Warehouse name NODE Parent DN attribute This attribute is a key attribute. Description The distinguished name of the parent of the vNIC. Type string Warehouse name PARENT_DN or PARENTDNAT **Profile Name attribute** Description The name of the service profile that is associated with the vNIC. Type string Warehouse name PROFILE_NAME or NAME_ATTRB Service Profile DN attribute This attribute is a key attribute. Description The distinguished name of the service profile associated with the vNIC. Type string Warehouse name SERVICE_PROFILE_DN or SERVPROFDN Service Profile vNIC DN attribute This attribute is a key attribute. Description The distinguished name of the service profile vNIC. Type string Warehouse name SERVICE_PROFILE_VNICDN or SEPRVNICDN Status attribute Description The operational status of the vNIC. Type string Warehouse name VSTATUS or VSTATUSATT **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Total Faults attribute Description The total number of faults that are currently generated in the vNIC. Type integer (32-bit gauge) with enumerated values. The following values are defined: Not Available (-1). Any value that does not have a definition here is displayed in the User Interface

Warehouse name TOTAL FAULTS or TOTAFAULTS Type attribute This attribute is a key attribute. Description The type of the virtual network interface controller (vNIC) as ESXvNIC or VMvNIC. Type string Warehouse name TYPE or TYPEATTRBT Virtual Interface DN attribute This attribute is a key attribute. Description The distinguished name of the virtual interface card. Type string Warehouse name HOSTIFDN or INTERFACEC VMM DN attribute This attribute is a key attribute. Description The distinguished name of the VMM. Type string Warehouse name VMM DN or VMMDNATTRB vNIC DN attribute This attribute is a key attribute. Description The distinguished name of the vNIC. Type string Warehouse name VNIC_DN or VNICDNATTR VMware vNIC Interface Configuration Details attribute group

This attribute group provides the configuration details about the vNIC interface. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the VMware vNIC Interface Configuration Details attribute group: Address attribute Description The address of the vNIC interface. Type string Warehouse name ADDRESS or VNICIFADDR Fabric DN attribute This attribute is a key attribute. Description The distinguished name of the fabric. Type string Warehouse name

FABRIC_DN or FABRICDNAT

Name attribute

Description The name of the vNIC interface. Type string Warehouse name NAME or NAMEATTRBT Native VLAN attribute Description The native VLAN that is associated with the vNIC interface. Type string Warehouse name DEFAULTNET Node attribute This attribute is a key attribute. Description The managed system name of the agent. Type string Source The source for this attribute is the agent. Warehouse name NODE Port Profile DN attribute This attribute is a key attribute. Description The distinguished name of the port profile that is associated with the vNIC interface. Type string Warehouse name PORT_PROFILE_DN or PORTPROFDN **Timestamp attribute** Description The local time at the agent when the data was collected. Type string Source The source for this attribute is the agent. Warehouse name TIMESTAMP Type attribute Description The type of the vNIC interface. Type string Warehouse name TYPE or TYPEATTRBT vNIC Interface DN attribute This attribute is a key attribute. Description The distinguished name of the vNIC interface. Type string Warehouse name VNIC_INTERFACE_DN or VNIC_IF_DN

Disk capacity planning for historical data

Disk capacity planning for a monitoring agent is a prediction of the amount of disk space to be consumed by the historical data in each attribute group that is collecting historical data. Required disk storage is an important factor when you are defining data collection rules and your strategy for historical data collection.

The Capacity planning for historical data table provides the following information, which is required to calculate disk space for this monitoring agent:

Table Table name as it is displayed in the warehouse database, if the attribute group is configured to be written to the warehouse. The table name listed here corresponds to the table name in "Attribute groups for the monitoring agent" on page 39.

Attribute group

Name of the attribute group that is used to create the table in the warehouse database if it is short enough to fit in the table naming constraints of the database that is being used for the warehouse. The attribute group name listed here corresponds to the Warehouse table name in "Attribute groups for the monitoring agent" on page 39.

Bytes per row (agent)

Estimate of the record length for each row or instance that is written to the agent disk for historical data collection. This estimate can be used for agent disk space planning purposes.

Database bytes per row (warehouse)

Estimate of the record length for detailed records that are written to the warehouse database, if the attribute group is configured to be written to the warehouse. Detailed records are records that have been uploaded from the agent for long-term historical data collection. This estimate can be used for warehouse disk-space planning purposes.

Aggregate bytes per row (warehouse)

Estimate of the record length for aggregate records that are written to the warehouse database, if the attribute group is configured to be written to the warehouse. Aggregate records are created by the Summarization agent for attribute groups that have been configured for summarization. This estimate can be used for warehouse disk-space planning purposes.

In addition to the information in the tables, you must know the number of rows of data that you plan to collect. An attribute group can have single or multiple rows of data, depending on the application environment that is being monitored. For example, if your attribute group monitors each processor in your computer and you have a dual processor computer, the number of rows is two.

		Bytes per row	Database bytes per row	Aggregate bytes per row
Table	Attribute group	(agent)	(warehouse)	(warehouse)
KV6CHSFEXH	KV6_CHASSISANDFABRICEXTENDER_ HEALTH_SUMMARY	1512	1531	1919
KV6CHBKERS	KV6_CHASSIS_BACKPLANE_LAN_ERROR	812	824	1212
KV6CHBKLOS	KV6_CHASSIS_BACKPLANE_LAN_LOSS	808	819	1168
KV6CHBKPSE	KV6_CHASSIS_BACKPLANE_LAN_PAUSE	788	794	948
KV6BNTSTAT	KV6_CHASSIS_BACKPLANE_LAN_ STATISTICS	924	940	1445
KV6CHACNFD	KV6_CHASSIS_CONFIGURATION_DETAILS	580	582	658
KV6FANHELT	KV6_CHASSIS_FAN_HEALTH_SUMMARY	1480	1491	1567

Table 1. Capacity planning for historical data logged by the Cisco UCS agent

		Bytes per	Database bytes per row	Aggregate bytes per row
Table	Attribute group	(agent)	(warehouse)	(warehouse)
KV6FANMDCF	KV6_CHASSIS_FAN_MODULE_ CONFIGURATION	784	789	904
KV6CHFANHS	KV6_CHASSIS_FAN_MODULE_HEALTH	1280	1289	1365
KV6FNMDLSM	KV6_CHASSIS_FAN_MODULE_ TEMPERATURE	480	493	581
KV6FANSTAT	KV6_CHASSIS_FAN_STATISTICS	780	784	860
KV6CHHWFWD	KV6_CHASSIS_HARDWARE_FIRMWARE	1076	1082	1119
KV6CHASSD	KV6_CHASSIS_HEALTH_SUMMARY	1008	1021	1370
KV6BCKPLNP	KV6_CHASSIS_IO_BACKPLANE_PORT_ HEALTH	880	885	961
KV6CIOCNFD	KV6_CHASSIS_IO_MODULE_ CONFIGURATION	980	986	1062
KV6CHIOHSM	KV6_CHASSIS_IO_MODULE_HEALTH_ SUMMARY	1080	1087	1163
KV6IOMDTEM	KV6_CHASSIS_IO_MODULE_TEMPERATURE	584	611	750
KV6CHPOWER	KV6_CHASSIS_POWER_STATISTICS	288	325	515
KV6CHPSUCO	KV6_CHASSIS_PSU_CONFIGURATION	780	784	860
KV6CHPSHSM	KV6_CHASSIS_PSU_HEALTH_SUMMARY	1280	1289	1365
KV6PWSPUSM	KV6_CHASSIS_PSU_STATISTICS	600	679	1022
KV6CHSLDET	KV6_CHASSIS_SLOT_DETAILS	776	779	816
KV6CHSLTSM	KV6_CHASSIS_SLOT_UTILIZATION_ SUMMARY	876	880	917
KV6TOPOCLS	KV6_CISCO_UCS_TOPOLOGY	496	498	535
KV6FAULTS	KV6_FAULTS	1580	1592	1668
KV6FEXBPCL	KV6_FEX_BACKPLANE_PORT_CONFIG	1176	1183	1220
KV6FXBKERS	KV6_FEX_BACKPLANE_PORT_ERROR	812	824	1212
KV6FXBKLOS	KV6_FEX_BACKPLANE_PORT_LOSS	808	819	1168
KV6FXBKPSE	KV6_FEX_BACKPLANE_PORT_PAUSE	788	794	948
KV6FEXBCKS	KV6_FEX_BACKPLANE_STATISTICS	924	940	1445
KV6FEXENVR	KV6_FEX_ENVIRONMENT_STATISTICS	396	460	752
KV6FEXFPCF	KV6_FEX_FABRIC_PORT_CONFIG	1176	1183	1220
KV6FFANCON	KV6_FEX_FAN_CONFIGURATION_DETAILS	788	794	948
KV6FEXFANH	KV6_FEX_FAN_HEALTH_SUMMARY	1280	1289	1365
KV6FANSPED	KV6_FEX_FAN_SPEED_STATISTICS	580	582	658
KV6FEXFIRD	KV6_FEX_FIRMWARE	1076	1082	1119
KV6FEXHELH	KV6_FEX_HEALTH_SUMMARY	1196	1208	1440
KV6BCKPHSM	KV6_FEX_IO_BACKPLANE_PORT_HEALTH	880	885	961
KV6FPHLTSM	KV6_FEX_IO_FABRIC_PORT_HEALTH	1080	1087	1163
KV6FIOCNFD	KV6_FEX_IO_MODULE_CONFIGURATION	980	986	1062
KV6FIOHLTH	KV6_FEX_IO_MODULE_HEALTH_SUMMARY	1080	1087	1163

Table 1. Capacity planning for historical data logged by the Cisco UCS agent (continued)

T. 1.1.		Bytes per row	Database bytes per row	Aggregate bytes per row
			(warenouse)	(warenouse)
	KV6_FEA_IO_MODULE_TEMI ERATURE KV6_EEX_DSU_CONEICUDATION_DETAILS	694	699	802
KV6EPSUENIV	KV6_FEX_PSU_ENVIRONMENT	588	628	818
KV011 SUEINV	STATISTICS	500	020	010
KV6FEXPSUH	KV6_FEX_PSU_HEALTH_SUMMARY	1280	1289	1365
KV6CONFPRO	KV6_FI_CONFIGURATION_DETAILS	584	587	702
KV6FANCONF	KV6_FI_FAN_CONFIGURATION_DETAILS	784	789	904
KV6FNHELTH	KV6_FI_FAN_HEALTH_SUMMARY	984	991	1106
KV6EXPMODL	KV6_FI_FIXED_EXPANSION_ CONFIGURATION	984	991	1106
KV6FIXPORT	KV6_FI_FIXED_EXPANSION_PORT_ HEALTH	1180	1188	1264
KV6FIHWFWD	KV6_FI_HARDWARE_FIRMWARE	1676	1688	1725
KV6FIHESUM	KV6_FI_HEALTH_SUMMARY	584	587	702
KV6FILERRS	KV6_FI_LAN_ERROR_STATISTICS	612	622	1010
KV6LNHISST	KV6_FI_LAN_HIST_STATISTICS	604	624	1489
KV6FILLOSS	KV6_FI_LAN_LOSS_STATISTICS	608	617	966
KV6FILPAUS	KV6_FI_LAN_PAUSE_STATISTICS	588	592	746
KV6LANPCAG	KV6_FI_LAN_PORT_CHANNEL_AGGREGATE_ STATISTICS	340	346	727
KV6LANPCST	KV6_FI_LAN_PORT_CHANNEL_ STATISTICS	1304	1331	2196
KV6LANSTAT	KV6_FI_LAN_STATISTICS	724	738	1243
KV6FABPORT	KV6_FI_PORT_SUMMARY	296	299	531
KV6FIPORTU	KV6_FI_PORT_USAGE	480	481	557
KV6PSUCONF	KV6_FI_PSU_CONFIGURATION_DETAILS	684	688	803
KV6PSUHLTH	KV6_FI_PSU_HEALTH_SUMMARY	1084	1092	1207
KV6PSUSTAT	KV6_FI_PSU_STATISTICS	588	616	794
KV6SANEROR	KV6_FI_SAN_ERROR_STATISTICS	616	627	1054
KV6SNHISST	KV6_FI_SAN_HIST_STATISTICS	504	523	1388
KV6SANPCAG	KV6_FI_SAN_PORT_CHANNEL_AGGREGATE_ STATISTICS	340	346	727
KV6SANPCST	KV6_FI_SAN_PORT_CHANNEL_ STATISTICS	1204	1230	2095
KV6SANSTAT	KV6_FI_SAN_STATISTICS	592	597	790
KV6FSYSTEM	KV6_FI_SYSTEM_STATISTICS	292	306	511
KV6FITMPST	KV6_FI_TEMPERATURE_STATISTICS	308	410	855
KV6MACPOOL	KV6_MAC_POOL_DETAILS	492	496	689
KV6POBJST	KV6_PERFORMANCE_OBJECT_STATUS	352	399	664

Table 1. Capacity planning for historical data logged by the Cisco UCS agent (continued)

		Bytes per row	Database bytes per row	Aggregate bytes per row
Table	Attribute group	(agent)	(warehouse)	(warehouse)
KV6BIOSADV	KV6_POLICY_BIOS_ADVANCED_ CONFIGURATIONS	2876	2900	2937
KV6BIOSDET	KV6_POLICY_BIOS_CONFIGURATIONS	1576	1587	1624
KV6BIOSSUM	KV6_POLICY_BIOS_CONFIGURATION_ SUMMARY	1076	1082	1119
KV6BOOTPCS	KV6_POLICY_BOOT_CONFIGURATION_ SUMMARY	576	577	614
KV6ISCBPOC	KV6_POLICY_BOOT_ORDER_ CONFIGURATION_DETAILS	1076	1082	1119
KV6IPMIACS	KV6_POLICY_IPMI_ACCESS_PROFILE_ CONFIGURATION_SUMMARY	476	476	513
KV6IPMIUSR	KV6_POLICY_IPMI_USER_ CONFIGURATION_DETAILS	776	779	816
KV6ISCICFS	KV6_POLICY_ISCSI_BOOT_ORDER_ CONFIGURATION_SUMMARY	576	577	614
KV6ISCBSTC	KV6_POLICY_ISCSI_STATIC_TARGET_ INTERFACE_CONFIGURATION_DETAILS	976	981	1018
KV6ISCVNCS	KV6_POLICY_ISCSI_VNIC_ CONFIGURATION_SUMMARY	1676	1688	1725
KV6LANBTOS	KV6_POLICY_LAN_BOOT_ORDER_ CONFIGURATION_SUMMARY	576	577	614
KV6QOSPOLC	KV6_POLICY_QOS_CONFIGURATION_ DETAILS	776	779	816
KV6SCRUBPO	KV6_POLICY_SCRUB_CONFIGURATION_ DETAILS	676	678	715
KV6SOLPOLC	KV6_POLICY_SERIAL_OVER_LAN_ CONFIGURATION_DETAILS	680	683	759
KV6STRBTOS	KV6_POLICY_STORAGE_BOOT_ORDER_ CONFIGURATION_SUMMARY	576	577	614
KV6VHOSTIF	KV6_POLICY_VIRTUAL_HOST_INTERFACE_ CONFIGURATION_DETAILS	676	678	715
KV6VMBOTOS	KV6_POLICY_VIRTUAL_MEDIA_BOOT_ ORDER_CONFIGURATION_DETAILS	576	577	614
KV6PLACMNT	KV6_POLICY_VNICVHBA_PLACEMENT_ CONFIGURATION_SUMMARY	476	476	513
KV6INITCNF	KV6_POOL_INITIATOR_CONFIGURATION_ DETAILS	976	981	1018
KV6MACADCF	KV6_POOL_MAC_ADDRESS_ CONFIGURATION_DETAILS	676	678	715
KV6MACCNFD	KV6_POOL_MAC_CONFIGURATION_ DETAILS	776	779	816
KV6SRPLCNF	KV6_POOL_SERVER_CONFIGURATION_ DETAILS	976	981	1018
KV6UUBKCNF	KV6_POOL_UUID_BLOCK_CONFIGURATION_ DETAILS	676	678	715

Table 1. Capacity planning for historical data logged by the Cisco UCS agent (continued)

		Bytes per	Database bytes per row	Aggregate bytes per row
Table	Attribute group	(agent)	(warehouse)	(warehouse)
KV6UUIDSFX	KV6_POOL_UUID_SUFFIX_ CONFIGURATION_DETAILS	776	779	816
KV6WWNINBC	KV6_POOL_WWN_INITIATOR_BLOCK_ CONFIGURATION_DETAILS	676	678	715
KV6RMICDCN	KV6_RM_SERVER_ADAPTER_ CONFIGURATION	784	789	904
KV6RMADPTR	KV6_RM_SERVER_ADAPTER_HEALTH_ SUMMARY	780	784	860
KV6BIOSUNT	KV6_RM_SERVER_BIOS_FIRMWARE	676	678	715
KV6RMCONFI	KV6_RM_SERVER_CONFIGURATION_ DETAILS	880	885	961
KV6RMCPUCN	KV6_RM_SERVER_CPU_CONFIGURATION	1100	1124	1407
KV6RCKMCPU	KV6_RM_SERVER_CPU_HEALTH_SUMMARY	1080	1087	1163
KV6RMCPUEN	KV6_RM_SERVER_CPU_STATISTICS	684	712	851
KV6RMDCEIN	KV6_RM_SERVER_DCE_INTERFACE_ HEALTH	1480	1491	1567
KV6RMSDCFD	KV6_RM_SERVER_DISK_CONFIGURATION	1288	1299	1453
KV6RMDSHLT	KV6_RM_SERVER_DISK_HEALTH_SUMMARY	880	885	961
KV6RMETPCM	KV6_RM_SERVER_ETHER_PORT_COMM	988	996	1150
KV6RMETPER	KV6_RM_SERVER_ETHER_PORT_ERROR	988	996	1150
KV6RMETHLG	KV6_RM_SERVER_ETHER_PORT_LARGE	1004	1016	1326
KV6RMETPOS	KV6_RM_SERVER_ETHER_PORT_OUTSIZED	996	1006	1238
KV6RMETPPS	KV6_RM_SERVER_ETHER_PORT_PACKETS	1000	1011	1282
KV6RMETPSM	KV6_RM_SERVER_ETHER_PORT_SMALL	1000	1011	1282
KV6RMFANCF	KV6_RM_SERVER_FAN_CONFIGURATION	1080	1087	1163
KV6RMFANHL	KV6_RM_SERVER_FAN_HEALTH_SUMMARY	1480	1491	1567
KV6RMFMCNF	KV6_RM_SERVER_FAN_MODULE_DETAILS	784	789	904
KV6RMFANMD	KV6_RM_SERVER_FAN_MODULE_HEALTH	1180	1188	1264
KV6RMFANTM	KV6_RM_SERVER_FAN_MODULE_ TEMPERATURE	480	493	581
KV6RMFANST	KV6_RM_SERVER_FAN_STATISTICS	780	784	860
KV6RMFCPRT	KV6_RM_SERVER_FC_PORT_STATISTICS	892	900	1093
KV6RMHWFWD	KV6_RM_SERVER_FIRMWARE	1076	1082	1119
KV6RMHBACN	KV6_RM_SERVER_HBA_CONFIGURATION	1980	1996	2072
KV6RMHBSUM	KV6_RM_SERVER_HBA_HEALTH_SUMMARY	1480	1491	1567
KV6RACMONT	KV6_RM_SERVER_HEALTH_SUMMARY	1180	1188	1264
KV6MMARYUN	KV6_RM_SERVER_MEMORY_ARRAY_HEALTH	880	885	961
KV6RMAUICS	KV6_RM_SERVER_MEMORY_ARRAY_ STATISTICS	680	695	783
KV6RMMEMUN	KV6_RM_SERVER_MEMORY_ARRAY_UNIT	892	900	1093

Table 1. Capacity planning for historical data logged by the Cisco UCS agent (continued)

		Bytes per row	Database bytes per row	Aggregate bytes per row
Table	Attribute group	(agent)	(warehouse)	(warehouse)
KV6RMMEMUD	KV6_RM_SERVER_MEMORY_UNIT_DETAILS	1196	1208	1440
KV6MUNHLTH	KV6_RM_SERVER_MEMORY_UNIT_HEALTH	1580	1592	1668
KV6RMUNITE	KV6_RM_SERVER_MEMORY_UNIT_TEMP	880	897	985
KV6RMMTHRD	KV6_RM_SERVER_MOTHERBOARD_DETAILS	780	784	860
KV6MTHRBRD	KV6_RM_SERVER_MOTHERBOARD_HEALTH	980	986	1062
KV6RMMOTHB	KV6_RM_SERVER_MOTHERBOARD_POWER	488	515	693
KV6RMMOHTE	KV6_RM_SERVER_MOTHERBOARD_TEMP	496	561	853
KV6RMNICCN	KV6_RM_SERVER_NIC_CONFIGURATION	1680	1693	1769
KV6RCKMNIC	KV6_RM_SERVER_NIC_HEALTH_SUMMARY	1380	1390	1466
KV6RMPSUCN	KV6_RM_SERVER_PSU_CONFIGURATION	780	784	860
KV6RMPSUHL	KV6_RM_SERVER_PSU_HEALTH_SUMMARY	1280	1289	1365
KV6RMPSUST	KV6_RM_SERVER_PSU_STATISTICS	600	679	1022
KV6RMSTCON	KV6_RM_SERVER_STORAGE_CONTROLLER	1180	1188	1264
KV6RMDISKC	KV6_RM_SERVER_STORAGE_DISK	1180	1188	1264
KV6RMTDISK	KV6_RM_SERVER_STORAGE_DISK_HEALTH	1080	1087	1163
KV6RMSTOCO	KV6_RM_SERVER_STORAGE_HEALTH_ SUMMARY	1280	1289	1365
KV6RMVNICS	KV6_RM_SERVER_VNIC_STATISTICS	908	920	1269
KV6RMSCFMD	KV6_RM_STORAGE_FIRMWARE	1076	1082	1119
KV6SANPOOL	KV6_SAN_POOL_DETAILS	592	597	790
KV6ICDCNFD	KV6_SERVER_ADAPTER_CONFIGURATION	984	991	1106
KV6INCHESM	KV6_SERVER_ADAPTER_HEALTH_SUMMARY	980	986	1062
KV6BSCONFI	KV6_SERVER_CONFIGURATION_DETAILS	1080	1087	1163
KV6BSCPUCN	KV6_SERVER_CPU_CONFIGURATION_ DETAILS	1300	1326	1609
KV6CPUHESM	KV6_SERVER_CPU_HEALTH_SUMMARY	1280	1289	1365
KV6CPUENVS	KV6_SERVER_CPU_STATISTICS	884	914	1053
KV6DCEHSUM	KV6_SERVER_DCE_INTERFACE_SUMMARY	1176	1183	1220
KV6BSDISKC	KV6_SERVER_DISK_CONFIGURATION	1488	1501	1655
KV6DSKHESM	KV6_SERVER_DISK_HEALTH_SUMMARY	1280	1289	1365
KV6BSETPCM	KV6_SERVER_ETHER_PORT_ COMMUNICATION	1188	1198	1352
KV6BSETPER	KV6_SERVER_ETHER_PORT_ERROR	1188	1198	1352
KV6BSETPLS	KV6_SERVER_ETHER_PORT_LARGE	1204	1218	1528
KV6BSETPOS	KV6_SERVER_ETHER_PORT_OUTSIZED	1196	1208	1440
KV6BSETPPS	KV6_SERVER_ETHER_PORT_PACKETS	1200	1213	1484
KV6BSETPSM	KV6_SERVER_ETHER_PORT_SMALL	1200	1213	1484
KV6FCPRTST	KV6_SERVER_FC_PORT_STATISTICS	1092	1102	1295
KV6BSHWFWD	KV6_SERVER_HARDWARE_FIRMWARE	1276	1284	1321

Table 1. Capacity planning for historical data logged by the Cisco UCS agent (continued)

		Bytes per row	Database bytes per row	Aggregate bytes per row
Table	Attribute group	(agent)	(warehouse)	(warehouse)
KV6HBACNFD	KV6_SERVER_HBA_CONFIGURATION_ DETAILS	2180	2198	2274
KV6HBAHSUM	KV6_SERVER_HBA_HEALTH_SUMMARY	1680	1693	1769
KV6BLSHESM	KV6_SERVER_HEALTH_SUMMARY	1380	1390	1466
KV6MEMAICS	KV6_SERVER_MEMORY_ARRAY_ STATISTICS	880	897	985
KV6BSMEMAR	KV6_SERVER_MEMORY_ARRAY_UNIT_ DETAILS	1092	1102	1295
KV6MEAHESM	KV6_SERVER_MEMORY_ARRAY_UNIT_ HEALTH	1080	1087	1163
KV6BSMEMUN	KV6_SERVER_MEMORY_UNIT_ CONFIGURATION	1396	1410	1642
KV6MEMTMPS	KV6_SERVER_MEMORY_UNIT_ TEMPERATURE	1080	1099	1187
KV6BSMTHRD	KV6_SERVER_MOTHERBOARD_ CONFIGURATION	980	986	1062
KV6MOTHESM	KV6_SERVER_MOTHERBOARD_HEALTH	1180	1188	1264
KV6MBPOWST	KV6_SERVER_MOTHERBOARD_POWER	688	729	919
KV6MBTEMST	KV6_SERVER_MOTHERBOARD_ TEMPERATURE	692	746	987
KV6NICCNFD	KV6_SERVER_NIC_CONFIGURATION_ DETAILS	1880	1895	1971
KV6NICHSUM	KV6_SERVER_NIC_HEALTH_SUMMARY	1580	1592	1668
KV6SERPOLD	KV6_SERVER_POOL_DETAILS	492	496	689
KV6BSSTCON	KV6_SERVER_STORAGE_CONTROLLER	1380	1390	1466
KV6STCHESM	KV6_SERVER_STORAGE_CONTROLLER_ HEALTH	1480	1491	1567
KV6VNICSTS	KV6_SERVER_VNIC_STATISTICS	1108	1122	1471
KV6VHBAHLT	KV6_SERVICE_PROFILES_VHBA_HEALTH_ SUMMARY	880	885	961
KV6VNICHLT	KV6_SERVICE_PROFILES_VNIC_HEALTH_ SUMMARY	880	885	961
KV6SERPRLH	KV6_SERVICE_PROFILE_HEALTH	1780	1794	1870
KV6ALRMTRG	KV6_SYS_MON_ALARM_TRIGGER_ CONFIGURATION_DETAILS	976	981	1018
KV6APPSPCD	KV6_SYS_MON_APPLIANCE_PORT_ CONFIGURATION_DETAILS	876	880	917
KV6CRFEXCD	KV6_SYS_MON_CORE_FILE_EXPORTER_ CONFIGURATION_DETAILS	876	880	917
KV6FOLTPLC	KV6_SYS_MON_FAULT_COLLECTION_ POLICY_CONFIGURATION_DETAILS	776	779	816
KV6FCSTGCD	KV6_SYS_MON_FCOE_STORAGE_PORT_ CONFIGURATION_DETAILS	876	880	917

Table 1. Capacity planning for historical data logged by the Cisco UCS agent (continued)

		Bytes per row	Database bytes per row	Aggregate bytes per row
		(agent)	(warehouse)	(warenouse)
KV6LNPRICH	KV6_SYS_MON_PORT_CHANNEL_ CONFIGURATION_DETAILS_LAN	676	678	715
KV6SNPRTCH	KV6_SYS_MON_PORT_CHANNEL_ CONFIGURATION_DETAILS_SAN	676	678	715
KV6SMSPCND	KV6_SYS_MON_SERVER_PORT_ CONFIGURATION_DETAILS	876	880	917
KV6SANSTGP	KV6_SYS_MON_STORAGE_PORT_ CONFIGURATION_DETAILS	976	981	1018
KV6SLDCNFD	KV6_SYS_MON_SYSLOG_LOCAL_ DESTINATION_CONFIGURATION_DETAILS	876	880	917
KV6SLSCNFD	KV6_SYS_MON_SYSLOG_LOCAL_SOURCES_ CONFIGURATION_DETAILS	776	779	816
KV6SRDCNFD	KV6_SYS_MON_SYSLOG_REMOTE_ DESTINATION_CONFIGURATION_DETAILS	976	981	1018
KV6THRPOLC	KV6_SYS_MON_THRESHOLD_POLICY_ CONFIGURATION_SUMMARY	476	476	513
KV6THRPOLD	KV6_SYS_MON_THRESHOLD_POLICY_ DEFINITION_CONFIGURATION_SUMMARY	676	678	715
KV6TRMNLHS	KV6_SYS_MON_TRAFFIC_MONITORING_ SESSION_HEALTH_SUMMARY_LAN	980	986	1062
KV6TFMNSHS	KV6_SYS_MON_TRAFFIC_MONITORING_ SESSION_HEALTH_SUMMARY_SAN	980	986	1062
KV6UEPLPCD	KV6_SYS_MON_UPLINK_ETHERNET_PORT_ CONFIGURATION_DETAILS	876	880	917
KV6UEPSPCD	KV6_SYS_MON_UPLINK_FC_PORT_ CONFIGURATION_DETAILS	876	880	917
KV6LVHBCND	KV6_SYS_MON_VHBA_CONFIGURATION_ DETAILS	776	779	816
KV6VLANCFD	KV6_SYS_MON_VLAN_CONFIGURATION_ DETAILS	676	678	715
KV6NCSRPCH	KV6_SYS_MON_VNIC_CONFIGURATION_ DETAILS	776	779	816
KV6VSANCFD	KV6_SYS_MON_VSAN_CONFIGURATION_ DETAILS	676	678	715
KV6THPLST	KV6_THREAD_POOL_STATUS	124	168	550
KV6UCSSRVR	KV6_UCS_SERVERS_HEALTH_SUMMARY	1580	1592	1668
KV6UIDSUFX	KV6_UUID_SUFFIX_POOL_DETAILS	592	597	790
KV6DATACNT	KV6_VMWARE_DATACENTER_ CONFIGURATION_DETAILS	876	880	917
KV6DVSSMRY	KV6_VMWARE_DVS_CONFIGURATION_ DETAILS	1176	1183	1220
KV6ESXSUMR	KV6_VMWARE_ESX_HOST_SERVER_HEALTH_ SUMMARY	1080	1087	1163

Table 1. Capacity planning for historical data logged by the Cisco UCS agent (continued)

		Bytes per	Database bytes per	Aggregate bytes per
		row	row	row
Table	Attribute group	(agent)	(warehouse)	(warehouse)
KV6FOLDERT	KV6_VMWARE_FOLDER_CONFIGURATION_ DETAILS	1076	1082	1119
KV6PORTPRF	KV6_VMWARE_PORT_PROFILE_ CONFIGURATION_SUMMARY	1176	1183	1220
KV6PROFLCL	KV6_VMWARE_PROFILE_CLIENT_ CONFIGURATION_DETAILS	876	880	917
KV6VCFOLDR	KV6_VMWARE_VCENTER_FOLDER_ CONFIGURATION_SUMMARY	776	779	816
KV6VCENSUM	KV6_VMWARE_VCENTER_HEALTH_ SUMMARY	780	784	860
KV6VIFSUMR	KV6_VMWARE_VIF_CONFIGURATION_ DETAILS	1176	1183	1220
KV6VIRMCSM	KV6_VMWARE_VIRTUAL_MACHINE_ HEALTH_SUMMARY	1180	1188	1264
KV6VLANSUM	KV6_VMWARE_VLAN_CONFIGURATION_ DETAILS	576	577	614
KV6VNICHLH	KV6_VMWARE_VNIC_HEALTH_SUMMARY	1280	1289	1365
KV6VNICINF	KV6_VMWARE_VNIC_INTERFACE_ CONFIGURATION_DETAILS	776	779	816

Table 1. Capacity planning for historical data logged by the Cisco UCS agent (continued)

For more information about historical data collection, see "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide*.

Chapter 5. Situations reference

A situation is a logical expression involving one or more system conditions. Situations are used to monitor the condition of systems in your network. You can manage situations from the Tivoli Enterprise Portal by using the Situation Editor or from the command-line interface using the tacmd commands for situations. You can manage private situations in the private configuration XML file.

About situations

The monitoring agents that you use to monitor your system environment include a set of predefined situations that you can use as-is. You can also create new situations to meet your requirements.

Predefined situations contain attributes that check for system conditions common to many enterprises. Using predefined situations can improve the speed with which you can begin using the IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS. You can change the conditions or values being monitored by a predefined situation to the conditions or values best suited to your enterprise.

You can display predefined situations and create your own situations using the Situation editor. The Situation editor initially lists the situations associated with the Navigator item that you selected. When you click a situation name or create a situation, a panel opens with the following tabs:

Formula

Formula describing the condition being tested.

Distribution

List of managed systems (operating systems, subsystems, or applications) to which the situation can be distributed. All the Cisco UCS agent managed systems are assigned by default.

Expert advice

Comments and instructions to be read in the event workspace.

Action

Command to be sent to the system.

EIF Customize forwarding of the event to an Event Integration Facility receiver. (Available when the Tivoli Enterprise Monitoring Server is configured to forward events.)

Until Options to close the event after a period of time, or when another situation becomes true.

Additional information about situations

The *Tivoli Enterprise Portal User's Guide* contains more information about predefined and custom situations and how to use them to respond to alerts.

For a list of the predefined situations and information about each individual situation for this monitoring agent, see "Predefined situations."

Predefined situations

The monitoring agent contains predefined situations, which are organized by Navigator item.

- Cisco UCS
 - Not applicable
- Blade Servers
 - KV6_Blade_Server_Health_R

- KV6_Blade_Server_Health_Y
- KV6_Motherboard_Health_R
- KV6_Motherboard_Health_Y
- KV6_Memory_Array_Unit_Health_R
- KV6_Memory_Array_Unit_Health_Y
- KV6_Server_CPU_Health_R
- KV6_Server_CPU_Health_Y
- KV6_Server_Storage_Health_R
- KV6_Server_Storage_Health_Y
- KV6_Server_Disk_Health_R
- KV6_Server_Disk_Health_Y
- KV6_Server_Adapter_Health_R
- KV6_Server_Adapter_Health_Y
- KV6_Server_NIC_Health_R
- KV6_Server_NIC_Health_Y
- KV6_Server_HBA_Health_R
- KV6_Server_HBA_Health_Y
- KV6_Server_Ether_Port_Errors
- KV6_Server_NIC_Outsized_Hw
- KV6_Server_NIC_Outsized_Dup
- KV6_Server_NIC_Outsized_Jumbo
- KV6_Server_NIC_Outsized_Malf
- KV6_Server_NIC_Pause_Packets
- KV6_Server_HBA_Bad_Frames
- KV6_Server_Card_Errors_Buffer
- KV6_Server_Card_Errors_Hrdw
- Chassis
 - KV6_Chassis_Health_R
 - KV6_Chassis_Health_Y
 - KV6_Chassis_IO_Module_Health_R
 - KV6_Chassis_IO_Module_Health_Y
 - KV6_Chassis_PSU_Health_R
 - KV6_Chassis_PSU_Health_Y
 - KV6_Chassis_FanModule_Health_R
 - KV6_Chassis_FanModule_Health_Y
 - KV6_Chassis_Fan_Health_R
 - KV6_Chassis_Fan_Health_Y
 - KV6_Chassis_IOBkplane_Health_R
 - KV6_Chassis_IOBkplane_Health_Y
 - KV6_Chassis_Backplane_Erors_Hw
 - KV6_Chassis_Backplane_Erors_Br
 - KV6_Chassis_Bckplane_Erors_Dup
 - KV6_Chassis_Backplane_Loses_Dp
 - KV6_Chassis_Backplane_Loses_Hw
 - KV6_Chassis_Bkplane_Pauses_Rcv

- KV6_Chassis_Bkplane_Pauses_Trm
- Fabric Extender
 - KV6_FEX_Health_Summary_R
 - KV6_FEX_Health_Summary_Y
 - KV6_FEX_Fan_Health_Summary_R
 - KV6_FEX_Fan_Health_Summary_Y
 - KV6_FEX_IO_Module_Health_R
 - KV6_FEX_IO_Module_Health_Y
 - KV6_FEX_PSU_Health_Summary_R
 - KV6_FEX_PSU_Health_Summary_Y
 - KV6_FEX_Port_Health_R
 - KV6_FEX_Port_Health_Y
 - KV6_FEX_Fabric_Port_Health_R
 - KV6_FEX_Fabric_Port_Health_Y
 - KV6_FEX_Backplane_Erors_Hw
 - KV6_FEX_Backplane_Erors_Br
 - KV6_FEX_Bckplane_Erors_Dup
 - KV6_FEX_Backplane_Loses_Dp
 - KV6_FEX_Backplane_Loses_Hw
 - KV6_FEX_Bkplane_Pauses_Rcv
 - KV6_FEX_Bkplane_Pauses_Trm
- Fabric Interconnects
 - KV6_FI_Health_R
 - KV6_FI_Health_Y
 - KV6_FI_Fan_Health_R
 - KV6_FI_Fan_Health_Y
 - KV6_FI_PSU_Health_R
 - KV6_FI_PSU_Health_Y
 - KV6_FI_Module_Health_R
 - KV6_FI_Module_Health_Y
 - KV6_FI_LAN_Port_Errors_Hw
 - KV6_FI_LAN_Port_Errors_Bff
 - KV6_FI_LAN_Port_Errors_Dup
 - KV6_FI_LAN_Port_Losses_Dup
 - KV6_FI_LAN_Port_Losses_Hw
 - KV6_FI_LAN_Port_Pauses_Rcv
 - KV6_FI_LAN_Port_Pauses_Trm
 - KV6_TraficMonSesn_Health_LAN_R
 - KV6_TraficMonSesn_Health_LAN_Y
 - KV6_TraficMonSesn_Health_SAN_R
 - KV6_TraficMonSesn_Health_SAN_Y
- Faults
 - Not applicable
- Performance Object Status
 - Not applicable

- Rack Mount Servers
 - KV6_RM_Health_R
 - KV6_RM_Health_Y
 - KV6_RM_Motherboard_Health_R
 - KV6_RM_Motherboard_Health_Y
 - KV6_RM_CPU_Health_R
 - KV6_RM_CPU_Health_Y
 - KV6_RM_Memory_AU_Health_R
 - KV6_RM_Memory_AU_Health_Y
 - KV6_RM_Storage_Cntrlr_Health_R
 - KV6_RM_Storage_Cntrlr_Health_Y
 - KV6_RM_SC_Disk_Health_R
 - KV6_RM_SC_Disk_Health_Y
 - KV6_RM_Fan_Module_Health_R
 - KV6_RM_Fan_Module_Health_Y
 - KV6_RM_Fan_Health_R
 - KV6_RM_Fan_Health_Y
 - KV6_RM_Adapter_Health_R
 - KV6_RM_Adapter_Health_Y
 - KV6_RM_PSU_Health_R
 - KV6_RM_PSU_Health_Y
 - KV6_RM_DCE_Interface_Health_R
 - KV6_RM_DCE_Interface_Health_Y
 - KV6_RM_NIC_Health_R
 - KV6_RM_NIC_Health_Y
 - KV6_RM_Ether_Port_Errors
 - KV6_RM_NIC_Outsized_Hw
 - KV6_RM_NIC_Outsized_Dup
 - KV6_RM_NIC_Outsized_Jumbo
 - KV6_RM_NIC_Outsized_Malf
 - KV6_RM_NIC_Pause_Packets
 - KV6_RM_HBA_Bad_Frames
 - KV6_RM_Card_Errors_Buffer
 - KV6_RM_Card_Errors_Hrdw
 - KV6_RM_Disk_Health_R
 - KV6_RM_Disk_Health_Y
- Server and Identifier Pools
 - KV6_Server_Pool_Health_R
 - KV6_Server_Pool_Health_Y
 - KV6_UUID_Suffix_Pool_Health_R
 - KV6_UUID_Suffix_Pool_Health_Y
 - KV6_MAC_Pool_Health_R
 - KV6_MAC_Pool_Health_Y
 - KV6_SAN_Pool_Health_R
 - KV6_SAN_Pool_Health_Y

- Service Profiles
 - KV6_Service_Profile_Health_R
 - KV6_Service_Profile_Health_Y
- VMware
 - KV6_VMware_vCenter_Health_R
 - KV6_VMware_vCenter_Health_Y
 - KV6_VMware_ESX_Host_Health_R
 - KV6_VMware_ESX_Host_Health_Y
 - KV6_VMware_VM_Health_R
 - KV6_VMware_VM_Health_Y
 - KV6_VMware_vNIC_Health_R
 - KV6_VMware_vNIC_Health_Y

Situation descriptions

Each situation description provides information about the situation that you can use to monitor the condition of systems in your network.

The situation descriptions provide the following information:

Description

Information about the conditions that the situation tests.

Formula

Syntax that contains one or more logical expressions that describe the conditions for the situation to monitor.

Distribution

Whether the situation is automatically distributed to instances of the agent or is available for manual distribution.

Run at startup

Whether the situation starts monitoring when the agent starts.

Sampling interval

Number of seconds that elapse between one sample of data that the monitoring agent collects for the server and the next sample.

Situation persistence

Whether the conditions specified in the situation evaluate to "true" for the defined number of occurrences in a row before the situation is raised. The default of one means that no persistence-checking takes place.

Severity

Severity of the predefined events: Warning, Informational, or Critical.

Clearing conditions

Controls when a true situation closes: after a period, when another situation is true, or whichever occurs first if both are selected.

Cisco UCS Navigator item

No predefined situations are included for this Navigator item.

Blade Servers Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant. **KV6_Blade_Server_Health_R situation**

Description

Critical or major faults occurred in blade server.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6 SERVER HEALTH SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Blade_Server_Health_Y situation

Description

Information, warning, or minor faults occurred in blade server.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6 SERVER HEALTH SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Motherboard_Health_R situation

Description

Critical or major faults occurred in blade server motherboard.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_MOTHERBOARD_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Motherboard_Health_Y situation

Description

Warning or minor faults occurred in blade server motherboard.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_MOTHERBOARD_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Memory_Array_Unit_Health_R situation

Description

Critical or major faults occurred in server memory array unit.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_MEMORY_ARRAY_UNIT_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Memory_Array_Unit_Health_Y situation

Description

Warning or minor faults occurred in server memory array unit.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_MEMORY_ARRAY_UNIT_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_CPU_Health_R situation

Description

Critical or major faults occurred in the blade server CPU.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_CPU_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_CPU_Health_Y situation

Description

Warning or minor faults occurred in the blade server CPU.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_CPU_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Storage_Health_R situation

Description

Critical or major faults occurred in server storage controller.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_STORAGE_CONTROLLER_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Storage_Health_Y situation

Description

Warning or minor faults occurred in server storage controller.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_STORAGE_CONTROLLER_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Disk_Health_R situation

Description

Critical or major faults occurred in the server disk.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_DISK_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Disk_Health_Y situation

Description

Warning or minor faults occurred in the server disk.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_DISK_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Adapter_Health_R situation

Description

Critical or major faults occurred in the server adapter.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6 SERVER ADAPTER HEALTH SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Adapter_Health_Y situation

Description

Warning or minor faults occurred in the server adapter.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6 SERVER ADAPTER HEALTH SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_NIC_Health_R situation

Description

Critical or major faults occurred in the server NIC.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_NIC_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_NIC_Health_Y situation

Description

Warning or minor faults occurred in the server NIC.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_NIC_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_HBA_Health_R situation

Description

Critical or major faults occurred in the server HBA.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_HBA_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_HBA_Health_Y situation

Description

Warning or minor faults occurred in the server HBA.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_HBA_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Ether_Port_Errors situation

Description

Error occurred due to bad hardware.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_ETHER_PORT_ERROR.Bad_CRC_Packets_Delta *GT 0 *OR *VALUE KV6_SERVER_ETHER_PORT_ERROR.Bad_Length_Packets_Delta *GT 0 *OR *VALUE KV6_SERVER_ETHER_PORT_ERROR.MAC_Discard_Packets_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_NIC_Outsized_Hw situation

Description

Error occurred due to bad hardware.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_ETHER_PORT_OUTSIZED.Oversized_Bad_CRC_Packets_Delta *GT 0
*AND *VALUE KV6 SERVER ETHER PORT OUTSIZED.Undersized Bad CRC Packets Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_NIC_Outsized_Dup situation

Description

The received undersized packets did not pass the CRC.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6 SERVER ETHER PORT OUTSIZED.Undersized Bad CRC Packets Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_NIC_Outsized_Jumbo situation

Description

Port received good CRC packets but the frame size is jumbo.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6 SERVER ETHER PORT OUTSIZED.Oversized Good CRC Packets Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_NIC_Outsized_Malf situation

Description

Port received good CRC packets but the size is under 64 bytes.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_ETHER_PORT_OUTSIZED.Undersized_Good_CRC_Packets_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_NIC_Pause_Packets situation

Description

Error occurred due to buffer full condition.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_ETHER_PORT_PACKETS.Pause_Packets_Delta *GT 0 *OR *VALUE KV6_SERVER_ETHER_PORT_PACKETS.Per_Priority_Pause_Packets_Delta *GT 0 *OR *VALUE KV6_SERVER_ETHER_PORT_PACKETS.PPP_Packets_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_HBA_Bad_Frames situation

Description

Bad frames are transmitted due to vNIC or I/O module.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_FC_PORT_STATISTICS.Bad_Frames_Delta_Rx *GT 0 *OR *VALUE
KV6_SERVER_FC_PORT_STATISTICS.Bad_Frames_Delta_Tx *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Card_Errors_Buffer situation

Description

Error occurred due to buffer overflow.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_VNIC_STATISTICS.Dropped_Rx_Delta *GT 0 *OR *VALUE KV6 SERVER VNIC STATISTICS.Dropped Tx Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Card_Errors_Hrdw situation

Description

Error occurred due to bad hardware.

The situation is evaluated for each distinct value of the BLADESR_ID attribute.

Formula

*IF *VALUE KV6_SERVER_VNIC_STATISTICS.Errors_Rx_Delta *GT 0 *OR *VALUE KV6_SERVER_VNIC_STATISTICS.Errors_Tx_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Chassis Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant. **KV6_Chassis_Health_R situation**

Description

Critical or major faults occurred in the chassis.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_HEALTH SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Health_Y situation

Description

Information, warning, or minor faults occurred in the chassis.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_IO_Module_Health_R situation

Description

Critical or major faults occurred in the chassis I/O module.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_IO_MODULE_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_IO_Module_Health_Y situation

Description

Warning or minor faults occurred in the chassis I/O module.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_IO_MODULE_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_PSU_Health_R situation

Description

Critical or major fault occurred in the chassis PSU.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_PSU_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_PSU_Health_Y situation

Description

Information, warning, or minor fault occurred in the PSU.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6 CHASSIS PSU HEALTH SUMMARY.Health *EQ 'YELLOW'
See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

$KV6_Chassis_FanModule_Health_R\ situation$

Description

Critical or major fault occurred in the chassis fan module.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_FAN_MODULE_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_FanModule_Health_Y situation

Description

Information, warning, or minor fault occurred in the fan module.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_FAN_MODULE_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Fan_Health_R situation

Description

Critical or major faults occurred in the chassis fan.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_FAN_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Fan_Health_Y situation

Description

Warning or minor faults occurred in the chassis fan.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_FAN_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_IOBkplane_Health_R situation

Description

Critical or major faults occurred in the I/O backplane ports.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6 CHASSIS IO BACKPLANE PORT HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_IOBkplane_Health_Y situation

Description

Warning or minor faults occurred in the I/O backplane ports.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_IO_BACKPLANE_PORT_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Backplane_Erors_Hw situation

Description

Error occurred due to bad hardware.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_BACKPLANE_LAN_ERROR.Align_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_ERROR.Fcs_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_ERROR.MAC_Received_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_ERROR.MAC_Transmitted_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_ERROR.Under_Size_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Backplane_Erors_Br situation

Description

Error occurred due to buffer overrun.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_BACKPLANE_LAN_ERROR.Out_Discard_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_ERROR.Receive_Delta *GT 0 *OR *VALUE KV6 CHASSIS_BACKPLANE_LAN_ERROR.Transmit_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Bckplane_Erors_Dup situation

Description

Error occurred because the duplex settings does not match.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_BACKPLANE_LAN_ERROR.Deffered_Transmitted_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Backplane_Loses_Dp situation

Description

Packets are lost because the duplex settings do not match.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_BACKPLANE_LAN_LOSS.Carrier_Sense_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_LOSS.Excess_Collision_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_LOSS.Late_Collision_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_LOSS.Multi_Collision_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_LOSS.Single_Collision_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Backplane_Loses_Hw situation

Description

Packets are lost due to bad hardware.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_BACKPLANE_LAN_LOSS.Giants_Delta *GT 0 *OR *VALUE KV6_CHASSIS_BACKPLANE_LAN_LOSS.Symbol_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Bkplane_Pauses_Rcv situation

Description

Error occurred because pause frames were received by the host.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_BACKPLANE_LAN_PAUSE.Recieve_Pause_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_Chassis_Bkplane_Pauses_Trm situation

Description

Error occurred due to pause frames transmitted through the port.

The situation is evaluated for each distinct value of the CHASSIS_ID attribute.

Formula

*IF *VALUE KV6_CHASSIS_BACKPLANE_LAN_PAUSE.Transmitted_Pause_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Fabric Extender Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant. **KV6_FEX_Health_Summary_R situation**

Description

Critical or major faults occurred in the fabric extender.

The situation is evaluated for each distinct value of the FBREXTR_ID attribute.

Formula

*IF *VALUE KV6_FEX_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Health_Summary_Y situation

Description

Warning or minor faults occurred in the fabric extender.

The situation is evaluated for each distinct value of the FBREXTR_ID attribute.

Formula

*IF *VALUE KV6_FEX_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Fan_Health_Summary_R situation

Description

Critical or major faults occurred in the fabric extender fan.

The situation is evaluated for each distinct value of the FEXDFAN_ID attribute.

Formula

*IF *VALUE KV6 FEX FAN HEALTH SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Fan_Health_Summary_Y situation

Description

Warning or minor faults occurred in the fabric extender fan.

The situation is evaluated for each distinct value of the FEXDFAN_ID attribute.

*IF *VALUE KV6_FEX_FAN_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_IO_Module_Health_R situation

Description

Critical or major faults occurred in the FEX I/O module.

The situation is evaluated for each distinct value of the IOMODUL_ID attribute.

Formula

*IF *VALUE KV6_FEX_I0_MODULE_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_IO_Module_Health_Y situation

Description

Warning or minor faults occurred in the FEX I/O module.

The situation is evaluated for each distinct value of the IOMODUL_ID attribute.

Formula

*IF *VALUE KV6_FEX_I0_MODULE_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_PSU_Health_Summary_R situation

Description

Critical or major faults occurred in the fabric extender PSU.

The situation is evaluated for each distinct value of the FEX_PSU_ID attribute.

Formula

*IF *VALUE KV6_FEX_PSU_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_PSU_Health_Summary_Y situation

Description

Warning or minor faults occurred in the fabric extender PSU.

The situation is evaluated for each distinct value of the FEX_PSU_ID attribute.

Formula

*IF *VALUE KV6 FEX PSU HEALTH SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Port_Health_R situation

Description

Critical or major faults occurred in the FEX backplane port.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

*IF *VALUE KV6_FEX_IO_BACKPLANE_PORT_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Port_Health_Y situation

Description

Warning or minor faults occurred in the FEX backplane port.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

Formula

*IF *VALUE KV6_FEX_I0_BACKPLANE_PORT_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Fabric_Port_Health_R situation

Description

Critical or major faults occurred in the FEX fabric port.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

Formula

*IF *VALUE KV6_FEX_I0_FABRIC_PORT_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Fabric_Port_Health_Y situation

Description

Warning or minor faults occurred in the FEX fabric port.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

Formula

*IF *VALUE KV6_FEX_IO_FABRIC_PORT_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Backplane_Erors_Hw situation

Description

Error occurred due to bad hardware.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

Formula

*IF *VALUE KV6_FEX_BACKPLANE_PORT_ERROR.Align_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_ERROR.Fcs_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_ERROR.MAC_Received_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_ERROR.MAC_Transmitted_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_ERROR.Under_Size_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Backplane_Erors_Br situation

Description

Error occurred due to buffer overrun.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

Formula

*IF *VALUE KV6_FEX_BACKPLANE_PORT_ERROR.Out_Discard_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_ERROR.Receive_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_ERROR.Transmit_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Bckplane_Erors_Dup situation

Description

Error occurred because the duplex settings do not match.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

Formula

*IF *VALUE KV6_FEX_BACKPLANE_PORT_ERROR.Deffered_Transmitted_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Backplane_Loses_Dp situation

Description

Error occurred due to duplex mismatch.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

Formula

*IF *VALUE KV6_FEX_BACKPLANE_PORT_LOSS.Carrier_Sense_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_LOSS.Excess_Collision_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_LOSS.Late_Collision_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_LOSS.Multi_Collision_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_LOSS.Single_Collision_Delta *GT 0 See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Backplane_Loses_Hw situation

Description

Error occurred due to bad hardware.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

Formula

*IF *VALUE KV6_FEX_BACKPLANE_PORT_LOSS.Giants_Delta *GT 0 *OR *VALUE KV6_FEX_BACKPLANE_PORT_LOSS.Symbol_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FEX_Bkplane_Pauses_Rcv situation

Description

Error occurred because pause frames were received by the host.

The situation is evaluated for each distinct value of the BCKPORT_ID attribute.

Formula

*IF *VALUE KV6_FEX_BACKPLANE_PORT_PAUSE.Recieve_Pause_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions Warning **Clearing conditions** The situation clears when the condition becomes false. KV6_FEX_Bkplane_Pauses_Trm situation Description Error occurred due to pause frames transmitted through the port. The situation is evaluated for each distinct value of the BCKPORT_ID attribute. Formula *IF *VALUE KV6 FEX BACKPLANE PORT PAUSE.Transmitted Pause Delta *GT 0 See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula. Distribution This situation is automatically distributed to instances of this agent. Run at startup Yes Sampling interval 1 minute Situation persistence The number of times the conditions of the situation must occur for the situation to be true is 1. **Error conditions** Warning

Clearing conditions

The situation clears when the condition becomes false.

Fabric Interconnects Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant. **KV6_FI_Health_R situation**

Description

Critical or major faults occurred in fabric interconnect.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6 FI HEALTH SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_Health_Y situation

Description

Warning or minor faults occurred in the fabric interconnect.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

*IF *VALUE KV6_FI_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_Fan_Health_R situation

Description

Critical or major faults occurred in fabric interconnect fans.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_FAN_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_Fan_Health_Y situation

Description

Information, warning, or minor faults occurred in the FI fans.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_FAN_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_PSU_Health_R situation

Description

Critical or major faults occurred in the FI PSU.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_PSU_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_PSU_Health_Y situation

Description

Information, warning, or minor faults occurred in the FI PSU.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6 FI PSU HEALTH SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_Module_Health_R situation

Description

Critical or major faults occurred in the FI module ports.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

*IF *VALUE KV6_FI_FIXED_EXPANSION_PORT_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_Module_Health_Y situation

Description

Warning or minor faults occurred in the FI module ports.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_FIXED_EXPANSION_PORT_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_LAN_Port_Errors_Hw situation

Description

Error occurred due to bad hardware.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_LAN_ERROR_STATISTICS.Align_Delta *GT 0 *OR *VALUE KV6_FI_LAN_ERROR_STATISTICS.Fcs_Delta *GT 0 *OR *VALUE KV6_FI_LAN_ERROR_STATISTICS.MAC_Received_Delta *GT 0 *OR *VALUE KV6_FI_LAN_ERROR_STATISTICS.MAC_Transmitted_Delta *GT 0 *OR *VALUE KV6_FI_LAN_ERROR_STATISTICS.Under_Size_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_LAN_Port_Errors_Bff situation

Description

Error occurred due to buffer overrun.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_LAN_ERROR_STATISTICS.Out_Discard_Delta *GT 0 *OR *VALUE KV6_FI_LAN_ERROR_STATISTICS.Receive_Delta *GT 0 *OR *VALUE KV6 FI LAN ERROR STATISTICS.Transmit Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_LAN_Port_Errors_Dup situation

Description

Error occurred because the duplex settings does not match.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_LAN_ERROR_STATISTICS.Align_Delta *GT 0 *AND *VALUE KV6_FI_LAN_ERROR_STATISTICS.Deffered_Transmitted_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_LAN_Port_Losses_Dup situation

Description

Packets are lost because the duplex settings do not match.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_LAN_LOSS_STATISTICS.Carrier_Sense_Delta *GT 0 *OR *VALUE KV6_FI_LAN_LOSS_STATISTICS.Excess_Collision_Delta *GT 0 *OR *VALUE KV6_FI_LAN_LOSS_STATISTICS.Late_Collision_Delta *GT 0 *OR *VALUE KV6_FI_LAN_LOSS_STATISTICS.Multi_Collision_Delta *GT 0 *OR *VALUE KV6_FI_LAN_LOSS_STATISTICS.Single_Collision_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

$KV6_FI_LAN_Port_Losses_Hw\ situation$

Description

Packets are lost due to bad hardware.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_LAN_LOSS_STATISTICS.Giants_Delta *GT 0 *OR *VALUE KV6_FI_LAN_LOSS_STATISTICS.Symbol_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_LAN_Port_Pauses_Rcv situation

Description

Error occurred because pause frames were received by the host.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

```
*IF *VALUE KV6_FI_LAN_PAUSE_STATISTICS.Recieve_Pause_Delta *GT 0
```

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_FI_LAN_Port_Pauses_Trm situation

Description

Error occurred due to pause frames transmitted through the port.

The situation is evaluated for each distinct value of the FABRICI_ID attribute.

Formula

*IF *VALUE KV6_FI_LAN_PAUSE_STATISTICS.Transmitted_Pause_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_TraficMonSesn_Health_LAN_R situation

Description

Critical or major faults occurred in traffic monitoring session.

The situation is evaluated for each distinct value of the TRFMNSSNDN attribute.

Formula

*IF *VALUE KV6_SYS_MON_TRAFFIC_MONITORING_SESSION_HEALTH_SUMMARY_LAN.Health *EQ
'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_TraficMonSesn_Health_LAN_Y situation

Description

Warning or minor faults occurred in traffic monitoring session.

The situation is evaluated for each distinct value of the TRFMNSSNDN attribute.

Formula

*IF *VALUE KV6_SYS_MON_TRAFFIC_MONITORING_SESSION_HEALTH_SUMMARY_LAN.Health *EQ
'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_TraficMonSesn_Health_SAN_R situation

Description

Critical or major faults occurred in traffic monitoring session.

The situation is evaluated for each distinct value of the TRFMNSSNDN attribute.

Formula

*IF *VALUE KV6_SYS_MON_TRAFFIC_MONITORING_SESSION_HEALTH_SUMMARY_SAN.Health *EQ
'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_TraficMonSesn_Health_SAN_Y situation

Description

Warning or minor faults occurred in traffic monitoring session.

The situation is evaluated for each distinct value of the TRFMNSSNDN attribute.

```
Formula
```

*IF *VALUE KV6_SYS_MON_TRAFFIC_MONITORING_SESSION_HEALTH_SUMMARY_SAN.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval 1 minute Situation persistence The number of times the conditions of the situation must occur for the situation to be true is 1. Error conditions Warning Clearing conditions The situation clears when the condition becomes false.

Faults Navigator item

No predefined situations are included for this Navigator item.

Performance Object Status Navigator item

No predefined situations are included for this Navigator item.

Rack Mount Servers Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant.

KV6_RM_Health_R situation

Description

Critical or major faults occurred in the rack-mount server.

The situation is evaluated for each distinct value of the RCKMONT_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Health_Y situation

Description

Warning or minor faults occurred in the rack-mount server.

The situation is evaluated for each distinct value of the RCKMONT_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Motherboard_Health_R situation

Description

Critical or major faults occurred in the server motherboard.

The situation is evaluated for each distinct value of the MRBOARD_ID attribute.

Formula

*IF *VALUE KV6 RM SERVER MOTHERBOARD HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Motherboard_Health_Y situation

Description

Warning or minor faults occurred in the server motherboard.

The situation is evaluated for each distinct value of the MRBOARD_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_MOTHERBOARD_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_CPU_Health_R situation

Description

Critical or major faults occurred in the rack-mount server CPU.

The situation is evaluated for each distinct value of the RKMTCPU_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_CPU_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_CPU_Health_Y situation

Description

Warning or minor faults occurred in the rack-mount server CPU.

The situation is evaluated for each distinct value of the RKMTCPU_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_CPU_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Memory_AU_Health_R situation

Description

Critical or major faults occurred in the memory array unit.

The situation is evaluated for each distinct value of the MEMARRY_ID attribute.

*IF *VALUE KV6_RM_SERVER_MEMORY_ARRAY_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Memory_AU_Health_Y situation

Description

Warning or minor faults occurred in the memory array unit.

The situation is evaluated for each distinct value of the MEMARRY_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_MEMORY_ARRAY_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Storage_Cntrlr_Health_R situation

Description

Critical or major faults occurred in server storage controller.

The situation is evaluated for each distinct value of the STOCONT_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_STORAGE_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Storage_Cntrlr_Health_Y situation

Description

Warning or minor faults occurred in server storage controller.

The situation is evaluated for each distinct value of the STOCONT_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_STORAGE_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_SC_Disk_Health_R situation

Description

Critical or major faults occurred in the server storage disks.

The situation is evaluated for each distinct value of the RKMDISK_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_STORAGE_DISK_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_SC_Disk_Health_Y situation

Description

Warning or minor faults occurred in the server storage disks.

The situation is evaluated for each distinct value of the RKMDISK_ID attribute.

*IF *VALUE KV6_RM_SERVER_STORAGE_DISK_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Fan_Module_Health_R situation

Description

Critical or major faults occurred in the server fan module.

The situation is evaluated for each distinct value of the FANMODL_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_FAN_MODULE_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Fan_Module_Health_Y situation

Description

Warning or minor faults occurred in the server fan module.

The situation is evaluated for each distinct value of the FANMODL_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_FAN_MODULE_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Fan_Health_R situation

Description

Critical or major faults occurred in the rack-mount server fans.

The situation is evaluated for each distinct value of the RKMTFAN_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_FAN_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Fan_Health_Y situation

Description

Warning or minor faults occurred in the rack-mount server fans.

The situation is evaluated for each distinct value of the RKMTFAN_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_FAN_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Adapter_Health_R situation

Description

Critical or major faults occurred in rack-mount server adapters.

The situation is evaluated for each distinct value of the ADAPTOR_ID attribute.

*IF *VALUE KV6_RM_SERVER_ADAPTER_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Adapter_Health_Y situation

Description

Warning or minor faults occurred in rack-mount server adapters.

The situation is evaluated for each distinct value of the ADAPTOR_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_ADAPTER_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_PSU_Health_R situation

Description

Critical or major faults occurred in the rack-mount server PSU.

The situation is evaluated for each distinct value of the RKMTPSU_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_PSU_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_PSU_Health_Y situation

Description

Warning or minor faults occurred in the rack-mount server PSU.

The situation is evaluated for each distinct value of the RKMTPSU_ID attribute.

Formula

*IF *VALUE KV6 RM SERVER PSU HEALTH SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_DCE_Interface_Health_R situation

Description

Critical or major faults occurred in the server DCE interface.

The situation is evaluated for each distinct value of the DCE_INT_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_DCE_INTERFACE_HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_DCE_Interface_Health_Y situation

Description

Warning or minor faults occurred in the server DCE Interface.

The situation is evaluated for each distinct value of the DCE_INT_ID attribute.

*IF *VALUE KV6_RM_SERVER_DCE_INTERFACE_HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_NIC_Health_R situation

Description

Critical or major faults occurred in the rack-mount server NIC.

The situation is evaluated for each distinct value of the NIC_INT_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_NIC_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_NIC_Health_Y situation

Description

Warning or minor faults occurred in the rack-mount server NIC.

The situation is evaluated for each distinct value of the NIC_INT_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_NIC_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Ether_Port_Errors situation

Description

Error occurred due to bad hardware.

The situation is evaluated for each distinct value of the RMSCARD_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_ETHER_PORT_ERROR.Bad_CRC_Packets_Delta *GT 0 *OR *VALUE KV6_RM_SERVER_ETHER_PORT_ERROR.Bad_Length_Packets_Delta *GT 0 *OR *VALUE KV6_RM_SERVER_ETHER_PORT_ERROR.MAC_Discard_Packets_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_NIC_Outsized_Hw situation

Description

Error occurred due to bad hardware

The situation is evaluated for each distinct value of the RMSCARD_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_ETHER_PORT_OUTSIZED.Oversized_Bad_CRC_Packets_Delta *GT 0 *AND *VALUE KV6_RM_SERVER_ETHER_PORT_OUTSIZED.Undersized_Bad_CRC_Packets_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_NIC_Outsized_Dup situation

Description

The received undersized packets did not pass the CRC.

The situation is evaluated for each distinct value of the RMSCARD_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_ETHER_PORT_OUTSIZED.Undersized_Bad_CRC_Packets_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_NIC_Outsized_Jumbo situation

Description

Port received good CRC packets but the frame size is jumbo.

The situation is evaluated for each distinct value of the RMSCARD_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_ETHER_PORT_OUTSIZED.Oversized_Good_CRC_Packets_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_NIC_Outsized_Malf situation

Description

Port received good CRC packets but the size is under 64 bytes.

The situation is evaluated for each distinct value of the RMSCARD_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_ETHER_PORT_OUTSIZED.Undersized_Good_CRC_Packets_Delta
*GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_NIC_Pause_Packets situation

Description

Error occurred due to buffer overflow.

The situation is evaluated for each distinct value of the RMSCARD_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_ETHER_PORT_PACKETS.Pause_Packets_Delta *GT 0 *OR *VALUE KV6_RM_SERVER_ETHER_PORT_PACKETS.Per_Priority_Pause_Packets_Delta *GT 0 *OR *VALUE KV6_RM_SERVER_ETHER_PORT_PACKETS.PPP_Packets_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_HBA_Bad_Frames situation

Description

Error occurred due to vNIC or I/O module.

The situation is evaluated for each distinct value of the RKM_HBA_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_FC_PORT_STATISTICS.Bad_Frames_Delta_Rx *GT 0 *OR *VALUE KV6_RM_SERVER_FC_PORT_STATISTICS.Bad_Frames_Delta_Tx *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Card_Errors_Buffer situation

Description

Error occurred due to buffer overflow.

The situation is evaluated for each distinct value of the RMSCARD_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_VNIC_STATISTICS.Dropped_Rx_Delta *GT 0 *OR *VALUE KV6_RM_SERVER_VNIC_STATISTICS.Dropped_Tx_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Card_Errors_Hrdw situation

Description

Error occurred due to NIC or I/O module.

The situation is evaluated for each distinct value of the RMSCARD_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_VNIC_STATISTICS.Errors_Rx_Delta *GT 0 *OR *VALUE KV6_RM_SERVER_VNIC_STATISTICS.Errors_Tx_Delta *GT 0

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Disk_Health_R situation

Description

Critical or major faults occurred in the rack-mount server disk.

The situation is evaluated for each distinct value of the RKMTDSK_ID attribute.

*IF *VALUE KV6_RM_SERVER_DISK_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_RM_Disk_Health_Y situation

Description

Warning or minor faults occurred in the rack-mount server disk.

The situation is evaluated for each distinct value of the RKMTDSK_ID attribute.

Formula

*IF *VALUE KV6_RM_SERVER_DISK_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Server and Identifier Pools Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant. **KV6_Server_Pool_Health_R situation**

Description

Critical or major faults occurred in the server pools.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6_SERVER_POOL_DETAILS.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes
Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Server_Pool_Health_Y situation

Description

Warning or minor faults occurred in the server pools.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6_SERVER_POOL_DETAILS.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_UUID_Suffix_Pool_Health_R situation

Description

Critical or major faults occurred in the UUID suffix pools.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6_UUID_SUFFIX_POOL_DETAILS.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_UUID_Suffix_Pool_Health_Y situation

Description

Warning or minor faults occurred in the UUID suffix pools.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6_UUID_SUFFIX_POOL_DETAILS.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_MAC_Pool_Health_R situation

Description

Critical or major faults occurred in the MAC pools.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6_MAC_POOL_DETAILS.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_MAC_Pool_Health_Y situation

Description

Warning or minor faults occurred in the MAC pools.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6_MAC_POOL_DETAILS.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_SAN_Pool_Health_R situation

Description

Critical or major faults occurred in the SAN pools.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6_SAN_POOL_DETAILS.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_SAN_Pool_Health_Y situation

Description

Warning or minor faults occurred in the SAN pools.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6_SAN_POOL_DETAILS.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Service Profiles Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant. **KV6_Service_Profile_Health_R situation**

Description

Critical or major faults occurred in the service profile.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6 SERVICE PROFILE HEALTH.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_Service_Profile_Health_Y situation

Description

Warning or minor faults occurred in the service profile.

The situation is evaluated for each distinct value of the ORGROOT_DN attribute.

Formula

*IF *VALUE KV6 SERVICE PROFILE HEALTH.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

VMware Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant. KV6_VMware_vCenter_Health_R situation

Description

Critical or major faults occurred in the VMware vCenter server.

The situation is evaluated for each distinct value of the VCENTER_DN attribute.

Formula

*IF *VALUE KV6_VMWARE_VCENTER_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_VMware_vCenter_Health_Y situation

Description

Warning or minor faults occurred in the VMware vCenter server.

The situation is evaluated for each distinct value of the VCENTER_DN attribute.

Formula

*IF *VALUE KV6_VMWARE_VCENTER_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_VMware_ESX_Host_Health_R situation

Description

Critical or major faults occurred in the ESX host server.

The situation is evaluated for each distinct value of the ESXHOSTDNA attribute.

Formula

*IF *VALUE KV6_VMWARE_ESX_HOST_SERVER_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_VMware_ESX_Host_Health_Y situation

Description

Warning or minor faults occurred in the ESX host server.

The situation is evaluated for each distinct value of the ESXHOSTDNA attribute.

Formula

*IF *VALUE KV6_VMWARE_ESX_HOST_SERVER_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_VMware_VM_Health_R situation

Description

Critical or major faults occurred in the virtual machine.

The situation is evaluated for each distinct value of the VMDNATTRBB attribute.

Formula

*IF *VALUE KV6_VMWARE_VIRTUAL_MACHINE_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_VMware_VM_Health_Y situation

Description

Warning or minor faults occurred in the virtual machine.

The situation is evaluated for each distinct value of the VMDNATTRBB attribute.

Formula

*IF *VALUE KV6_VMWARE_VIRTUAL_MACHINE_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KV6_VMware_vNIC_Health_R situation

Description

Critical or major faults occurred in the vNIC.

The situation is evaluated for each distinct value of the VNICDNATTR attribute.

Formula

*IF *VALUE KV6_VMWARE_VNIC_HEALTH_SUMMARY.Health *EQ 'RED'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KV6_VMware_vNIC_Health_Y situation

Description

Warning or minor faults occurred in the vNIC.

The situation is evaluated for each distinct value of the VNICDNATTR attribute.

Formula

*IF *VALUE KV6_VMWARE_VNIC_HEALTH_SUMMARY.Health *EQ 'YELLOW'

See "Attributes in each attribute group" on page 55 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Chapter 6. Take Action commands reference

Take Action commands can be run from the portal client or included in a situation or a policy.

About Take Action commands

When included in a situation, the command runs when the situation becomes true. A Take Action command in a situation is also referred to as *reflex automation*. When you enable a Take Action command in a situation, you automate a response to system conditions. For example, you can use a Take Action command to send a command to restart a process on the managed system or to send a text message to a cell phone.

In advanced automation, policies are used to take actions, schedule work, and automate manual tasks. A policy comprises a series of automated steps called activities that are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities that are prescribed by the feedback.

A basic Take Action command shows the return code of the operation in a message box that is displayed after the action is completed or in a log file. After you close this window, no further information is available for this action.

Additional information about Take Action commands

For more information about working with Take Action commands, see "Take Action commands" in the *Tivoli Enterprise Portal User's Guide*.

For a list of the Take Action commands for this monitoring agent and a description of each command, see "Predefined Take Action commands" and the information for each individual command.

Predefined Take Action commands

Not all agents have predefined Take Action commands. But you can create Take Action commands for any agent.

This monitoring agent contains the following Take Action commands:

- Change Boot Policy of Service Profile
- Modify Boot Policy

Take Action command descriptions

Each Take Action command description provides information you can use to decide whether to run the Take Action command or whether to include the Take Action command in a situation or a policy.

The descriptions of the Take Action commands provide the following information:

Description

Actions the command performs on the system to which it is sent, and the permissions required for the Take Action command to function.

Return codes

Information that the Take Action command returns.

Change Boot Policy of Service Profile action

Changes the boot policy that is associated with a service profile. **System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

CHANGE_BOOT_POLICY_OF_SERVICE_PROFILE \

[KV6_Service_Profile_Health.Service_Profile_DN]

[KV6_Policy_Boot_Configuration_Summary.Boot_Policy_DN]

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

CHANGE_BOOT_POLICY_OF_SERVICE_PROFILE \

[&{KV6_Service_Profile_Health.Service_Profile_DN}] \

[&{KV6_Policy_Boot_Configuration_Summary.Boot_Policy_DN}]

You can also use attribute substitution in a workflow policy though the format is slightly different:

CHANGE_BOOT_POLICY_OF_SERVICE_PROFILE \

[&WaitOnSituation:KV6_Service_Profile_Health.Service_Profile_DN] \

[&WaitOnSituation:KV6_Policy_Boot_Configuration_Summary.Boot_Policy_DN]

Command arguments

- Name: KV6_Service_Profile_Health.Service_Profile_DN
 - **Description:** Enter the distinguished name of the service profile.
 - **Default:** null
- Name: KV6_Policy_Boot_Configuration_Summary.Boot_Policy_DN
 - **Description:** Enter the distinguished name of the boot policy that you want to associate with the service profile.
 - Default: null

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 0
 - Return Code Type: OK
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV6001I
 - Message: Boot policy changed successfully.
- Return Code: 1
 - Return Code Type: GENERAL_ERROR
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV6004E
 - Message: Cannot perform the requested task.
- Return Code: 2
 - Return Code Type: UNKNOWN
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV6005E
 - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 3
 - Return Code Type: OK
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV6006E
 - Message: Boot policy is already associated with the service profile.

- Return Code: 8
 - Return Code Type: TIMED_OUT
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV61003
 - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
 - Return Code Type: INSUFFICIENT_USER_AUTHORITY
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV61004
 - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

Modify Boot Policy action

Modifies the existing boot policy. You can modify the existing boot order. You must reboot the server after changing the boot order by entering the required value in the Reboot_on_Boot_order_ change field. **System command**

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

MODIFY_BOOT_POLICY \

[KV6_Policy_Boot_Configuration_Summary.Boot_Policy_DN]

[Reboot_on_Boot_order_change]

[Storage]

[LAN]

[iSCSI]

[CD_ROM_read_only_vm]

[Floppy_read_write_vm]

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

MODIFY_BOOT_POLICY \

[&{KV6_Policy_Boot_Configuration_Summary.Boot_Policy_DN}] \

```
[&{Reboot_on_Boot_order_change}] \
```

[&{Storage}] \

[&{LAN}] \

[&{iSCSI}] \

[&{CD ROM read only vm}] \

```
[&{Floppy_read_write_vm}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

MODIFY_BOOT_POLICY \

[&WaitOnSituation:KV6_Policy_Boot_Configuration_Summary.Boot_Policy_DN] \

[&WaitOnSituation:Reboot_on_Boot_order_change] \

[&WaitOnSituation:Storage] \

[&WaitOnSituation:LAN] \

[&WaitOnSituation:iSCSI] \

[&WaitOnSituation:CD_ROM_read_only_vm] \

[&WaitOnSituation:Floppy_read_write_vm]

Command arguments

- Name: KV6_Policy_Boot_Configuration_Summary.Boot_Policy_DN
 - Description: Enter the distinguished name of the boot policy that you want to modify.
 - Default: BLANK
- Name: Reboot_on_Boot_order_change
 - **Description:** Enter Yes if you want to reboot the server after changing the boot order; otherwise, enter No.
 - **Default:** BLANK
- Name: Storage
 - Description: Enter the required boot order for this parameter.
 - Default: -1
- Name: LAN
 - **Description:** Enter the required boot order for this parameter.
- Default: -1
- Name: iSCSI
 - **Description:** Enter the required boot order for this parameter.
 - Default: -1
- Name: CD_ROM_read_only_vm
 - Description: Enter the required boot order for this parameter.
 - Default: -1
- **Name:** Floppy_read_write_vm
 - **Description:** Enter the required boot order for this parameter.
 - Default: -1

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 0
 - Return Code Type: OK
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV6002I
 - Message: Boot policy modified successfully.
- Return Code: 1
 - Return Code Type: GENERAL_ERROR
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV6004E
 - Message: Cannot perform the requested task.
- Return Code: 2
 - Return Code Type: UNKNOWN
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV6005E
 - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 3
 - Return Code Type: GENERAL_ERROR
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV6007E
 - Message: The entered parameters are same as the existing parameters.
- Return Code: 8
 - Return Code Type: TIMED_OUT
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV61003

- Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
 - Return Code Type: INSUFFICIENT_USER_AUTHORITY
 - Operating systems: [linux26,linux_x86_64,windows,wix64]
 - Message ID: KV61004
 - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

Chapter 7. Policies reference

Policies are used as an advanced automation technique for implementing more complex workflow strategies than you can create through simple automation. All agents do not provide predefined policies, but you can create policies for any agent.

A *policy* is a set of automated system processes that can take actions, schedule work for users, or automate manual tasks. You use the Workflow Editor to design policies. You control the order in which the policy executes a series of automated steps, which are also called *activities*. Policies are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities prescribed by the feedback.

For more information about working with policies, see "Automation with policies" in the *Tivoli Enterprise Portal User's Guide*.

For information about using the Workflow Editor, see the *IBM Tivoli Monitoring Administrator's Guide* or the Tivoli Enterprise Portal online help.

Predefined policies

Not all agents have predefined policies. But you can create policies for any agent.

The IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS does not provide predefined policies.

Chapter 8. Tivoli Common Reporting for the monitoring agent

This chapter contains agent-specific information about Tivoli Common Reporting for the monitoring agent for Cisco UCS. Use this chapter in conjunction with the Tivoli Common Reporting chapter in the *IBM Tivoli Monitoring Administrator's Guide V6.3 Fix Pack 2* for complete information about prerequisites, importing reports, and running reports.

The IBM Tivoli Monitoring for Virtual Environments V7.2 reports are historical reports that include summarized data that is collected in the Tivoli Data Warehouse. These reports are built to run only against the IBM Tivoli Monitoring for monitoring agent for Cisco UCS V7.2.

The reports can be administered, run, and edited by using Tivoli Common Reporting V2.1(included with IBM Tivoli Monitoring V6.2.2 Fix Pack 2 or later) or Tivoli Common Reporting V3.1 (included with Jazz for Service Management V1.1 or later) software.

For more information about Tivoli Common Reporting, see the Tivoli Common Reporting Community https://www.ibm.com/developerworks/mydeveloperworks/groups/service/html/communityView?communityUuid=9caf63c9-15a1-4a03-96b3-8fc700f3a364.

This version of Tivoli Common Reporting includes Cognos Business Intelligence and Reporting V8.4 (for Tivoli Common Reporting V2.1) or V10.2 (for Tivoli Common Reporting V3.1).

Cognos-based report packages

The Cognos-based Tivoli Common Reporting tool is used to create, view, and manage reports for the Tivoli group of products.

You can use the Cognos reports to analyze resource information such as availability, utilization, performance, and so on. With Cognos reports, you can evaluate the key metrics of the computers that are on the managed environment of your organization.

By using the Tivoli Common Reporting tool, you can:

- Create custom reports by using the drag-and-drop feature integrated with the web-based editor.
- Schedule, share, secure, and administer reports in a single interface.
- Save the report in HTML, PDF, Excel, XML, or CSV file formats.
- Share reports by email or save the reports in a file system for later use.

The following databases are supported for all reports:

- DB2
- Oracle
- SQL Server

You can use Tivoli Common Reporting V2.1.1 software that is shipped with *IBM Tivoli Monitoring V6.3 Fix Pack 2* to administer, run, and edit Cognos reports. For more information about Tivoli Common Reporting, see the Tivoli Common Reporting Information Center (http://www-01.ibm.com/support/knowledgecenter/SSH2DF_2.1.1/ctcr_prodoverview.html).

Prerequisites

This topic describes the prerequisite components for installing and running Tivoli Common Reporting packages in Tivoli Monitoring products. You must ensure that all prerequisites are met before running the Cognos reports.

Before you begin

- You must point to Java 1.5 or later through your system PATH on the Windows and non-Windows systems.
- Ensure that your system PATH contains a valid path to a Java Virtual Machine. For example, # PATH=\$PATH:/ibmjre60/ibm-javai386- 60/jre/bin.

Procedure

1. Install Tivoli Common Reporting.

To install and configure Tivoli Common Reporting , see the documentation in the IBM Tivoli Common Reporting information center (http://www-01.ibm.com/support/knowledgecenter/SSH2DF_2.1.1/ctcr_prodoverview.html).

To ensure that Tivoli Common Reporting is running, go to: https://machine_name:16311/ibm/console/.

2. Obtain the reports package from the product media and extract the package.

The Cognos reports are available in the following package: Product Media root/ITMfVE_UCS_Reports. Copy this package under C:\CiscoUCS_tcr_reports directory on the same computer where the Tivoli Common Reporting Server is installed.

Known issue: The package can be saved to any directory when the specified path name does not contain a space.

Extract this package in the same directory.

The directory contents are as follows:

- Database scripts required to prepare the Tivoli Data Warehouse for Cognos reports.
- A report installer that imports the reports into Tivoli Common Reporting and sets up the database connection.
- **3.** Configure historical collection for monitoring agent for Cisco UCS V7.2 and the IBM Tivoli Warehouse Summarization and Pruning Agent. After IBM Tivoli Monitoring V6.3 Fix Pack 2 is installed and the monitoring agent for Cisco UCS V7.2 is installed and configured, configure historical collection. Also, configure the Warehouse Summarization and Pruning agent with or without shifts enabled. For more information about how to enable historical collection and configure the Warehouse Summarization and Pruning agent in IBM Tivoli Monitoring, see the following documentation:
 - http://www-01.ibm.com/support/knowledgecenter/SSTFXA_6.3.0.2/com.ibm.itm.doc_6.3fp2/ adminuse/history_manage_intro.htm?lang=en
 - http://www-01.ibm.com/support/knowledgecenter/SSTFXA_6.3.0.2/com.ibm.itm.doc_6.3fp2/ install/tdw_solutions.htm?lang=en
 - http://www-01.ibm.com/support/knowledgecenter/SSTFXA_6.3.0.2/com.ibm.itm.doc_6.3fp2/ic/ landing_tepuser.htm

Note: Historical collection and daily and hourly summarization must be enabled for all attribute groups of monitoring agent for Cisco UCS V7.2.

Historical collection and daily and hourly summarization must be enabled for the following attribute groups:

- KV6 CHASSIS BACKPLANE LAN ERROR
- KV6 CHASSIS BACKPLANE LAN LOSS
- KV6 CHASSIS BACKPLANE LAN PAUSE
- KV6 CHASSIS BACKPLANE LAN STATISTICS
- KV6 CHASSIS CONFIGURATION DETAILS
- KV6 CHASSIS FAN HEALTH SUMMARY
- KV6 CHASSIS FAN MODULE CONFIGURATION
- KV6 CHASSIS FAN MODULE HEALTH

- KV6 CHASSIS FAN MODULE TEMPERATURE
- KV6 CHASSIS FAN STATISTICS
- KV6 CHASSIS HARDWARE FIRMWARE
- KV6 CHASSIS HEALTH SUMMARY
- KV6 CHASSIS IO BACKPLANE PORT HEALTH
- KV6 CHASSIS IO MODULE CONFIGURATION
- KV6 CHASSIS IO MODULE HEALTH SUMMARY
- KV6 CHASSIS IO MODULE TEMPERATURE
- KV6 CHASSIS POWER STATISTICS
- KV6 CHASSIS PSU CONFIGURATION
- KV6 CHASSIS PSU HEALTH SUMMARY
- KV6 CHASSIS PSU STATISTICS
- KV6 CHASSIS SLOT DETAILS
- KV6 CHASSIS SLOT UTILIZATION SUMMARY
- KV6 CHASSISANDFABRICEXTENDER HEALTH SUMMARY
- KV6 CISCO UCS TOPOLOGY
- KV6 FAULTS
- KV6 FEX BACKPLANE PORT CONFIG
- KV6 FEX BACKPLANE PORT ERROR
- KV6 FEX BACKPLANE PORT LOSS
- KV6 FEX BACKPLANE PORT PAUSE
- KV6 FEX BACKPLANE STATISTICS
- KV6 FEX ENVIRONMENT STATISTICS
- KV6 FEX FABRIC PORT CONFIG
- KV6 FEX FAN CONFIGURATION DETAILS
- KV6 FEX FAN HEALTH SUMMARY
- KV6 FEX FAN SPEED STATISTICS
- KV6 FEX FIRMWARE
- KV6 FEX HEALTH SUMMARY
- KV6 FEX IO BACKPLANE PORT HEALTH
- KV6 FEX IO FABRIC PORT HEALTH
- KV6 FEX IO MODULE CONFIGURATION
- KV6 FEX IO MODULE HEALTH SUMMARY
- KV6 FEX IO MODULE TEMPERATURE
- KV6 FEX PSU CONFIGURATION DETAILS
- KV6 FEX PSU ENVIRONMENT STATISTICS
- KV6 FEX PSU HEALTH SUMMARY
- KV6 FI CONFIGURATION DETAILS
- KV6 FI FAN CONFIGURATION DETAILS
- KV6 FI FAN HEALTH SUMMARY
- KV6 FI FIXED EXPANSION CONFIGURATION
- KV6 FI FIXED EXPANSION PORT HEALTH
- KV6 FI HARDWARE FIRMWARE
- KV6 FI HEALTH SUMMARY
- KV6 FI LAN ERROR STATISTICS

- KV6 FI LAN LOSS STATISTICS
- KV6 FI LAN PAUSE STATISTICS
- KV6 FI LAN STATISTICS
- KV6 FI PORT SUMMARY
- KV6 FI PORT USAGE
- KV6 FI PSU CONFIGURATION DETAILS
- KV6 FI PSU HEALTH SUMMARY
- KV6 FI PSU STATISTICS
- KV6 FI SAN ERROR STATISTICS
- KV6 FI SAN STATISTICS
- KV6 FI SYSTEM STATISTICS
- KV6 FI TEMPERATURE STATISTICS
- KV6 MAC POOL DETAILS
- KV6 PERFORMANCE OBJECT STATUS
- KV6 POLICY BIOS ADVANCED CONFIGURATIONS
- KV6 POLICY BIOS CONFIGURATION SUMMARY
- KV6 POLICY BIOS CONFIGURATIONS
- KV6 POLICY BOOT CONFIGURATION SUMMARY
- KV6 POLICY BOOT ORDER CONFIGURATION DETAILS
- KV6 POLICY IPMI ACCESS PROFILE CONFIGURATION SUMMARY
- KV6 POLICY IPMI USER CONFIGURATION DETAILS
- KV6 POLICY ISCSI BOOT ORDER CONFIGURATION SUMMARY
- KV6 POLICY ISCSI STATIC TARGET INTERFACE CONFIGURATION DETAILS
- KV6 POLICY ISCSI VNIC CONFIGURATION SUMMARY
- KV6 POLICY LAN BOOT ORDER CONFIGURATION SUMMARY
- KV6 POLICY QOS CONFIGURATION DETAILS
- KV6 POLICY SCRUB CONFIGURATION DETAILS
- KV6 POLICY SERIAL OVER LAN CONFIGURATION DETAILS
- KV6 POLICY STORAGE BOOT ORDER CONFIGURATION SUMMARY
- KV6 POLICY VIRTUAL HOST INTERFACE CONFIGURATION DETAILS
- KV6 POLICY VIRTUAL MEDIA BOOT ORDER CONFIGURATION DETAILS
- KV6 POLICY VNICVHBA PLACEMENT CONFIGURATION SUMMARY
- KV6 POOL INITIATOR CONFIGURATION DETAILS
- KV6 POOL MAC ADDRESS CONFIGURATION DETAILS
- KV6 POOL MAC CONFIGURATION DETAILS
- KV6 POOL SERVER CONFIGURATION DETAILS
- KV6 POOL UUID BLOCK CONFIGURATION DETAILS
- KV6 POOL UUID SUFFIX CONFIGURATION DETAILS
- KV6 POOL WWN INITIATOR BLOCK CONFIGURATION DETAILS
- KV6 RM SERVER ADAPTER CONFIGURATION
- KV6 RM SERVER ADAPTER HEALTH SUMMARY
- KV6 RM SERVER BIOS FIRMWARE
- KV6 RM SERVER CONFIGURATION DETAILS
- KV6 RM SERVER CPU CONFIGURATION
- KV6 RM SERVER CPU HEALTH SUMMARY

- KV6 RM SERVER CPU STATISTICS
- KV6 RM SERVER DCE INTERFACE HEALTH
- KV6 RM SERVER DISK CONFIGURATION
- KV6 RM SERVER DISK HEALTH SUMMARY
- KV6 RM SERVER ETHER PORT COMM
- KV6 RM SERVER ETHER PORT ERROR
- KV6 RM SERVER ETHER PORT LARGE
- KV6 RM SERVER ETHER PORT OUTSIZED
- KV6 RM SERVER ETHER PORT PACKETS
- KV6 RM SERVER ETHER PORT SMALL
- KV6 RM SERVER FAN CONFIGURATION
- KV6 RM SERVER FAN HEALTH SUMMARY
- KV6 RM SERVER FAN MODULE DETAILS
- KV6 RM SERVER FAN MODULE HEALTH
- KV6 RM SERVER FAN MODULE TEMPERATURE
- KV6 RM SERVER FAN STATISTICS
- KV6 RM SERVER FC PORT STATISTICS
- KV6 RM SERVER FIRMWARE
- KV6 RM SERVER HBA CONFIGURATION
- KV6 RM SERVER HBA HEALTH SUMMARY
- KV6 RM SERVER HEALTH SUMMARY
- KV6 RM SERVER MEMORY ARRAY HEALTH
- KV6 RM SERVER MEMORY ARRAY STATISTICS
- KV6 RM SERVER MEMORY ARRAY UNIT
- KV6 RM SERVER MEMORY UNIT DETAILS
- KV6 RM SERVER MEMORY UNIT HEALTH
- KV6 RM SERVER MEMORY UNIT TEMP
- KV6 RM SERVER MOTHERBOARD DETAILS
- KV6 RM SERVER MOTHERBOARD HEALTH
- KV6 RM SERVER MOTHERBOARD POWER
- KV6 RM SERVER MOTHERBOARD TEMP
- KV6 RM SERVER NIC CONFIGURATION
- KV6 RM SERVER NIC HEALTH SUMMARY
- KV6 RM SERVER PSU CONFIGURATION
- KV6 RM SERVER PSU HEALTH SUMMARY
- KV6 RM SERVER PSU STATISTICS
- KV6 RM SERVER STORAGE CONTROLLER
- KV6 RM SERVER STORAGE DISK
- KV6 RM SERVER STORAGE DISK HEALTH
- KV6 SAN POOL DETAILS
- KV6 RM SERVER STORAGE HEALTH SUMMARY
- KV6 RM SERVER VNIC STATISTICS
- KV6 RM STORAGE FIRMWARE
- KV6 SAN POOL DETAILS
- KV6 SERVER ADAPTER CONFIGURATION

- KV6 SERVER ADAPTER HEALTH SUMMARY
- KV6 SERVER CONFIGURATION DETAILS
- KV6 SERVER CPU CONFIGURATION DETAILS
- KV6 SERVER CPU HEALTH SUMMARY
- KV6 SERVER CPU STATISTICS
- KV6 SERVER DCE INTERFACE SUMMARY
- KV6 SERVER DISK CONFIGURATION
- KV6 SERVER DISK HEALTH SUMMARY
- KV6 SERVER ETHER PORT COMMUNICATION
- KV6 SERVER ETHER PORT ERROR
- KV6 SERVER ETHER PORT LARGE
- KV6 SERVER ETHER PORT OUTSIZED
- KV6 SERVER ETHER PORT PACKETS
- KV6 SERVER ETHER PORT SMALL
- KV6 SERVER FC PORT STATISTICS
- KV6 SERVER HARDWARE FIRMWARE
- KV6 SERVER HBA CONFIGURATION DETAILS
- KV6 SERVER HBA HEALTH SUMMARY
- KV6 SERVER HEALTH SUMMARY
- KV6 SERVER MEMORY ARRAY STATISTICS
- KV6 SERVER MEMORY ARRAY UNIT DETAILS
- KV6 SERVER MEMORY ARRAY UNIT HEALTH
- KV6 SERVER MEMORY UNIT CONFIGURATION
- KV6 SERVER MEMORY UNIT TEMPERATURE
- KV6 SERVER MOTHERBOARD CONFIGURATION
- KV6 SERVER MOTHERBOARD HEALTH
- KV6 SERVER MOTHERBOARD POWER
- KV6 SERVER MOTHERBOARD TEMPERATURE
- KV6 SERVER NIC CONFIGURATION DETAILS
- KV6 SERVER NIC HEALTH SUMMARY
- KV6 SERVER POOL DETAILS
- KV6 SERVER STORAGE CONTROLLER
- KV6 SERVER STORAGE CONTROLLER HEALTH
- KV6 SERVER VNIC STATISTICS
- KV6 SERVICE PROFILE HEALTH
- KV6 SERVICE PROFILES VHBA HEALTH SUMMARY
- KV6 SERVICE PROFILES VNIC HEALTH SUMMARY
- KV6 SYS MON ALARM TRIGGER CONFIGURATION DETAILS
- KV6 SYS MON APPLIANCE PORT CONFIGURATION DETAILS
- KV6 SYS MON CORE FILE EXPORTER CONFIGURATION DETAILS
- KV6 SYS MON FAULT COLLECTION POLICY CONFIGURATION DETAILS
- KV6 SYS MON PORT CHANNEL CONFIGURATION DETAILS LAN
- KV6 SYS MON PORT CHANNEL CONFIGURATION DETAILS SAN
- KV6 SYS MON SERVER PORT CONFIGURATION DETAILS
- KV6 SYS MON STORAGE PORT CONFIGURATION DETAILS

- KV6 SYS MON SYSLOG LOCAL DESTINATION CONFIGURATION DETAILS
- KV6 SYS MON FCOE STORAGE PORT CONFIGURATION DETAILS
- KV6 SYS MON SYSLOG LOCAL SOURCES CONFIGURATION DETAILS
- KV6 SYS MON SYSLOG REMOTE DESTINATION CONFIGURATION DETAILS
- KV6 SYS MON THRESHOLD POLICY CONFIGURATION SUMMARY
- KV6 SYS MON THRESHOLD POLICY DEFINITION CONFIGURATION SUMMARY
- KV6 SYS MON TRAFFIC MONITORING SESSION HEALTH SUMMARY LAN
- KV6 SYS MON TRAFFIC MONITORING SESSION HEALTH SUMMARY SAN
- KV6 SYS MON UPLINK ETHERNET PORT CONFIGURATION DETAILS
- KV6 SYS MON UPLINK FC PORT CONFIGURATION DETAILS
- KV6 SYS MON VHBA CONFIGURATION DETAILS
- KV6 SYS MON VLAN CONFIGURATION DETAILS
- KV6 SYS MON VNIC CONFIGURATION DETAILS
- KV6 SYS MON VSAN CONFIGURATION DETAILS
- KV6 THREAD POOL STATUS
- KV6 UCS SERVERS HEALTH SUMMARY
- KV6 UUID SUFFIX POOL DETAILS
- KV6 VMWARE DATACENTER CONFIGURATION DETAILS
- KV6 VMWARE DVS CONFIGURATION DETAILS
- KV6 VMWARE ESX HOST SERVER HEALTH SUMMARY
- KV6 VMWARE FOLDER CONFIGURATION DETAILS
- KV6 VMWARE PORT PROFILE CONFIGURATION SUMMARY
- KV6 VMWARE PROFILE CLIENT CONFIGURATION DETAILS
- KV6 VMWARE VCENTER FOLDER CONFIGURATION SUMMARY
- KV6 VMWARE VCENTER HEALTH SUMMARY
- KV6 VMWARE VIF CONFIGURATION DETAILS
- KV6 VMWARE VIRTUAL MACHINE HEALTH SUMMARY
- KV6 VMWARE VLAN CONFIGURATION DETAILS
- KV6 VMWARE VNIC HEALTH SUMMARY
- KV6 VMWARE VNIC INTERFACE CONFIGURATION DETAILS

To ensure that the required views are present, run the following query against the Tivoli Data Warehouse:

- DB2: Select distinct "VIEWNAME" from SYSCAT.VIEWS where "VIEWNAME" like ' %V'
- Oracle: Select distinct "VIEW_NAME" from USER_VIEWS where "VIEWNAME" like '%V'
- MS SQL Server: Select distinct "NAME" from SYS.VIEWS where "NAME" like '%V'

If set up correctly, the result set contains the following views:

- KV6UCSSRVR_HV, KV6UCSSRVR_DV, KV6UCSSRVR_WV, KV6UCSSRVR_MV, KV6UCSSRVR_QV, KV6UCSSRVR_YV
- KV6CHSFEXH_HV, KV6CHSFEXH_DV, KV6CHSFEXH_WV, KV6CHSFEXH_MV, KV6CHSFEXH_QV, KV6CHSFEXH_YV
- KV6POBJST_HV, KV6POBJST_DV, KV6POBJST_WV, KV6POBJST_MV, KV6POBJST_QV, KV6POBJST_YV
- KV6FITMPST_HV, KV6FITMPST_DV, KV6FITMPST_WV, KV6FITMPST_MV, KV6FITMPST_QV, KV6FITMPST_YV
- KV6PSUCONF_HV, KV6PSUCONF_DV, KV6PSUCONF_WV, KV6PSUCONF_MV, KV6PSUCONF_QV, KV6PSUCONF_YV

- KV6CONFPRO_HV, KV6CONFPRO_DV, KV6CONFPRO_WV, KV6CONFPRO_MV, KV6CONFPRO_QV, KV6CONFPRO_YV
- KV6FANCONF_HV, KV6FANCONF_DV, KV6FANCONF_WV, KV6FANCONF_MV, KV6FANCONF_QV, KV6FANCONF_YV
- KV6EXPMODL_HV, KV6EXPMODL_DV, KV6EXPMODL_WV, KV6EXPMODL_MV, KV6EXPMODL_QV, KV6EXPMODL_YV
- KV6FIXPORT_HV, KV6FIXPORT_DV, KV6FIXPORT_WV, KV6FIXPORT_MV, KV6FIXPORT_QV, KV6FIXPORT_YV
- KV6SMSPCND_HV, KV6SMSPCND_DV, KV6SMSPCND_WV, KV6SMSPCND_MV, KV6SMSPCND_QV, KV6SMSPCND_YV
- KV6UEPLPCD_HV, KV6UEPLPCD_DV, KV6UEPLPCD_WV, KV6UEPLPCD_MV, KV6UEPLPCD_QV, KV6UEPLPCD_YV
- KV6VLANCFD_HV, KV6VLANCFD_DV, KV6VLANCFD_WV, KV6VLANCFD_MV, KV6VLANCFD_QV, KV6VLANCFD_YV
- KV6NCSRPCH_HV, KV6NCSRPCH_DV, KV6NCSRPCH_WV, KV6NCSRPCH_MV, KV6NCSRPCH_QV, KV6NCSRPCH_YV
- KV6LVHBCND_HV, KV6LVHBCND_DV, KV6LVHBCND_WV, KV6LVHBCND_MV, KV6LVHBCND_QV, KV6LVHBCND_YV
- KV6FCSTGCD_HV, KV6FCSTGCD_DV, KV6FCSTGCD_WV, KV6FCSTGCD_MV, KV6FCSTGCD_QV, KV6FCSTGCD_YV
- KV6TRMNLHS_HV, KV6TRMNLHS_DV, KV6TRMNLHS_WV, KV6TRMNLHS_MV, KV6TRMNLHS_QV, KV6TRMNLHS_YV
- KV6TFMNSHS_HV, KV6TFMNSHS_DV, KV6TFMNSHS_WV, KV6TFMNSHS_MV, KV6TFMNSHS_QV, KV6TFMNSHS_YV
- KV6VSANCFD_HV, KV6VSANCFD_DV, KV6VSANCFD_WV, KV6VSANCFD_MV, KV6VSANCFD_QV, KV6VSANCFD_YV
- KV6SANSTGP_HV, KV6SANSTGP_DV, KV6SANSTGP_WV, KV6SANSTGP_MV, KV6SANSTGP_QV, KV6SANSTGP_YV
- KV6CHSLTSM_HV, KV6CHSLTSM_DV, KV6CHSLTSM_WV, KV6CHSLTSM_MV, KV6CHSLTSM_QV, KV6CHSLTSM_YV
- KV6CHPOWER_HV, KV6CHPOWER_DV, KV6CHPOWER_WV, KV6CHPOWER_MV, KV6CHPOWER_QV, KV6CHPOWER_YV
- KV6FNMDLSM_HV, KV6FNMDLSM_DV, KV6FNMDLSM_WV, KV6FNMDLSM_MV, KV6FNMDLSM_QV, KV6FNMDLSM_YV
- KV6CHIOHSM_HV, KV6CHIOHSM_DV, KV6CHIOHSM_WV, KV6CHIOHSM_MV, KV6CHIOHSM_QV, KV6CHIOHSM_YV
- KV6CHPSHSM_HV, KV6CHPSHSM_DV, KV6CHPSHSM_WV, KV6CHPSHSM_MV, KV6CHPSHSM_QV, KV6CHPSHSM_YV
- KV6CHFANHS_HV, KV6CHFANHS_DV, KV6CHFANHS_WV, KV6CHFANHS_MV, KV6CHFANHS_QV, KV6CHFANHS_YV
- KV6CHACNFD_HV, KV6CHACNFD_DV, KV6CHACNFD_WV, KV6CHACNFD_MV, KV6CHACNFD_QV, KV6CHACNFD_YV
- KV6CIOCNFD_HV, KV6CIOCNFD_DV, KV6CIOCNFD_WV, KV6CIOCNFD_MV, KV6CIOCNFD_QV, KV6CIOCNFD_YV
- KV6FANMDCF_HV, KV6FANMDCF_DV, KV6FANMDCF_WV, KV6FANMDCF_MV, KV6FANMDCF_QV, KV6FANMDCF_YV
- KV6CHPSUCO_HV, KV6CHPSUCO_DV, KV6CHPSUCO_WV, KV6CHPSUCO_MV, KV6CHPSUCO_QV, KV6CHPSUCO_YV
- KV6IOMDTEM_HV, KV6IOMDTEM_DV, KV6IOMDTEM_WV, KV6IOMDTEM_MV, KV6IOMDTEM_QV, KV6IOMDTEM_YV

- KV6FANHELT_HV, KV6FANHELT_DV, KV6FANHELT_WV, KV6FANHELT_MV, KV6FANHELT_QV, KV6FANHELT_YV
- KV6BCKPLNP_HV, KV6BCKPLNP_DV, KV6BCKPLNP_WV, KV6BCKPLNP_MV, KV6BCKPLNP_QV, KV6BCKPLNP_YV
- KV6BNTSTAT_HV, KV6BNTSTAT_DV, KV6BNTSTAT_WV, KV6BNTSTAT_MV, KV6BNTSTAT_QV, KV6BNTSTAT_YV
- KV6CHBKERS_HV, KV6CHBKERS_DV, KV6CHBKERS_WV, KV6CHBKERS_MV, KV6CHBKERS_QV, KV6CHBKERS_YV
- KV6CHBKLOS_HV, KV6CHBKLOS_DV, KV6CHBKLOS_WV, KV6CHBKLOS_MV, KV6CHBKLOS_QV, KV6CHBKLOS_YV
- KV6CHBKPSE_HV, KV6CHBKPSE_DV, KV6CHBKPSE_WV, KV6CHBKPSE_MV, KV6CHBKPSE_QV, KV6CHBKPSE_YV
- KV6CHHWFWD_HV, KV6CHHWFWD_DV, KV6CHHWFWD_WV, KV6CHHWFWD_MV, KV6CHHWFWD_QV, KV6CHHWFWD_YV
- KV6MOTHESM_HV, KV6MOTHESM_DV, KV6MOTHESM_WV, KV6MOTHESM_MV, KV6MOTHESM_QV, KV6MOTHESM_YV
- KV6MEAHESM_HV, KV6MEAHESM_DV, KV6MEAHESM_WV, KV6MEAHESM_MV, KV6MEAHESM_QV, KV6MEAHESM_YV
- KV6CPUHESM_HV, KV6CPUHESM_DV, KV6CPUHESM_WV, KV6CPUHESM_MV, KV6CPUHESM_QV, KV6CPUHESM_YV
- KV6STCHESM_HV, KV6STCHESM_DV, KV6STCHESM_WV, KV6STCHESM_MV, KV6STCHESM_QV, KV6STCHESM_YV
- KV6DSKHESM_HV, KV6DSKHESM_DV, KV6DSKHESM_WV, KV6DSKHESM_MV, KV6DSKHESM_QV, KV6DSKHESM_YV
- KV6INCHESM_HV, KV6INCHESM_DV, KV6INCHESM_WV, KV6INCHESM_MV, KV6INCHESM_QV, KV6INCHESM_YV
- KV6MBPOWST_HV, KV6MBPOWST_DV, KV6MBPOWST_WV, KV6MBPOWST_MV, KV6MBPOWST_QV, KV6MBPOWST_YV
- KV6MBTEMST_HV, KV6MBTEMST_DV, KV6MBTEMST_WV, KV6MBTEMST_MV, KV6MBTEMST_QV, KV6MBTEMST_YV
- KV6MEMTMPS_HV, KV6MEMTMPS_DV, KV6MEMTMPS_WV, KV6MEMTMPS_MV, KV6MEMTMPS_QV, KV6MEMTMPS_YV
- KV6NICHSUM_HV, KV6NICHSUM_DV, KV6NICHSUM_WV, KV6NICHSUM_MV, KV6NICHSUM_QV, KV6NICHSUM_YV
- KV6HBAHSUM_HV, KV6HBAHSUM_DV, KV6HBAHSUM_WV, KV6HBAHSUM_MV, KV6HBAHSUM_QV, KV6HBAHSUM_YV
- KV6DCEHSUM_HV, KV6DCEHSUM_DV, KV6DCEHSUM_WV, KV6DCEHSUM_MV, KV6DCEHSUM_QV, KV6DCEHSUM_YV
- KV6BSETPCM_HV, KV6BSETPCM_DV, KV6BSETPCM_WV, KV6BSETPCM_MV, KV6BSETPCM_QV, KV6BSETPCM_YV
- KV6BSETPOS_HV, KV6BSETPOS_DV, KV6BSETPOS_WV, KV6BSETPOS_MV, KV6BSETPOS_QV, KV6BSETPOS_YV
- KV6BSETPPS_HV, KV6BSETPPS_DV, KV6BSETPPS_WV, KV6BSETPPS_MV, KV6BSETPPS_QV, KV6BSETPPS_YV
- KV6FCPRTST_HV, KV6FCPRTST_DV, KV6FCPRTST_WV, KV6FCPRTST_MV, KV6FCPRTST_QV, KV6FCPRTST_YV
- KV6BSCONFI_HV, KV6BSCONFI_DV, KV6BSCONFI_WV, KV6BSCONFI_MV, KV6BSCONFI_QV, KV6BSCONFI_YV
- KV6BSMTHRD_HV, KV6BSMTHRD_DV, KV6BSMTHRD_WV, KV6BSMTHRD_MV, KV6BSMTHRD_QV, KV6BSMTHRD_YV

- KV6BSMEMAR_HV, KV6BSMEMAR_DV, KV6BSMEMAR_WV, KV6BSMEMAR_MV, KV6BSMEMAR_QV, KV6BSMEMAR_YV
- KV6BSMEMUN_HV, KV6BSMEMUN_DV, KV6BSMEMUN_WV, KV6BSMEMUN_MV, KV6BSMEMUN_QV, KV6BSMEMUN_YV
- KV6BSCPUCN_HV, KV6BSCPUCN_DV, KV6BSCPUCN_WV, KV6BSCPUCN_MV, KV6BSCPUCN_QV, KV6BSCPUCN_YV
- KV6BSSTCON_HV, KV6BSSTCON_DV, KV6BSSTCON_WV, KV6BSSTCON_MV, KV6BSSTCON_QV, KV6BSSTCON_YV
- KV6BSDISKC_HV, KV6BSDISKC_DV, KV6BSDISKC_WV, KV6BSDISKC_MV, KV6BSDISKC_QV, KV6BSDISKC_YV
- KV6ICDCNFD_HV, KV6ICDCNFD_DV, KV6ICDCNFD_WV, KV6ICDCNFD_MV, KV6ICDCNFD_QV, KV6ICDCNFD_YV
- KV6NICCNFD_HV, KV6NICCNFD_DV, KV6NICCNFD_WV, KV6NICCNFD_MV, KV6NICCNFD_QV, KV6NICCNFD_YV
- KV6HBACNFD_HV, KV6HBACNFD_DV, KV6HBACNFD_WV, KV6HBACNFD_MV, KV6HBACNFD_QV, KV6HBACNFD_YV
- KV6BSHWFWD_HV, KV6BSHWFWD_DV, KV6BSHWFWD_WV, KV6BSHWFWD_MV, KV6BSHWFWD_QV, KV6BSHWFWD_YV
- KV6CRFEXCD_HV, KV6CRFEXCD_DV, KV6CRFEXCD_WV, KV6CRFEXCD_MV, KV6CRFEXCD_QV, KV6CRFEXCD_YV
- KV6SLDCNFD_HV, KV6SLDCNFD_DV, KV6SLDCNFD_WV, KV6SLDCNFD_MV, KV6SLDCNFD_QV, KV6SLDCNFD_YV
- KV6SRDCNFD_HV, KV6SRDCNFD_DV, KV6SRDCNFD_WV, KV6SRDCNFD_MV,KV6SRDCNFD_QV, KV6SRDCNFD_YV
- KV6SLSCNFD_HV, KV6SLSCNFD_DV, KV6SLSCNFD_WV, KV6SLSCNFD_MV, KV6SLSCNFD_QV, KV6SLSCNFD_YV
- KV6FOLTPLC_HV, KV6FOLTPLC_DV, KV6FOLTPLC_WV, KV6FOLTPLC_MV, KV6FOLTPLC_QV, KV6FOLTPLC_YV
- KV6VNICHLT_HV, KV6VNICHLT_DV, KV6VNICHLT_WV, KV6VNICHLT_MV, KV6VNICHLT_QV, KV6VNICHLT_YV
- KV6VHBAHLT_HV, KV6VHBAHLT_DV, KV6VHBAHLT_WV, KV6VHBAHLT_MV, KV6VHBAHLT_QV, KV6VHBAHLT_YV
- KV6QOSPOLC_HV, KV6QOSPOLC_DV,KV6QOSPOLC_WV, KV6QOSPOLC_MV, KV6QOSPOLC_QV, KV6QOSPOLC_YV
- KV6BIOSSUM_HV, KV6BIOSSUM_DV,KV6BIOSSUM_WV, KV6BIOSSUM_MV, KV6BIOSSUM_QV, KV6BIOSSUM_YV
- KV6BIOSADV_HV, KV6BIOSADV_DV, KV6BIOSADV_WV, KV6BIOSADV_MV, KV6BIOSADV_QV, KV6BIOSADV_YV
- KV6BIOSDET_HV, KV6BIOSDET_DV, KV6BIOSDET_WV, KV6BIOSDET_MV, KV6BIOSDET_QV, KV6BIOSDET_YV
- KV6SCRUBPO_HV, KV6SCRUBPO_DV, KV6SCRUBPO_WV, KV6SCRUBPO_MV, KV6SCRUBPO_QV, KV6SCRUBPO_YV
- KV6SOLPOLC_HV, KV6SOLPOLC_DV, KV6SOLPOLC_WV, KV6SOLPOLC_MV, KV6SOLPOLC_QV, KV6SOLPOLC_YV
- KV6PLACMNT_HV, KV6PLACMNT_DV, KV6PLACMNT_WV, KV6PLACMNT_MV, KV6PLACMNT_QV, KV6PLACMNT_YV
- KV6VHOSTIF_HV, KV6VHOSTIF_DV, KV6VHOSTIF_WV, KV6VHOSTIF_MV, KV6VHOSTIF_QV, KV6VHOSTIF_YV
- KV6IPMIACS_HV, KV6IPMIACS_DV, KV6IPMIACS_WV, KV6IPMIACS_MV, KV6IPMIACS_QV, KV6IPMIACS_YV

- KV6IPMIUSR_HV, KV6IPMIUSR_DV, KV6IPMIUSR_WV, KV6IPMIUSR_MV, KV6IPMIUSR_QV, KV6IPMIUSR_YV
- KV6BOOTPCS_HV, KV6BOOTPCS_DV, KV6BOOTPCS_WV, KV6BOOTPCS_MV, KV6BOOTPCS_QV, KV6BOOTPCS_YV
- KV6STRBTOS_HV, KV6STRBTOS_DV, KV6STRBTOS_WV, KV6STRBTOS_MV, KV6STRBTOS_QV, KV6STRBTOS_YV
- KV6LANBTOS_HV, KV6LANBTOS_DV, KV6LANBTOS_WV, KV6LANBTOS_MV, KV6LANBTOS_QV, KV6LANBTOS_YV
- KV6VMBOTOS_HV, KV6VMBOTOS_DV, KV6VMBOTOS_WV, KV6VMBOTOS_MV, KV6VMBOTOS_QV, KV6VMBOTOS_YV
- KV6THRPOLC_HV, KV6THRPOLC_DV, KV6THRPOLC_WV, KV6THRPOLC_MV, KV6THRPOLC_QV, KV6THRPOLC_YV
- KV6THRPOLD_HV, KV6THRPOLD_DV, KV6THRPOLD_WV, KV6THRPOLD_MV, KV6THRPOLD_QV, KV6THRPOLD_YV
- KV6ALRMTRG_HV, KV6ALRMTRG_DV, KV6ALRMTRG_WV, KV6ALRMTRG_MV, KV6ALRMTRG_QV, KV6ALRMTRG_YV
- KV6ISCICFS_HV, KV6ISCICFS_DV, KV6ISCICFS_WV, KV6ISCICFS_MV, KV6ISCICFS_QV, KV6ISCICFS_YV
- KV6ISCBSTC_HV, KV6ISCBSTC_DV, KV6ISCBSTC_WV, KV6ISCBSTC_MV, KV6ISCBSTC_QV, KV6ISCBSTC_YV
- KV6ISCBPOC_HV, KV6ISCBPOC_DV, KV6ISCBPOC_WV, KV6ISCBPOC_MV, KV6ISCBPOC_QV, KV6ISCBPOC_YV
- KV6ISCVNCS_HV, KV6ISCVNCS_DV, KV6ISCVNCS_WV, KV6ISCVNCS_MV, KV6ISCVNCS_QV, KV6ISCVNCS_YV
- KV6UIDSUFX_HV, KV6UIDSUFX_DV, KV6UIDSUFX_WV, KV6UIDSUFX_MV, KV6UIDSUFX_QV, KV6UIDSUFX_YV
- KV6SRPLCNF_HV, KV6SRPLCNF_DV, KV6SRPLCNF_WV, KV6SRPLCNF_MV, KV6SRPLCNF_QV, KV6SRPLCNF_YV
- KV6UUIDSFX_HV, KV6UUIDSFX_DV, KV6UUIDSFX_WV, KV6UUIDSFX_MV, KV6UUIDSFX_QV, KV6UUIDSFX_YV
- KV6UUBKCNF_HV, KV6UUBKCNF_DV, KV6UUBKCNF_WV, KV6UUBKCNF_MV, KV6UUBKCNF_QV, KV6UUBKCNF_YV
- KV6MACADCF_HV, KV6MACADCF_DV, KV6MACADCF_WV, KV6MACADCF_MV, KV6MACADCF_QV, KV6MACADCF_YV
- KV6MACCNFD_HV, KV6MACCNFD_DV, KV6MACCNFD_WV, KV6MACCNFD_MV, KV6MACCNFD_QV, KV6MACCNFD_YV
- KV6WWNINBC_HV, KV6WWNINBC_DV, KV6WWNINBC_WV, KV6WWNINBC_MV, KV6WWNINBC_QV, KV6WWNINBC_YV
- KV6INITCNF_HV, KV6INITCNF_DV, KV6INITCNF_WV, KV6INITCNF_MV, KV6INITCNF_QV, KV6INITCNF_YV
- KV6FIOHLTH_HV, KV6FIOHLTH_DV, KV6FIOHLTH_WV, KV6FIOHLTH_MV, KV6FIOHLTH_QV, KV6FIOHLTH_YV
- KV6FEXENVR_HV, KV6FEXENVR_DV, KV6FEXENVR_WV, KV6FEXENVR_MV, KV6FEXENVR_QV, KV6FEXENVR_YV
- KV6FFANCON_HV, KV6FFANCON_DV, KV6FFANCON_WV, KV6FFANCON_MV, KV6FFANCON_QV, KV6FFANCON_YV
- KV6FIOCNFD_HV, KV6FIOCNFD_DV, KV6FIOCNFD_WV, KV6FIOCNFD_MV, KV6FIOCNFD_QV, KV6FIOCNFD_YV
- KV6FPSUCOF_HV, KV6FPSUCOF_DV, KV6FPSUCOF_WV, KV6FPSUCOF_MV, KV6FPSUCOF_QV, KV6FPSUCOF_YV

- KV6FEXBPCL_HV, KV6FEXBPCL_DV, KV6FEXBPCL_WV, KV6FEXBPCL_MV, KV6FEXBPCL_QV, KV6FEXBPCL_YV
- KV6FPSUENV_HV, KV6FPSUENV_DV, KV6FPSUENV_WV, KV6FPSUENV_MV, KV6FPSUENV_QV, KV6FPSUENV_YV
- KV6BCKPHSM_HV, KV6BCKPHSM_DV, KV6BCKPHSM_WV, KV6BCKPHSM_MV, KV6BCKPHSM_QV, KV6BCKPHSM_YV
- KV6FPHLTSM_HV, KV6FPHLTSM_DV, KV6FPHLTSM_WV, KV6FPHLTSM_MV, KV6FPHLTSM_QV, KV6FPHLTSM_YV
- KV6FXBKERS_HV, KV6FXBKERS_DV, KV6FXBKERS_WV, KV6FXBKERS_MV, KV6FXBKERS_QV, KV6FXBKERS_YV
- KV6FXBKPSE_HV, KV6FXBKPSE_DV, KV6FXBKPSE_WV, KV6FXBKPSE_MV, KV6FXBKPSE_QV, KV6FXBKPSE_YV
- KV6FEXBCKS_HV, KV6FEXBCKS_DV, KV6FEXBCKS_WV, KV6FEXBCKS_MV, KV6FEXBCKS_QV, KV6FEXBCKS_YV
- KV6RACMONT_HV, KV6RACMONT_DV, KV6RACMONT_WV, KV6RACMONT_MV, KV6RACMONT_QV, KV6RACMONT_YV
- KV6MEMAICS_HV, KV6MEMAICS_DV, KV6MEMAICS_WV, KV6MEMAICS_MV, KV6MEMAICS_QV, KV6MEMAICS_YV
- KV6MTHRBRD_HV, KV6MTHRBRD_DV, KV6MTHRBRD_WV, KV6MTHRBRD_MV, KV6MTHRBRD_QV, KV6MTHRBRD_YV
- KV6RCKMCPU_HV, KV6RCKMCPU_DV, KV6RCKMCPU_WV, KV6RCKMCPU_MV, KV6RCKMCPU_QV, KV6RCKMCPU_YV
- KV6RMHBSUM_HV, KV6RMHBSUM_DV, KV6RMHBSUM_WV, KV6RMHBSUM_MV, KV6RMHBSUM_QV, KV6RMHBSUM_YV
- KV6MMARYUN_HV, KV6MMARYUN_DV, KV6MMARYUN_WV, KV6MMARYUN_MV, KV6MMARYUN_QV, KV6MMARYUN_YV
- KV6RMSTOCO_HV, KV6RMSTOCO_DV, KV6RMSTOCO_WV, KV6RMSTOCO_MV, KV6RMSTOCO_QV, KV6RMSTOCO_YV
- KV6RMTDISK_HV, KV6RMTDISK_DV, KV6RMTDISK_WV, KV6RMTDISK_MV, KV6RMTDISK_QV, KV6RMTDISK_YV
- KV6RMFANMD_HV, KV6RMFANMD_DV, KV6RMFANMD_WV, KV6RMFANMD_MV, KV6RMFANMD_QV, KV6RMFANMD_YV
- KV6RMFANHL_HV, KV6RMFANHL_DV, KV6RMFANHL_WV, KV6RMFANHL_MV, KV6RMFANHL_QV, KV6RMFANHL_YV
- KV6RMADPTR_HV, KV6RMADPTR_DV, KV6RMADPTR_WV, KV6RMADPTR_MV, KV6RMADPTR_QV, KV6RMADPTR_YV
- KV6RMPSUHL_HV, KV6RMPSUHL_DV, KV6RMPSUHL_WV, KV6RMPSUHL_MV, KV6RMPSUHL_QV, KV6RMPSUHL_YV
- KV6RMDCEIN_HV, KV6RMDCEIN_DV, KV6RMDCEIN_WV, KV6RMDCEIN_MV, KV6RMDCEIN_QV, KV6RMDCEIN_YV
- KV6RCKMNIC_HV, KV6RCKMNIC_DV, KV6RCKMNIC_WV, KV6RCKMNIC_MV, KV6RCKMNIC_QV, KV6RCKMNIC_YV
- KV6RMMOTHB_HV, KV6RMMOTHB_DV, KV6RMMOTHB_WV, KV6RMMOTHB_MV, KV6RMMOTHB_QV, KV6RMMOTHB_YV
- KV6RMMOHTE_HV, KV6RMMOHTE_DV, KV6RMMOHTE_WV, KV6RMMOHTE_MV, KV6RMMOHTE_QV, KV6RMMOHTE_YV
- KV6RMUNITE_HV, KV6RMUNITE_DV, KV6RMUNITE_WV, KV6RMUNITE_MV, KV6RMUNITE_QV, KV6RMUNITE_YV
- KV6RMCPUEN_HV, KV6RMCPUEN_DV, KV6RMCPUEN_WV, KV6RMCPUEN_MV, KV6RMCPUEN_QV, KV6RMCPUEN_YV

- KV6RMETHLG_HV, KV6RMETHLG_DV, KV6RMETHLG_WV, KV6RMETHLG_MV, KV6RMETHLG_QV, KV6RMETHLG_YV
- KV6RMETPSM_HV, KV6RMETPSM_DV, KV6RMETPSM_WV, KV6RMETPSM_MV, KV6RMETPSM_QV, KV6RMETPSM_YV
- KV6RMETPER_HV, KV6RMETPER_DV, KV6RMETPER_WV, KV6RMETPER_MV, KV6RMETPER_QV, KV6RMETPER_YV
- KV6RMETPCM_HV, KV6RMETPCM_DV, KV6RMETPCM_WV, KV6RMETPCM_MV, KV6RMETPCM_QV, KV6RMETPCM_YV
- KV6RMETPOS_HV, KV6RMETPOS_DV, KV6RMETPOS_WV, KV6RMETPOS_MV, KV6RMETPOS_QV, KV6RMETPOS_YV
- KV6RMETPPS_HV, KV6RMETPPS_DV, KV6RMETPPS_WV, KV6RMETPPS_MV, KV6RMETPPS_QV, KV6RMETPPS_YV
- KV6RMVNICS_HV, KV6RMVNICS_DV, KV6RMVNICS_WV, KV6RMVNICS_MV, KV6RMVNICS_QV, KV6RMVNICS_YV
- KV6RMCONFI_HV, KV6RMCONFI_DV, KV6RMCONFI_WV, KV6RMCONFI_MV, KV6RMCONFI_QV, KV6RMCONFI_YV
- KV6RMMTHRD_HV, KV6RMMTHRD_DV, KV6RMMTHRD_WV, KV6RMMTHRD_MV, KV6RMMTHRD_QV, KV6RMMTHRD_YV
- KV6RMMEMUD_HV, KV6RMMEMUD_DV, KV6RMMEMUD_WV, KV6RMMEMUD_MV, KV6RMMEMUD_QV, KV6RMMEMUD_YV
- KV6RMCPUCN_HV, KV6RMCPUCN_DV, KV6RMCPUCN_WV, KV6RMCPUCN_MV, KV6RMCPUCN_QV, KV6RMCPUCN_YV
- KV6RMSTCON_HV, KV6RMSTCON_DV, KV6RMSTCON_WV, KV6RMSTCON_MV, KV6RMSTCON_QV, KV6RMSTCON_YV
- KV6RMICDCN_HV, KV6RMICDCN_DV, KV6RMICDCN_WV, KV6RMICDCN_MV, KV6RMICDCN_QV, KV6RMICDCN_YV
- KV6RMMEMUN_HV, KV6RMMEMUN_DV, KV6RMMEMUN_WV, KV6RMMEMUN_MV, KV6RMMEMUN_QV, KV6RMMEMUN_YV
- KV6RMNICCN_HV, KV6RMNICCN_DV, KV6RMNICCN_WV, KV6RMNICCN_MV, KV6RMNICCN_QV, KV6RMNICCN_YV
- KV6RMPSUST_HV, KV6RMPSUST_DV, KV6RMPSUST_WV, KV6RMPSUST_MV, KV6RMPSUST_QV, KV6RMPSUST_YV
- KV6RMPSUCN_HV, KV6RMPSUCN_DV, KV6RMPSUCN_WV, KV6RMPSUCN_MV, KV6RMPSUCN_QV, KV6RMPSUCN_YV
- KV6RMFANST_HV, KV6RMFANST_DV, KV6RMFANST_WV, KV6RMFANST_MV, KV6RMFANST_QV, KV6RMFANST_YV
- KV6RMFMCNF_HV, KV6RMFMCNF_DV, KV6RMFMCNF_WV, KV6RMFMCNF_MV, KV6RMFMCNF_QV, KV6RMFMCNF_YV
- KV6RMFANCF_HV, KV6RMFANCF_DV, KV6RMFANCF_WV, KV6RMFANCF_MV, KV6RMFANCF_QV, KV6RMFANCF_YV
- KV6MUNHLTH_HV, KV6MUNHLTH_DV, KV6MUNHLTH_WV, KV6MUNHLTH_MV, KV6MUNHLTH_QV, KV6MUNHLTH_YV
- KV6RMDSHLT_HV, KV6RMDSHLT_DV, KV6RMDSHLT_WV, KV6RMDSHLT_MV, KV6RMDSHLT_QV, KV6RMDSHLT_YV
- KV6RMSDCFD_HV, KV6RMSDCFD_DV, KV6RMSDCFD_WV, KV6RMSDCFD_MV, KV6RMSDCFD_QV, KV6RMSDCFD_YV
- KV6RMAUICS_HV, KV6RMAUICS_DV, KV6RMAUICS_WV, KV6RMAUICS_MV, KV6RMAUICS_QV, KV6RMAUICS_YV
- KV6VCENSUM_HV, KV6VCENSUM_DV, KV6VCENSUM_WV, KV6VCENSUM_MV, KV6VCENSUM_QV, KV6VCENSUM_YV

- KV6ESXSUMR_HV, KV6ESXSUMR_DV, KV6ESXSUMR_WV, KV6ESXSUMR_MV, KV6ESXSUMR_QV, KV6ESXSUMR_YV
- KV6VNICHLH_HV, KV6VNICHLH_DV, KV6VNICHLH_WV, KV6VNICHLH_MV, KV6VNICHLH_QV, KV6VNICHLH_YV
- KV6PORTPRF_HV, KV6PORTPRF_DV, KV6PORTPRF_WV, KV6PORTPRF_MV, KV6PORTPRF_QV, KV6PORTPRF_YV
- KV6DATACNT_HV, KV6DATACNT_DV, KV6DATACNT_WV, KV6DATACNT_MV, KV6DATACNT_QV, KV6DATACNT_YV
- KV6FOLDERT_HV, KV6FOLDERT_DV, KV6FOLDERT_WV, KV6FOLDERT_MV, KV6FOLDERT_QV, KV6FOLDERT_YV
- KV6DVSSMRY_HV, KV6DVSSMRY_DV, KV6DVSSMRY_WV, KV6DVSSMRY_MV, KV6DVSSMRY_QV, KV6DVSSMRY_YV
- KV6VNICINF_HV, KV6VNICINF_DV, KV6VNICINF_WV, KV6VNICINF_MV, KV6VNICINF_QV, KV6VNICINF_YV
- KV6PROFLCL_HV, KV6PROFLCL_DV, KV6PROFLCL_WV, KV6PROFLCL_MV, KV6PROFLCL_QV, KV6PROFLCL_YV
- KV6VIFSUMR_HV, KV6VIFSUMR_DV, KV6VIFSUMR_WV, KV6VIFSUMR_MV, KV6VIFSUMR_QV, KV6VIFSUMR_YV
- KV6VLANSUM_HV, KV6VLANSUM_DV, KV6VLANSUM_WV, KV6VLANSUM_MV, KV6VLANSUM_QV, KV6VLANSUM_YV
- KV6VCFOLDR_HV, KV6VCFOLDR_DV, KV6VCFOLDR_WV, KV6VCFOLDR_MV, KV6VCFOLDR_QV, KV6VCFOLDR_YV
- KV6FANSPED_HV, KV6FANSPED_DV, KV6FANSPED_WV, KV6FANSPED_MV, KV6FANSPED_QV, KV6FANSPED_YV
- KV6FIOMDTE_HV, KV6FIOMDTE_DV, KV6FIOMDTE_WV, KV6FIOMDTE_MV, KV6FIOMDTE_QV, KV6FIOMDTE_YV
- KV6RMFANTM_HV, KV6RMFANTM_DV, KV6RMFANTM_WV, KV6RMFANTM_MV, KV6RMFANTM_QV, KV6RMFANTM_YV
- KV6RMFCPRT_HV, KV6RMFCPRT_DV, KV6RMFCPRT_WV, KV6RMFCPRT_MV, KV6RMFCPRT_QV, KV6RMFCPRT_YV
- KV6RMHBACN_HV, KV6RMHBACN_DV, KV6RMHBACN_WV, KV6RMHBACN_MV, KV6RMHBACN_QV, KV6RMHBACN_YV
- KV6RMHBSUM_HV, KV6RMHBSUM_DV, KV6RMHBSUM_WV, KV6RMHBSUM_MV, KV6RMHBSUM_QV, KV6RMHBSUM_YV
- KV6APPSPCD_HV, KV6APPSPCD_DV, KV6APPSPCD_WV, KV6APPSPCD_MV, KV6APPSPCD_QV, KV6APPSPCD_YV
- KV6LNPRTCH_HV, KV6LNPRTCH_DV, KV6LNPRTCH_WV, KV6LNPRTCH_MV, KV6LNPRTCH_QV, KV6LNPRTCH_YV
- KV6SNPRTCH_HV, KV6SNPRTCH_DV, KV6SNPRTCH_WV, KV6SNPRTCH_MV, KV6SNPRTCH_QV, KV6SNPRTCH_YV
- KV6UEPSPCD_HV, KV6UEPSPCD_DV, KV6UEPSPCD_WV, KV6UEPSPCD_MV, KV6UEPSPCD_QV, KV6UEPSPCD_YV
- KV6VIRMCSM_HV, KV6VIRMCSM_DV, KV6VIRMCSM_WV, KV6VIRMCSM_MV, KV6VIRMCSM_QV, KV6VIRMCSM_YV
- KV6_CHASSIS_FAN_STATISTICS_HV, KV6_CHASSIS_FAN_STATISTICS_DV, KV6_CHASSIS_FAN_STATISTICS_WV, KV6_CHASSIS_FAN_STATISTICS_MV, KV6_CHASSIS_FAN_STATISTICS_QV, KV6_CHASSIS_FAN_STATISTICS_YV
- KV6_CHASSIS_HEALTH_SUMMARY_HV, KV6_CHASSIS_HEALTH_SUMMARY_DV, KV6_CHASSIS_HEALTH_SUMMARY_WV, KV6_CHASSIS_HEALTH_SUMMARY_MV, KV6_CHASSIS_HEALTH_SUMMARY_QV, KV6_CHASSIS_HEALTH_SUMMARY_YV

- KV6_CHASSIS_PSU_STATISTICS_HV, KV6_CHASSIS_PSU_STATISTICS_DV, KV6_CHASSIS_PSU_STATISTICS_WV, KV6_CHASSIS_PSU_STATISTICS_MV, KV6_CHASSIS_PSU_STATISTICS_QV, KV6_CHASSIS_PSU_STATISTICS_YV
- KV6_CHASSIS_SLOT_DETAILS_HV, KV6_CHASSIS_SLOT_DETAILS_DV, KV6_CHASSIS_SLOT_DETAILS_WV, KV6_CHASSIS_SLOT_DETAILS_MV, KV6_CHASSIS_SLOT_DETAILS_QV, KV6_CHASSIS_SLOT_DETAILS_YV
- KV6_CISCO_UCS_TOPOLOGY_HV, KV6_CISCO_UCS_TOPOLOGY_DV, KV6_CISCO_UCS_TOPOLOGY_WV, KV6_CISCO_UCS_TOPOLOGY_MV, KV6_CISCO_UCS_TOPOLOGY_QV, KV6_CISCO_UCS_TOPOLOGY_YV
- KV6_FAULTS_HV, KV6_FAULTS_DV, KV6_FAULTS_WV, KV6_FAULTS_MV, KV6_FAULTS_QV, KV6_FAULTS_YV
- KV6_FEX_BACKPLANE_PORT_LOSS_HV, KV6_FEX_BACKPLANE_PORT_LOSS_DV, KV6_FEX_BACKPLANE_PORT_LOSS_WV, KV6_FEX_BACKPLANE_PORT_LOSS_MV, KV6_FEX_BACKPLANE_PORT_LOSS_QV, KV6_FEX_BACKPLANE_PORT_LOSS_YV
- KV6_FEX_FABRIC_PORT_CONFIG_HV, KV6_FEX_FABRIC_PORT_CONFIG_DV, KV6_FEX_FABRIC_PORT_CONFIG_WV, KV6_FEX_FABRIC_PORT_CONFIG_MV, KV6_FEX_FABRIC_PORT_CONFIG_QV, KV6_FEX_FABRIC_PORT_CONFIG_YV
- KV6_FEX_FAN_HEALTH_SUMMARY_HV, KV6_FEX_FAN_HEALTH_SUMMARY_DV, KV6_FEX_FAN_HEALTH_SUMMARY_WV, KV6_FEX_FAN_HEALTH_SUMMARY_MV, KV6_FEX_FAN_HEALTH_SUMMARY_QV, KV6_FEX_FAN_HEALTH_SUMMARY_YV
- KV6_FEX_FIRMWARE_HV, KV6_FEX_FIRMWARE_DV, KV6_FEX_FIRMWARE_WV, KV6_FEX_FIRMWARE_MV, KV6_FEX_FIRMWARE_VV
- KV6_FEX_HEALTH_SUMMARY_HV, KV6_FEX_HEALTH_SUMMARY_DV, KV6_FEX_HEALTH_SUMMARY_WV, KV6_FEX_HEALTH_SUMMARY_MV, KV6_FEX_HEALTH_SUMMARY_QV, KV6_FEX_HEALTH_SUMMARY_YV
- KV6_FEX_PSU_HEALTH_SUMMARY_HV, KV6_FEX_PSU_HEALTH_SUMMARY_DV, KV6_FEX_PSU_HEALTH_SUMMARY_WV, KV6_FEX_PSU_HEALTH_SUMMARY_MV, KV6_FEX_PSU_HEALTH_SUMMARY_QV, KV6_FEX_PSU_HEALTH_SUMMARY_YV
- KV6_FI_FAN_HEALTH_SUMMARY_HV, KV6_FI_FAN_HEALTH_SUMMARY_DV, KV6_FI_FAN_HEALTH_SUMMARY_WV, KV6_FI_FAN_HEALTH_SUMMARY_MV, KV6_FI_FAN_HEALTH_SUMMARY_QV, KV6_FI_FAN_HEALTH_SUMMARY_YV
- KV6_FI_HARDWARE_FIRMWARE_HV, KV6_FI_HARDWARE_FIRMWARE_DV, KV6_FI_HARDWARE_FIRMWARE_WV, KV6_FI_HARDWARE_FIRMWARE_MV, KV6_FI_HARDWARE_FIRMWARE_QV, KV6_FI_HARDWARE_FIRMWARE_YV
- KV6_FI_HEALTH_SUMMARY_HV, KV6_FI_HEALTH_SUMMARY_DV, KV6_FI_HEALTH_SUMMARY_WV, KV6_FI_HEALTH_SUMMARY_MV, KV6_FI_HEALTH_SUMMARY_QV, KV6_FI_HEALTH_SUMMARY_YV
- KV6_FI_LAN_ERROR_STATISTICS_HV, KV6_FI_LAN_ERROR_STATISTICS_DV, KV6_FI_LAN_ERROR_STATISTICS_WV, KV6_FI_LAN_ERROR_STATISTICS_MV, KV6_FI_LAN_ERROR_STATISTICS_QV, KV6_FI_LAN_ERROR_STATISTICS_YV
- KV6_FI_LAN_LOSS_STATISTICS_HV, KV6_FI_LAN_LOSS_STATISTICS_DV, KV6_FI_LAN_LOSS_STATISTICS_WV, KV6_FI_LAN_LOSS_STATISTICS_MV, KV6_FI_LAN_LOSS_STATISTICS_QV, KV6_FI_LAN_LOSS_STATISTICS_YV
- KV6_FI_LAN_PAUSE_STATISTICS_HV, KV6_FI_LAN_PAUSE_STATISTICS_DV, KV6_FI_LAN_PAUSE_STATISTICS_WV, KV6_FI_LAN_PAUSE_STATISTICS_MV, KV6_FI_LAN_PAUSE_STATISTICS_QV, KV6_FI_LAN_PAUSE_STATISTICS_YV
- KV6_FI_LAN_STATISTICS_HV, KV6_FI_LAN_STATISTICS_DV, KV6_FI_LAN_STATISTICS_WV, KV6_FI_LAN_STATISTICS_MV, KV6_FI_LAN_STATISTICS_QV, KV6_FI_LAN_STATISTICS_YV
- KV6_FI_PORT_SUMMARY_HV, KV6_FI_PORT_SUMMARY_DV, KV6_FI_PORT_SUMMARY_WV, KV6_FI_PORT_SUMMARY_MV, KV6_FI_PORT_SUMMARY_QV, KV6_FI_PORT_SUMMARY_YV

- KV6_FI_PORT_USAGE_HV, KV6_FI_PORT_USAGE_DV, KV6_FI_PORT_USAGE_WV, KV6_FI_PORT_USAGE_MV, KV6_FI_PORT_USAGE_QV, KV6_FI_PORT_USAGE_YV
- KV6_FI_PSU_HEALTH_SUMMARY_HV, KV6_FI_PSU_HEALTH_SUMMARY_DV, KV6_FI_PSU_HEALTH_SUMMARY_WV, KV6_FI_PSU_HEALTH_SUMMARY_MV, KV6_FI_PSU_HEALTH_SUMMARY_QV, KV6_FI_PSU_HEALTH_SUMMARY_YV
- KV6_FI_PSU_STATISTICS_HV, KV6_FI_PSU_STATISTICS_DV, KV6_FI_PSU_STATISTICS_WV, KV6_FI_PSU_STATISTICS_MV, KV6_FI_PSU_STATISTICS_QV, KV6_FI_PSU_STATISTICS_YV
- KV6_FI_SAN_ERROR_STATISTICS_HV, KV6_FI_SAN_ERROR_STATISTICS_DV, KV6_FI_SAN_ERROR_STATISTICS_WV, KV6_FI_SAN_ERROR_STATISTICS_MV, KV6_FI_SAN_ERROR_STATISTICS_QV, KV6_FI_SAN_ERROR_STATISTICS_YV
- KV6_FI_SAN_STATISTICS_HV, KV6_FI_SAN_STATISTICS_DV, KV6_FI_SAN_STATISTICS_WV, KV6_FI_SAN_STATISTICS_MV, KV6_FI_SAN_STATISTICS_QV, KV6_FI_SAN_STATISTICS_YV
- KV6_FI_SYSTEM_STATISTICS_HV, KV6_FI_SYSTEM_STATISTICS_DV, KV6_FI_SYSTEM_STATISTICS_WV, KV6_FI_SYSTEM_STATISTICS_MV, KV6_FI_SYSTEM_STATISTICS_QV, KV6_FI_SYSTEM_STATISTICS_YV
- KV6_MAC_POOL_DETAILS_HV, KV6_MAC_POOL_DETAILS_DV, KV6_MAC_POOL_DETAILS_WV, KV6_MAC_POOL_DETAILS_MV, KV6_MAC_POOL_DETAILS_QV, KV6_MAC_POOL_DETAILS_YV
- KV6_RM_SERVER_BIOS_FIRMWARE_HV, KV6_RM_SERVER_BIOS_FIRMWARE_DV, KV6_RM_SERVER_BIOS_FIRMWARE_WV, KV6_RM_SERVER_BIOS_FIRMWARE_MV, KV6_RM_SERVER_BIOS_FIRMWARE_QV, KV6_RM_SERVER_BIOS_FIRMWARE_YV
- KV6_RM_SERVER_FIRMWARE_HV, KV6_RM_SERVER_FIRMWARE_DV, KV6_RM_SERVER_FIRMWARE_WV, KV6_RM_SERVER_FIRMWARE_MV, KV6_RM_SERVER_FIRMWARE_QV, KV6_RM_SERVER_FIRMWARE_YV
- KV6_RM_SERVER_STORAGE_DISK_HV, KV6_RM_SERVER_STORAGE_DISK_DV, KV6_RM_SERVER_STORAGE_DISK_WV, KV6_RM_SERVER_STORAGE_DISK_MV, KV6_RM_SERVER_STORAGE_DISK_QV, KV6_RM_SERVER_STORAGE_DISK_YV
- KV6_RM_STORAGE_FIRMWARE_HV, KV6_RM_STORAGE_FIRMWARE_DV, KV6_RM_STORAGE_FIRMWARE_WV, KV6_RM_STORAGE_FIRMWARE_MV, KV6_RM_STORAGE_FIRMWARE_QV, KV6_RM_STORAGE_FIRMWARE_YV
- KV6_SAN_POOL_DETAILS_HV, KV6_SAN_POOL_DETAILS_DV, KV6_SAN_POOL_DETAILS_WV, KV6_SAN_POOL_DETAILS_MV, KV6_SAN_POOL_DETAILS_QV, KV6_SAN_POOL_DETAILS_YV
- KV6_SERVER_CPU_STATISTICS_HV, KV6_SERVER_CPU_STATISTICS_DV, KV6_SERVER_CPU_STATISTICS_WV, KV6_SERVER_CPU_STATISTICS_MV, KV6_SERVER_CPU_STATISTICS_QV, KV6_SERVER_CPU_STATISTICS_YV
- KV6_SERVER_ETHER_PORT_ERROR_HV, KV6_SERVER_ETHER_PORT_ERROR_DV, KV6_SERVER_ETHER_PORT_ERROR_WV, KV6_SERVER_ETHER_PORT_ERROR_MV, KV6_SERVER_ETHER_PORT_ERROR_QV, KV6_SERVER_ETHER_PORT_ERROR_YV
- KV6_SERVER_ETHER_PORT_LARGE_HV, KV6_SERVER_ETHER_PORT_LARGE_DV, KV6_SERVER_ETHER_PORT_LARGE_WV, KV6_SERVER_ETHER_PORT_LARGE_MV, KV6_SERVER_ETHER_PORT_LARGE_QV, KV6_SERVER_ETHER_PORT_LARGE_YV
- KV6_SERVER_ETHER_PORT_SMALL_HV, KV6_SERVER_ETHER_PORT_SMALL_DV, KV6_SERVER_ETHER_PORT_SMALL_WV, KV6_SERVER_ETHER_PORT_SMALL_MV, KV6_SERVER_ETHER_PORT_SMALL_QV, KV6_SERVER_ETHER_PORT_SMALL_YV
- KV6_SERVER_HEALTH_SUMMARY_HV, KV6_SERVER_HEALTH_SUMMARY_DV, KV6_SERVER_HEALTH_SUMMARY_WV, KV6_SERVER_HEALTH_SUMMARY_MV, KV6_SERVER_HEALTH_SUMMARY_QV, KV6_SERVER_HEALTH_SUMMARY_YV
- KV6_SERVER_POOL_DETAILS_HV, KV6_SERVER_POOL_DETAILS_DV, KV6_SERVER_POOL_DETAILS_WV, KV6_SERVER_POOL_DETAILS_MV, KV6_SERVER_POOL_DETAILS_QV, KV6_SERVER_POOL_DETAILS_YV

- KV6_SERVER_VNIC_STATISTICS_HV, KV6_SERVER_VNIC_STATISTICS_DV, KV6_SERVER_VNIC_STATISTICS_WV, KV6_SERVER_VNIC_STATISTICS_MV, KV6_SERVER_VNIC_STATISTICS_QV, KV6_SERVER_VNIC_STATISTICS_YV
- KV6_SERVICE_PROFILE_HEALTH_HV, KV6_SERVICE_PROFILE_HEALTH_DV, KV6_SERVICE_PROFILE_HEALTH_WV, KV6_SERVICE_PROFILE_HEALTH_MV, KV6_SERVICE_PROFILE_HEALTH_QV, KV6_SERVICE_PROFILE_HEALTH_YV
- KV6_THREAD_POOL_STATUS_HV, KV6_THREAD_POOL_STATUS_DV, KV6_THREAD_POOL_STATUS_WV, KV6_THREAD_POOL_STATUS_MV, KV6_THREAD_POOL_STATUS_QV, KV6_THREAD_POOL_STATUS_YV
- 4. Prepare the Tivoli Data Warehouse to support Cognos dimensions.

Preparing the Tivoli Data Warehouse for Tivoli Common Reporting includes creating the IBM_TRAM dimensions, which are required for running the Cognos reports and using the data models.

See "Manually creating and maintaining the dimension tables" in the *IBM Tivoli Monitoring Administrator's Guide, V6.3 Fix Pack 2* "Tivoli Common Reporting" chapter (http://www-01.ibm.com/ support/knowledgecenter/SSTFXA_6.3.0.2/com.ibm.itm.doc_6.3fp2/adminuse/ tcr_reports_dimension.htm?lang=en)

5. Connect to the Tivoli Data Warehouse by using the database client over Open Database Connectivity (ODBC).

Cognos uses ODBC to connect to the database. Install a database client on the Tivoli Common Reporting Server and connect it to the Tivoli Data Warehouse.

See "Connecting to the Tivoli Data Warehouse using the database client over ODBC" in the *IBM Tivoli Monitoring Administrator's Guide, V6.3 Fix Pack 2* "Tivoli Common Reporting" chapter (http://www-01.ibm.com/support/knowledgecenter/SSTFXA_6.3.0.2/com.ibm.itm.doc_6.3fp2/adminuse/tcr_tdwconnect.htm).

Important: All prerequisites described here must be met or the reports cannot run.

Importing and running Cognos reports

You must import the Cognos reports package containing the monitoring agent for Cisco UCS data model and reports into Tivoli Common Reporting. For more information, see "Importing and running IBM Cognos reports" in the *IBM Tivoli Monitoring Administrator's Guide*, *V6.3 Fix Pack 2* "Tivoli Common Reporting" chapter (http://www-01.ibm.com/support/knowledgecenter/SSTFXA_6.3.0.2/ com.ibm.itm.doc_6.3fp2/adminuse/tcr_reportsintro.htm?lang=en)

Cognos data models and reports

When all the prerequisites are met, you can use the Tivoli Integrated Portal interface to create, modify, and manage Cognos reports.

To create reports in Tivoli Common Reporting tool, you can use one of the following report authoring tools:

- Query Studio: A web-based product that is used mostly for ad hoc reporting. Users can create simple queries and reports, and apply basic formatting to the reports.
- Report Studio: A web-based tool that is used by technical users and professional report writers for creating advanced reports. Users can retrieve data from multiple databases and create sophisticated reports that have multiple pages and multiple queries.

Reports for the monitoring agent

You can verify whether the reporting functionality is installed and configured correctly by running the sample report for the monitoring agent for Cisco UCS. The monitoring agent for Cisco UCS reporting package that you imported into Tivoli Common Reporting includes eleven sample reports divided in three categories as follows:

- Prerequisite Checking report
- Operational Performance Trends reports
- Network Performance Trends reports

By using these reports, you can monitor the reporting activity and see what a typical Cognos report includes. These reports are available in the Common Reporting panel in Tivoli Common Reporting.

Prerequisite Checking report

This report provides a prerequisite scanner that verifies whether the Tivoli Data Warehouse contains the list of all tables and views needed to run the predefined reports, and those needed to support custom reporting. The reports also direct you to appropriate documentation that can be helpful in the following ways:

- · Enabling historical collection and summarization and pruning
- Creating the IBM_TRAM schema, the time dimension, and other shared dimensions, such as WEEKDAY LOOKUP and MONTH LOOKUP
- Populating the time dimension

The report also provides a list of attribute groups for the agent to guide you while enabling historical collection.

Note: Despite having all the prerequisite tables and views in the Tivoli Data Warehouse, you might not be able to run the reports due to insufficient data in the Warehouse. For example, you cannot run the reports if adequate time stamps are not generated for the time dimension. The help that is embedded in the Cognos reports will guide you to run the appropriate database scripts to populate the tables. However, before you run the prerequisite scanner reports, ensure that you have created and tested the appropriate database connection (DB2, Oracle, or MS SQL Server) to the Tivoli Data Warehouse.

The following table describe this report.

|--|

Report element	Description
Name	Cisco UCS Report Prerequisite Scanner
Description	This report runs on the DB2 or MS SQL Server or Oracle database to check whether all prerequisite tables and views are available on the Tivoli Data Warehouse.
Purpose	You can use this report to verify whether all the prerequisite tables and views required to run a predefined report or to create a custom report that is available on the Tivoli Data Warehouse.
Parameters	Database Type Select the required database type, such as DB2 or MS SQL Server or Oracle. Display Options Select the display option, such as Check all reports or Check a specific report. If you select the Check a specific report option, select the required report category. Reports Category Select the report category, such as Operational Performance Trends or Network Performance Trends. Reports Select the report for which you want to verify the prerequisite tables.

Table 2. Cisco UCS Report Prerequisite Scanner (continued)

Report element	Description
Output	The report lists all the prerequisite tables and views and displays a status against each of them.
	A red cross (x) indicates that the table or view requires to run some of the predefined reports and is missing on the Tivoli Data Warehouse.
	A yellow exclamation mark (!) indicates that the table or view is missing on the Tivoli Data Warehouse. The missing view does not affect the running of the predefined reports. However, ad hoc reporting on the attribute group is not possible. You are directed to the documentation to enable historical collection and summarization and pruning in either case.
	This report displays a table with the following two columns:
	• The first column lists the prerequisite tables and views from ITM for Cisco UCS agent in the Tivoli Data Warehouse.
	• The second column lists the prerequisite tables for Tivoli Common Reporting shared dimensions.

Operational Performance Trends reports

This set of reports shows operational usage over time for various levels of the Cisco UCS environment. The reports show trends at the chassis, blade server, fabric interconnect, fabric extender, and rack-mount server levels.

The following tables describe these reports.

Table 3. Cisco UCS Blade Server Performance report

Report element	Description
Name	Cisco UCS Blade Server Performance report
Description	This report displays the current, temperature, power, and voltage statistics of the blade server for a specified duration.
Purpose	You can use this report to view the current, temperature, power, and voltage statistics of the motherboard, the memory array unit, and the blade server CPU.

Table 3. Cisco UCS Blade Server Performance report (continued)

Report element	Description
Parameters	Report Period Date Range Select the report period from a predefined date range, such as Last Week, Current Month, Last 30 Days, and so on. You can also enter a start date, an end date, and the time for the reporting period.
	Start Date Select a start date from the calendar and the start time from the time widget. You must select both date and time.
	End Date Select an end date from the calendar and an end time from the time widget. You must select both date and time.
	Summarization Type Select the summarization types, such as Hourly, Daily, Weekly, Monthly, Quarterly, or Yearly from the list.
	Shift and Vacation Period Shift Period If shifts are enabled, the hourly table displays the shift period as 1 or 2, depending on the peak and off-peak hours that are configured in the data warehouse. The daily table consists of 1 and 2 corresponding to the peak and off-peak hours, and -1 corresponding to the summarized value for that day. If shifts are not enabled, then the default value is -1.
	Vacation Period If the vacation period is not enabled, the default value is -1. You can enter the value 1 or 2 if the vacation period is enabled.
	Display Options
	System Name Select the name of the system from the System Name list.
	Chassis Name Select the name of the chassis from the Chassis Name list.
	Blade Server Name Select the name of the blade server from the Blade Server Name list.
	Report Type Select the type of report from the Report Type list such as Blade Server Current Statistics, Blade Server Temperature Statistics, or Blade Server Power and Voltage Statistics.
Tables/Views Used	 KV6MBPOWST_DV KV6MBTEMST_DV KV6MEMTMPS_DV KV6_SERVER_CPU_STATISTICS_DV KV6MEMAICS_DV
Table 3. Cisco UCS Blade Server Performance report (continued)

Report element	Description
Output	The statistics in this report show information about the electrical current, temperature, power and voltage of the blade server. The Blade Server Current Statistics section displays the following line charts:
	• The Motherboard Current Statistics chart displays the average input current (in Amperes) of a blade server motherboard for the selected system and chassis.
	• The Memory Array Unit Current Statistics chart displays the average input current (in Amperes) of a blade server memory array unit for the selected system and chassis.
	• The CPU Current Statistics chart displays the average input current (in Amperes) of a blade server CPU for the selected system and chassis.
	The Blade Server Temperature Statistics section displays the following line charts:
	• The Motherboard Temperature Statistics chart displays the average temperature (in Celsius) of the front and rear sections of a blade server motherboard for the selected system and chassis.
	• The Memory Units Temperature Statistics chart displays the average DDR3 array temperature (in Celsius) of a blade server memory unit for the selected system and chassis.
	• The CPU Temperature Statistics chart displays the average temperature (in Celsius) of a blade server CPU for the selected system and chassis.
	The Blade Server Power and Voltage Statistics section displays the following line charts:
	• The Motherboard Power Statistics chart displays the average consumed power (in Watt) by a blade server motherboard for the selected system and chassis.
	• The Motherboard Voltage Statistics chart displays the average input voltage (in Volts) of a blade server motherboard for the selected system and chassis.
	The information in each line chart is also displayed in a tabular format.

Table 4. Cisco UCS Chassis Performance report

Report element	Description
Name	Cisco UCS Chassis Performance report
Description	This report displays the health, temperature, current, power, and voltage statistics of the chassis for a specified duration.
Purpose	You can use this report to view the health, temperature, current, power and voltage details of the chassis, such as slot utilization, fan status, I/O module temperature, fan module temperature, and PSU temperature.

Table 4. Cisco UCS Chassis Performance report (continued)

Report element	Description
Parameters	Report Period Date Range Select the report period from a predefined date range, such as Last Week, Current Month, Last 30 Days, and so on. You can also enter a start date, an end date, and the time for the reporting period. Start Date Select a start date from the calendar and the start time from the time widget. You must select both date and time. End Date
	Select an end date from the calendar and an end time from the time widget. You must select both date and time.
	Summarization Type Select the summarization types, such as Hourly, Daily, Weekly, Monthly, Quarterly, or Yearly from the list.
	Shift and Vacation Period Shift Period If shifts are enabled, the hourly table displays the shift period as 1 or 2, depending on the peak and off-peak hours that are configured in the data warehouse. The daily table consists of 1 and 2 corresponding to the peak and off-peak hours, and -1 corresponding to the summarized value for that day. If shifts are not enabled, then the default value is -1.
	Vacation Period If the vacation period is not enabled, the default value is -1. You can enter the value 1 or 2 if the vacation period is enabled.
	Display Options
	System Name Select the name of the system from the System Name list.
	Chassis Name Select the name of the chassis from the Chassis Name list.
	Report Type Select the type of report from the Report Type list such as Chassis Health Summary, Chassis Temperature Statistics, Chassis Power Statistics, or Chassis Current and Voltage Statistics.
Tables/Views Used	 KV6_CHASSIS_HEALTH_SUMMARY_DV KV6IOMDTEM_DV KV6FNMDLSM_DV KV6_CHASSIS_PSU_STATISTICS_DV KV6CHPOWER_DV

Table 4. Cisco UCS Chassis Performance report (continued)

Report element	Description
Output	The statistics in this report show information about the health, temperature, current, power and voltage of the chassis. The Chassis Health Summary section displays the following bar charts:
	• The Chassis Slot Utilization chart displays the average number of occupied and free chassis slots for the selected system.
	• The Chassis Fan Active Status chart displays the average number of active and faulty chassis fans for the selected system. The information in this bar chart is also displayed in the tabular format.
	The Chassis Current and Voltage Statistics section displays the following line charts:
	• The PSU Current Statistics chart displays the average output current (in Amperes) of the chassis PSU for the selected system.
	• The average input, output12V, and output3V3 voltage (in Volts) of PSU for the selected chassis and the selected system.
	The Chassis Temperature Statistics section displays the following line charts:
	 The I/O Module Temperature Statistics chart displays the average ambient and ASIC temperatures (in Celsius) of the chassis I/O module for the selected system.
	• The Fan Module Temperature Statistics chart displays the average exhaust temperature (in Celsius) of the chassis fan module for the selected system.
	• The PSU Temperature Statistics chart displays the average internal temperature (in Celsius) of the chassis PSU for the selected system.
	The Chassis Power Statistics section displays the following line charts:
	• The average input, output and total consumed power (in Watt) of the chassis for the selected system.
	• The average output power (in Watt) of PSU for the selected chassis and the selected system.
	The information in each line chart and bar chart is also displayed in a tabular format.

Table 5. Cisco UCS Fabric Extender Performance report

Report element	Description
Name	Cisco UCS Fabric Extender Performance report
Description	This report displays temperature, current, power, and voltage statistics of the fabric extender within a specified duration.
Purpose	You can use this report to view the current, voltage, power statistics of PSU and temperature statistics of I/O module of the fabric extender.

Table 5. Cisco UCS Fabric Extender Performance report (continued)

Report element	Description
Parameters	Report Period Date Range
	Select the report period from a predefined date range, such as Last Week, Current Month, Last 30 Days, and so on. You can also enter a start date, an end date, and the time for the reporting period.
	Start Date Select a start date from the calendar and the start time from the time widget. You must select both date and time.
	End Date Select an end date from the calendar and an end time from the time widget. You must select both date and time.
	Summarization Type Select the summarization types, such as Hourly, Daily, Weekly, Monthly, Quarterly, or Yearly from the list.
	Shift and Vacation Period Shift Period If shifts are enabled, the hourly table displays the shift period as 1 or 2, depending on the peak and off-peak hours that are configured in the data warehouse. The daily table consists of 1 and 2 corresponding to the peak and off-peak hours, and -1 corresponding to the summarized value for that day. If shifts are not enabled, then the default value is -1.
	Vacation Period If the vacation period is not enabled, the default value is -1. You can enter the value 1 or 2 if the vacation period is enabled.
	Display Options
	System Name Select the name of the system from the System Name list.
	Fabric Extender Name Select the name of the fabric extender from the Fabric Extender Name list.
Tables/Views Used	 KV6FEXENVR_DV KV6FPSUENV_DV KV6FIOMDTE_DV
Output	This report displays the following bar charts:
	• The PSU Current Statistics chart displays the average current (in Ampere) of the PSU for the selected fabric extender.
	• The PSU Voltage Statistics chart displays the average voltage (in Volts) of the PSU for the selected fabric extender.
	• The PSU Power Statistics chart displays the average power (in Watt) of the PSU for the selected fabric extender.
	• The Fabric Extender Temperature Statistics chart displays the average temperatures (in Celsius) of the fabric extender fan controller inlets, main board outlets, and die for the selected system.
	• The I/O Module Temperature Statistics chart displays the average ASIC temperature and average ambient temperature (in Celsius) of the I/O module for the selected fabric extender.
	The information in the fabric extender temperature statistics bar charts is also displayed in a tabular format.

Report element	Description
Name	Cisco UCS Fabric Interconnect Performance report
Description	This report displays load, memory, temperature, current, power, and voltage statistics of the fabric interconnect within a specified duration.
Purpose	You can use this report to analyze the load, memory, temperature, current, power, and voltage statistics of the fabric interconnect and PSU.
Parameters	 Report Period Date Range Select the report period from a predefined date range, such as Last Week, Current Month, Last 30 Days, and so on. You can also enter a start date, an end date, and the time for the reporting period. Start Date Select a start date from the calendar and the start time from the time widget. You must select both date and time. End Date Select an end date from the calendar and an end time from the time widget. You must select both date and time. Summarization Type Select the summarization types, such as Hourly, Daily, Weekly, Monthly, Quarterly, or Yearly. Shift and Vacation Period If shifts are enabled, the hourly table displays the shift period as 1 or 2, depending on the peak and off-peak hours that are configured in the data warehouse. The daily table consists of 1 and 2 corresponding to the peak and off-peak hours, and -1 corresponding to the summarized value for that day. If shifts are not enabled, then the default value is -1. Vacation Period If the vacation period is not enabled, the default value is -1. You can enter the value 1 or 2 if the vacation period is enabled. Display Options System Name Select the name of the system from the System Name list. Report Type Select the type of report from the Report Type list such as Fabric Interconnect Statistics, or Fabric Interconnect PSU Statistics.
Tables/Views Used	 KV6_FI_SYSTEM_STATISTICS_DV KV6FITMPST_DV KV6PSUSTA_DV

Table 6. Cisco UCS Fabric Interconnect Performance report

Table 6. Cisco UCS Fabric Interconnect Performance report (continued)

Report element	Description
Output	This report displays the following bar charts:
	• The Fabric Interconnect Load Statistics chart displays the average load on the fabric interconnect for the selected system.
	• The Fabric Interconnect Memory Statistics chart displays the average available memory and the cache memory (in MB) of the fabric interconnect for the selected system.
	• The Fabric Interconnect Temperature Statistics chart displays the average temperatures (in Celsius) of the fabric interconnect fan controller inlets, main board outlets, and PSU controller inlets for the selected system.
	The Fabric Interconnect PSU Statistics section displays the following line charts:
	• The Fabric Interconnect PSU Current Statistics chart displays the average current (in Amperes) of PSU for the selected fabric interconnect.
	• The Fabric Interconnect PSU Power Statistics chart displays the average power (in Watt) of PSU for the selected fabric interconnect.
	• The Fabric Interconnect PSU Voltage Statistics chart displays the average voltage (in Amperes) of PSU for the selected fabric interconnect.
	The information in the fabric interconnect load statistics and fabric interconnect memory statistics bar charts is also displayed in a tabular format.

Table 7. Cisco UCS Rack Mount Server Performance report

Report element	Description
Name	Cisco UCS Rack Mount Server Performance report
Description	This report displays temperature, current, power, and voltage statistics of the rack-mount server within a specified duration.
Purpose	You can use this report to view the current, temperature, power and voltage statistics of the motherboard, the memory array unit, PSU, and the rack-mount server CPU.

Report element	Description
Parameters	Report Period Date Range Select the report period from a predefined date range, such as Last Week, Current Month, Last 30 Days, and so on. You can also enter a start date, an end date, and the time for the reporting period.
	Start Date Select a start date from the calendar and the start time from the time widget. You must select both date and time.
	End Date Select an end date from the calendar and an end time from the time widget. You must select both date and time.
	Summarization Type Select the summarization types, such as Hourly, Daily, Weekly, Monthly, Quarterly, or Yearly from the list.
	Shift and Vacation Period Shift Period If shifts are enabled, the hourly table displays the shift period as 1 or 2, depending on the peak and off-peak hours that are configured in the data warehouse. The daily table consists of 1 and 2 corresponding to the peak and off-peak hours, and -1 corresponding to the summarized value for that day. If shifts are not enabled, then the default value is -1.
	Vacation Period If the vacation period is not enabled, the default value is -1. You can enter the value 1 or 2 if the vacation period is enabled.
	Display Options
	System Name Select the name of the system from the System Name list.
	Rack Mount Server Name Select the name of the rack-mount server from the Rack Mount Server Name list.
	Report Type Select the type of report from the Report Type list such as Rack Mount Server Current Statistics, Rack Mount Server Temperature Statistics, Rack Mount Server Power Statistics, or Rack Mount Server Voltage Statistics.
Tables/Views Used	 KV6RMMOTHB_DV KV6RMMOHTE_DV KV6RMUNITE_DV KV6RMCPUEN_DV KV6RMMEMUN_DV KV6RMPSUST_DV

Table 7. Cisco UCS Rack Mount Server Performance report (continued)

Table 7. Cisco UCS Rack Mount Server Performance report (continued)

Report element	Description
Output	The statistics in this report show the information about the electrical current, temperature, power, and voltage statistics of the rack-mount server. The Rack Mount Server Current Statistics section displays the following line charts:
	• The Motherboard Current Statistics chart displays the average input current (in Amperes) of a rack-mount server motherboard for the selected system and rack-mount server.
	• The Memory Array Unit Current Statistics chart displays the average input current (in Amperes) of a rack-mount server memory array unit for the selected system and rack-mount server.
	• The CPU Current Statistics chart displays the average input current (in Amperes) of a rack-mount server CPU for the selected system and rack-mount server.
	• The PSU Current Statistics chart displays the average output current (in Amperes) of a rack-mount server PSU for the selected system and rack-mount server.
	The Rack Mount Server Temperature Statistics section displays the following line charts:
	• The Motherboard Temperature Statistics chart displays the average temperatures (in Celsius) for the ambient temperature, front temperature, IO Hub 1 temperature, IO Hub 2 temperature, and rear temperature of a rack-mount server motherboard for the selected system and rack mount server.
	• The Memory Unit Temperature Statistics chart displays the average temperature (in Celsius) of a rack-mount server memory unit for the selected system and rack-mount server.
	• The CPU Temperature Statistics chart displays the average temperature (in Celsius) of a rack-mount server CPU for the selected system and rack-mount server.
	• The PSU Temperature Statistics chart displays the average ambient temperature (in Celsius) of a rack-mount server CPU for the selected system and rack-mount server.
	The Rack Mount Server Power Statistics section displays the following line charts:
	• The Motherboard Power Statistics chart displays the average consumed power (in Watt) of a rack-mount server motherboard for the selected system and rack-mount server.
	• The PSU Power Statistics chart displays the average input and output power (in Watt) of a rack-mount server PSU for the selected system and rack mount server.
	The Rack Mount Server Voltage Statistics section displays the following line charts:
	• The Motherboard Voltage Statistics chart displays the average input voltage (in Volts) of a rack-mount server motherboard for the selected system and rack-mount server.
	• The PSU Voltage Statistics chart displays the average input and output voltage (in Watt) of a rack-mount server PSU for the selected system and rack-mount server.
	The information in each line chart is also displayed in a tabular format.

Network Performance Trends reports

This set of reports shows network usage over time for various levels of the Cisco UCS environment. The reports show trends at the chassis, blade server, fabric interconnect, fabric extender, and rack-mount server levels.

The following tables describe these reports.

Table 8. Cisco UCS Blade Server Network Performance report

Report element	Description
Name	Cisco UCS Blade Server Network Performance report
Description	This report displays the NIC, DCE interface, vNIC, and HBA statistics of the blade server for a specified duration.

Report element	Description
Purpose	You can use this report to view error, packet and communication statistics for NIC and DCE interface and bytes, packet and error statistics for vNIC and HBA of the selected blade server.
Parameters	Report Period Date Range Select the report period from a predefined date range, such as Last Week, Current Month, Last 30 Days, and so on. You can also enter a start date, an end date, and the time for the reporting period.
	Start Date Select a start date from the calendar and the start time from the time widget. You must select both date and time.
	End Date Select an end date from the calendar and an end time from the time widget. You must select both date and time.
	Summarization Type Select the summarization types, such as Hourly, Daily, Weekly, Monthly, Quarterly, or Yearly from the list.
	Shift and Vacation Period Shift Period If shifts are enabled, the hourly table displays the shift period as 1 or 2, depending on the peak and off-peak hours that are configured in the data warehouse. The daily table consists of 1 and 2 corresponding to the peak and off-peak hours, and -1 corresponding to the summarized value for that day. If shifts are not enabled, then the default value is -1.
	Vacation Period If the vacation period is not enabled, the default value is -1. You can enter the value 1 or 2 if the vacation period is enabled.
	Display Options
	Report Type Select the type of report from the Report Type list such as Blade Server NIC Statistics, Blade Server DCE Interface Statistics, Blade Server vNIC Statistics, or Blade Server HBA Statistics.
	System Name Select the name of the system from the System Name list.
	Chassis Name Select the name of the chassis from the Chassis Name list. You can select multiple chassis from the list.
	Blade Server Name Select the name of the blade server from the Blade Server Name list. You can select multiple blade servers from the list.
	Adapter Name Select the name of the adapter from the Adapter Name list. You can select multiple adapters from the list.
	Card Name Select the name of the card from the NIC Card Name list. You can select multiple cards from the list.
	Select the distinguished name of the vNIC card from the vNIC Card DN list. You can select multiple cards from the list.

Table 8. Cisco UCS Blade Server Network Performance report (continued)

Report element	Description
Tables/Views Used	 KV6_SERVER_ETHER_PORT_ERROR_DV KV6BSETPCM_DV KV6BSETPPS_DV KV6_SERVER_VNIC_STATISTICS_DV
Output	 The statistics in this report show information about the Ether Port Error (Rx), Ether Port Communication (Rx/Tx), and Ether Port Packet (Rx/Tx) for NIC, DCE interface, vNIC, and HBA statistics of the blade server. The Blade Server NIC and DCE Interface Statistics section displays the following bar charts: The Ether Port Error Statistics chart displays the error statistics (Rx) due to bad CRC, bad length, and MAC discarded for the selected card and the blade server. The Ether Port Communication (Rx) Statistics chart displays the communication statistics (Rx) of unicasted, multicasted, and broadcasted packets for the selected card and the blade server. The Ether Port Communication (Tx) Statistics chart displays the communication Statistics (Tx) of unicasted, multicasted, and broadcasted packets for the selected card and the blade server. The Ether Port Communication (Tx) Statistics chart displays the communication Statistics (Tx) of unicasted, multicasted, and broadcasted packets for the selected card and the blade server. The Ether Port Packet (Rx) Statistics chart displays the received packet statistics (Good/Pause/Per Priority/PPP/VLAN Packets) for the selected card and the blade server. The Ether Port Packet (Tx) Statistics chart displays the Received Packet Statistics (Good/Pause/Per Priority/PPP/VLAN Packets) for the selected card and the blade server. The Blade Server vNIC and HBA Statistics section displays the following line charts: The vNIC/HBA Bytes (Tx) Statistics chart displays the Bytes Tx, Dropped Tx for the selected card and the blade server. The vNIC/HBA Packets (Rx and Tx) Statistics chart displays the Error Rx and Error Tx for the selected card and the blade server.
	The information in each line chart is also displayed in a tabular format.

Table 8. Cisco UCS Blade Server Network Performance report (continued)

Table 9. Cisco UCS Chassis Network Performance report

Report element	Description
Name	Cisco UCS Chassis Network Performance report
Description	This report displays the backplane port network statistics of the chassis for a specified duration.
Purpose	You can use this report to view the details of the backplane port packet statistics, backplane port error, loss and pause statistics for the selected chassis.

Report element	Description
Parameters	Report Period Date Range Select the report period from a predefined date range, such as Last Week, Current Month, Last 30 Days, and so on. You can also enter a start date, an end date, and the time for the reporting period. Start Date Select a start date from the calendar and the start time from the time widget. You must select both date and time. End Date
	Select an end date from the calendar and an end time from the time widget. You must select both date and time. Summarization Type Select the summarization types, such as Hourly, Daily, Weekly, Monthly, Quarterly, or
	Shift and Vacation Period Shift Period If shifts are enabled, the hourly table displays the shift period as 1 or 2, depending on the peak and off-peak hours that are configured in the data warehouse. The daily table consists of 1 and 2 corresponding to the peak and off-peak hours, and -1 corresponding to the summarized value for that day. If shifts are not enabled, then the default value is -1.
	Vacation Period If the vacation period is not enabled, the default value is -1. You can enter the value 1 or 2 if the vacation period is enabled.
	Display Options
	System Name Select the name of the system from the System Name list.
	Chassis Name Select the name of the chassis from the Chassis Name list.
	IO Module Name Select the name of the I/O module from the IO Module Name list.
	Backplane Port DN Select the distinguished name of the backplane port from the Backplane Port DN list.
Tables/Views Used	 KV6BNTSTAT_DV KV6CHBKERS_DV KV6CHBKLOS_DV KV6CHBKPSE_DV

Table 9. Cisco UCS Chassis Network Performance report (continued)

Table 9. Cisco UCS Chassis Network Performance report (continued)

Report element	Description
Output	The statistics in this report displays the following bar charts:
	• The Backplane Port Packet Statistics (Rx) chart displays the Broadcast Packets, Jumbo Packets, Multicast Packets, Unicast Packets Received on the selected backplane port and chassis for the selected system.
	• The Backplane Port Packet Statistics (Tx) chart displays the Broadcast Packets, Jumbo Packets, Multicast Packets, Unicast Packets Transmitted on the selected backplane port and chassis for the selected system
	• The Backplane Port Error (Rx) Statistics chart displays the Align, FCS, Internal MAC Rx, OutDiscard, and Received Error statistics on the selected backplane port and chassis for the selected system.
	• The Backplane Port Error (Tx) Statistics chart displays the Deferred Tx, Internal MAC Tx, Under Size, and Xmit Error statistics on the selected backplane port and chassis for the selected system.
	• The Backplane Port LAN Loss Statistics chart displays the SQE Test, Carrier Sense, Excess Collision, Giant, Late Collision, Multi Collision, Single Collision, Symbol Statistics on the selected backplane port and chassis for the selected system.
	• The Backplane Port LAN Pause Statistics chart displays the Received Pause, Resets, Xmit Pause statistics on the selected backplane port and chassis for the selected system.
	The information in each line chart and bar chart is also displayed in a tabular format.

Table 10. Cisco UCS Fabric Extender Network Performance report

Report element	Description
Name	Cisco UCS Fabric Extender Network Performance report
Description	This report displays the backplane port network statistics of the fabric extender for a specified duration.
Purpose	You can use this report to view the details of the backplane port packet statistics, backplane port error, loss and pause statistics for the selected fabric extender.

Report element	Description
Parameters	Report Period Date Range Select the report period from a predefined date range, such as Last Week, Current Month, Last 30 Days, and so on. You can also enter a start date, an end date, and the time for the reporting period. Start Date Select a start date from the calendar and the start time from the time widget. You must select both date and time. End Date Select an end date from the calendar and an end time from the time widget. You must select both date and time.
	Summarization Type Select the summarization types, such as Hourly, Daily, Weekly, Monthly, Quarterly, or Yearly from the list.
	Shift and Vacation Period Shift Period If shifts are enabled, the hourly table displays the shift period as 1 or 2, depending on the peak and off-peak hours that are configured in the data warehouse. The daily table consists of 1 and 2 corresponding to the peak and off-peak hours, and -1 corresponding to the summarized value for that day. If shifts are not enabled, then the default value is -1.
	Vacation Period If the vacation period is not enabled, the default value is -1. You can enter the value 1 or 2 if the vacation period is enabled.
	Display Options
	System Name Select the name of the system from the System Name list.
	Fabric Extender Name Select the name of the fabric extender from the Fabric Extender Name list.
	IO Module Name Select the name of the I/O module from the IO Module Name list.
	Backplane Port Name Select the name of the backplane port from the Backplane Port list.
Tables/Views Used	 KV6FEXBCKS_DV KV6FXBKERS_DV KV6FXBKPSE_DV KV6_FEX_BACKPLANE_PORT_LOSS_DV

Table 10. Cisco UCS Fabric Extender Network Performance report (continued)

Table 10. Cisco UCS Fabric Extender Network Performance report (continued)

Report element	Description
Output	The statistics in this report displays the following bar charts:
	• The Backplane Port Packet Statistics (Rx) chart displays the Broadcast Packets, Jumbo Packets, Multicast Packets, Total Packets, Unicast Packets Received on the selected backplane port and fabric extender for the selected system.
	• The Backplane Port Packet Statistics (Tx) chart displays the Broadcast Packets, Jumbo Packets, Multicast Packets, Total Packets, Unicast Packets Transmitted on the selected backplane port and fabric extender for the selected system.
	• The Backplane Port Error Statistics (Rx) chart displays the Align, FCS, INT MAC Rx, OutDiscard and Received Error statistics on the selected backplane port and fabric extender for the selected system.
	• The Backplane Port Error Statistics (Tx) chart displays the Deferred Tx,, Int MAC Tx, Under Size and Xmit Error statistics on the selected backplane port and fabric extender for the selected system.
	• The Backplane Port Loss Statistics chart displays the SQE Test, Carrier Sense, Excess Collision, Giant, Late Collision, Multi Collision, Single Collision, Symbol Statistics on the selected backplane port and fabric extender for the selected system.
	• The Backplane Port Pause Statistics chart displays the Received Pause, Resets, Xmit Pause statistics on the selected backplane port and fabric extender for the selected system.
	The information in each line chart and bar chart is also displayed in a tabular format.

Table 11. Cisco UCS Fabric Interconnect Network Performance report

Report element	Description
Name	Cisco UCS Fabric Interconnect Network Performance report
Description	This report displays the LAN and SAN statistics of the fabric interconnect for a specified duration.
Purpose	You can use this report to view the details of the Ether port's packet, error, loss and pause statistics and FC port's packet, error and bytes statistics for the selected fabric interconnect.

ch as Last Week, ter a start date, an om the time widget. m the time widget.
om the time widget. m the time widget.
m the time widget.
nthly, Quarterly, or
eriod as 1 or 2, gured in the data ling to the peak and value for that day. If
-1. You can enter the
Interconnect Name
me list.
s fabric interconnect
r rr r

Table 11. Cisco UCS Fabric Interconnect Network Performance report (continued)

Table 11. Cisco UCS Fabric Interconnect Network Performance report (continued)

Report element	Description
Output	The Fabric Interconnect LAN Statistics report displays the following bar charts:
	• The LAN Statistics (Rx) chart displays the Broadcast Packets, Jumbo Packets, Multicast Packets, Unicast Packets Received on the selected port and FI for the selected system.
	• The LAN Statistics (Tx) chart displays the Broadcast Packets, Jumbo Packets, Multicast Packets, Unicast Packets Transmitted on the selected port and FI for the selected system.
	• The LAN Error Statistics (Rx) chart displays the Align, FCS, Internal MAC Rx, OutDiscard and Received Error statistics on the selected port and FI for the selected system.
	• The LAN Error Statistics (Tx) chart displays the Deferred Tx, Internal MAC Tx, Under Size and Xmit Error statistics on the selected port and FI for the selected system.
	• The LAN Loss Statistics chart displays the SQE Test, Carrier Sense, Excess Collision, Giant, Late Collision, Multi Collision, Single Collision, Symbol Statistics on the selected port and FI for the selected system.
	• The LAN Pause Statistics chart displays the Received Pause, Resets, Xmit Pause statistics on the selected port and FI for the selected system.
	The Fabric Interconnect SAN Statistics report displays the following bar charts:
	• The SAN Statistics (Bytes) chart displays the Bytes Rx and Bytes Tx on the selected port and FI for the selected system.
	• The SAN Statistics (Packets) chart displays the Packets Rx and Packets Tx on the selected port and FI for the selected system.
	• The SAN Error Statistics chart displays the CRC Rx (Errors), Discard Rx (Errors), Discard Tx (Errors), Link Failures (Errors), Rx (Errors), Signal Losses (Errors), Sync Losses (Errors), Too Long Rx (Errors), Too Short Rx (Errors), Tx (Errors) statistics on the selected port and FI for the selected system.
	The information in each line chart and bar chart is also displayed in a tabular format.

Table 12. Cisco UCS Rack Mount Server Network Performance report

Report element	Description
Name	Cisco UCS Rack Mount Server Network Performance report
Description	This report displays the NIC, DCE interface, vNIC, and HBA statistics of the rack-mount server for a specified duration.
Purpose	You can use this report to view the error, packet and communication statistics for NIC and DCE interface and bytes, packet and error statistics for vNIC and HBA of the selected rack-mount server.
Parameters	Report Period Date Range Select the report period from a predefined date range, such as Last Week, Current Month, Last 30 Days, and so on. You can also enter a start date, an end date, and the time for the reporting period. Start Date Select a start date from the calendar and the start time from the time widget. You must select both date and time. End Date Select an end date from the calendar and an end time from the time widget. You must select both date and time. Summarization Type Select the summarization types, such as Hourly, Daily, Weekly, Monthly, Quarterly, or Yearly from the list.

Report element	Description
Parameters	Shift and Vacation Period Shift Period If shifts are enabled, the hourly table displays the shift period as 1 or 2, depending on the peak and off-peak hours that are configured in the data warehouse. The daily table consists of 1 and 2 corresponding to the peak and off-peak hours, and -1 corresponding to the summarized value for that day. If shifts are not enabled, then the default value is -1.
	Vacation Period If the vacation period is not enabled, the default value is -1. You can enter the value 1 or 2 if the vacation period is enabled.
	Display Options
	Report Type Select the type of report from the Report Type list such as rack-mount server NIC statistics, rack-mount server vNIC statistics, rack-mount server DCE interface statistics, or rack-mount server HBA statistics.
System N Rack Mo Adapter Card Na	System Name Select the name of the system from the System Name list.
	Rack Mount Server Name Select the name of the rack-mount server within the selected system from the Rack Mount Server Name list.
	Adapter Server Name Select the name of the adapter within the selected rack-mount server from the Adapter Name list.
	Card Name Select the name of the card within the selected adapter from the Card Name list.
Tables/Views	• KV6RMETPER_DV
Useu	• KV6RMETPCM_DV
	KV6RMETPPS_DV
	• KV6RMVNICS_DV

Table 12. Cisco UCS Rack Mount Server Network Performance report (continued)

Table 12. Cisco UCS Rack Mount Server Network Performance report (continued)

Report element	Description
Output	The Rack Mount Server NIC and DCE Interface Statistics report displays the following bar charts:
	• The Ether Port Error Statistics chart displays the error statistics (Rx) due to Bad CRC, bad length & MAC Discarded on a selected card and rack-mount server.
	• The Ether Port Communication (Rx) Statistics chart displays the communication statistics (Rx) of Unicasted, Multicasted and Broadcasted packets on a selected card and rack-mount server.
	• The Ether Port Communication (Tx) Statistics chart displays the communication statistics (Tx) of Unicasted, Multicasted and Broadcasted packets on a selected card and rack-mount server.
	• The Ether Port Packet Statistics (Rx) chart displays the received packet statistics (Good/Pause/Per Priority/PPP/VLAN Packets) on a selected card and rack-mount server.
	• The Ether Port Packet Statistics (Tx) chart displays the transmitted packet statistics (Good/Pause/Per Priority/PPP/VLAN Packets) on a selected card and rack-mount server.
	The rack-mount server vNIC and HBA Statistics report displays the following bar charts:
	• The vNIC/HBA Bytes (Rx) Statistics chart displays the Bytes Rx, Dropped Rx on a selected card and rack-mount server.
	• The vNIC/HBA Bytes (Tx) Statistics chart displays the Bytes Tx, Dropped Tx on a selected card and rack-mount server.
	• The vNIC/HBA Error (Rx and Tx) Statistics chart displays the Error Rx and Error Tx on a selected card and rack-mount server.
	• The vNIC/HBA Packets (Rx and Tx) Statistics chart displays the Packets Rx and Packets Tx on a selected card and rack-mount server.
	The information in each line chart and bar chart is also displayed in a tabular format.

Using the Cognos data model

The historical data collected by the Cisco UCS agent can be used in Tivoli Common Reporting for building ad hoc reports and queries. A Cognos data model that is ready to use is provided to enable this function.

The Cisco UCS agent data model is part of the IBM Tivoli Monitoring for Cisco UCS Reports V7.2 package. The data model is located under IBM Tivoli Monitoring for Cisco UCS Reports in the Data Navigation tree of the Query and Report Studio. The data model is a layer built on top of the Tivoli Data Warehouse to make the data more usable. The data model contains predefined relationships so that when you drag elements across different tables and views, they are joined so you do not have to manually write SQL code.

After importing the package in Tivoli Common Reporting, click **Launch** > **Query Studio** from the **TCR** menu, and select **IBM Tivoli Monitoring for Cisco UCS Reports**. The Query Studio is a web-based ad hoc query tool that you can use to build quick tables and charts.

Cognos data models are virtual star schema models separated into facts and dimensions. Facts are measurable quantities that can be aggregated, such as Chassis slot utilization and number of faults. Dimensions are the main identifiers by which facts can be grouped, aggregated, and organized. For example, Time and NODE are dimensions by which the fact % Slot Utilization can be grouped.

The data model contains the TRAM Shared Dimensions (TRAM stands for Tivoli Reporting and Analytics Model), which are shared across Tivoli by products such as **Time**. The facts in the data model are organized under folders by their summarization type, such as Daily and Hourly. When you expand **Daily** and **Hourly**, you can see the attribute groups.

Each attribute group corresponds to a table or view in the data warehouse. Each attribute group contains a group of facts or measures, such as % Slot Utilization (Minimum) and % Slot Utilization (Average), and some identifiers, such as NODE, and shift and vacation periods. By using the various controls in Query Studio, you can build a report in minutes. To build a report, you must drag the elements in the following order:

- 1. Drag one of the IBM Tivoli Monitoring for Cisco UCS Dimensions, such as **KV6 CHASSIS HEALTH SUMMARY Daily > NODE**.
- 2. Drag any metric from a related attribute group. For example, if you want to view the chassis-related metrics, drag data from the attribute groups whose names start with KV6 CHASSIS. For fabric interconnects, drag data from the attribute groups whose names start with KV6 FI. For blade servers, drag data from the attribute groups whose names start with KV6 SERVER.
- **3.** Drag the **Standard Timestamp** from **TRAM Shared Dimensions** > **Time Dimension**. For daily data, you can use **Date** instead of **Standard Timestamp**. You can use any of the other time metrics to organize the data.

To edit the data model, use the Cognos Framework Manager, which is available with Tivoli Common Reporting. You can manipulate the data in many ways. For example, you can

- Create charts from the table.
- Drag metrics from any of the attribute groups and combine them in one table or chart.
- Combine data from the KV6 CHASSIS and KV6 SERVER attribute groups. For more information on how to use Query Studio, see the Cognos Query Studio User Guide, which you can browse by using the Help section in Query Studio.

After you have the desired output, you can

- Save the report and use it like any other report.
- Run the report and view it in different formats, such as PDF and Excel.
- Schedule and email the report.

Chapter 9. Troubleshooting

Problems can be related to IBM Tivoli Monitoring or the specific agent that you are using.

For general troubleshooting information, see the *IBM Tivoli Monitoring Troubleshooting Guide*. For other problem-solving options, see "Support information" on page 649.

You can resolve some problems by ensuring that your system matches the system requirements listed in the Prerequisites topic for the agent in the information center, or in the "Requirements" on page 7 topic of the agent user's guide.

The following activities can help you find a solution to the problem you are having:

- "Gathering product information for IBM Software Support"
- "Using logging" on page 624
- "Consulting the lists of identified problems and workarounds" on page 624

Gathering product information for IBM Software Support

Before contacting IBM Software Support about a problem you are experiencing with this product, gather the information shown in Table 13.

Information type	Description
Log files	Collect trace log files from failing systems. Most logs are located in a logs subdirectory on the host computer. See "Principal trace log files" on page 625 for lists of all trace log files and their locations. For general information about the IBM Tivoli Monitoring environment, see the <i>Tivoli Enterprise Portal User's Guide</i> .
Cisco UCS information	Version number and patch level
Operating system	Operating system version number and patch level
Messages	Messages and other information displayed on the screen
Version numbers for IBM Tivoli Monitoring	 Version number of the following members of the monitoring environment: IBM Tivoli Monitoring. Also provide the patch level, if available. IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS
Screen captures	Screen captures of incorrect output, if any
(UNIX systems only) Core dump files	If the system stops on UNIX systems, collect the core dump file from the <i>install_dir/bin</i> directory, where <i>install_dir</i> is the directory where you installed the monitoring agent.

Table 13. Information to gather before contacting IBM Software Support

You can use the pdcollect tool to collect the most commonly used information from a system. This tool gathers log files, configuration information, version information, and other data. For more information about using this tool, see "pdcollect tool" in the *IBM Tivoli Monitoring Troubleshooting Guide*.

For information about working with IBM Software Support, see IBM Support Portal Service Requests and PMRs (http://www.ibm.com/support/entry/portal/Open_service_request/Software/Software_support_(general)).

Using logging

Logging is the primary troubleshooting feature in the Cisco UCS agent. *Logging* refers to the text messages and trace data that is generated by the Cisco UCS agent. Messages and trace data are sent to a file.

Trace data captures transient information about the current operating environment when a component or application fails to operate as designed. IBM Software Support personnel use the captured trace information to determine the source of an error or unexpected condition. See "Trace logging" for more information.

Consulting the lists of identified problems and workarounds

Known problems are organized into types such as those in the following list to make them easier to locate:

- Installation and configuration
- General usage and operation
- Display of monitoring data
- Take Action commands

Information about symptoms and detailed workarounds for these types of problems is located in "Problems and workarounds" on page 634.

For general troubleshooting information, see the IBM Tivoli Monitoring Troubleshooting Guide.

Trace logging

Trace logs are used to capture information about the operating environment when component software fails to operate as designed.

The principal log type is the RAS (Reliability, Availability, and Serviceability) trace log. These logs are in the English language only. The RAS trace log mechanism is available for all components of IBM Tivoli Monitoring. Most logs are located in a logs subdirectory on the host computer. See the following information to learn how to configure and use trace logging:

- "Principal trace log files" on page 625
- "Examples: Using trace logs" on page 628
- "Setting RAS trace parameters by using the GUI" on page 629

Note: The documentation refers to the RAS facility in IBM Tivoli Monitoring as "RAS1."

IBM Software Support personnel use the information captured by trace logging to trace a problem to its source or to determine why an error occurred. All components in the IBM Tivoli Monitoring environment have a default tracing level. The tracing level can be changed on a per-component level to adjust the type of trace information collected, the degree of trace detail, the number of trace logs to be kept, and the amount of disk space used for tracing.

Overview of log file management

Knowing the naming conventions for log files helps you to find the files.

Agent log file naming conventions

Table 14 provides the names, locations, and descriptions of IBM Tivoli Monitoring general RAS1 log files. The log file names for the Cisco UCS agent adhere to the following naming convention:

Windows systems

hostname_productcode_instance-name_program_HEXtimestamp-nn.log

Linux and UNIX systems

hostname_productcode_instance-name_program_HEXtimestamp-nn.log

Where:

hostname

Host name of the computer where the monitoring component is running.

productcode

Two-character product code. For IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS, the product code is v6.

instance-name

Instance name of the agent.

program

Name of the program being run.

HEXtimestamp

Hexadecimal time stamp representing the time at which the program started.

nn Rolling log suffix.

Principal trace log files

Trace log files are located on various systems.

Table 14 contains locations, file names, and descriptions of trace logs that can help determine the source of problems with agents.

System where log is located	File name and path	Description
On the Tivoli Enterprise Monitoring Server	 Windows: The IBM Tivoli Monitoringtimestamp.log file in the install_dir\InstallITM path UNIX: The candle_installation.log file in the install_dir/logs path Linux: The 	Provides details about products that are installed. Note: Trace logging is enabled by default. A configuration step is not required to enable this tracing.
	candle_installation.log file in the <i>install_dir</i> /logs path	
On the Tivoli Enterprise Monitoring Server	The Warehouse_Configuration.log file is in the following location on Windows systems: <i>install_dir</i> \InstallITM	Provides details about the configuration of data warehousing for historical reporting.

Table 14. Trace log files for troubleshooting agents

Table 14. Trace log files for troubleshooting ag	gents (continued)
--	-------------------

System where log is located	File name and path	Description
On the Tivoli Enterprise Monitoring Server	 The name of the RAS log file is as follows: Windows: install_dir\logs\ hostname_ms_timestamp-nn.log UNIX: install_dir/logs/ hostname_ms_timestamp-nn.log Linux: install_dir/logs/ hostname_ms_timestamp-nn.log Linux: install_dir/logs/ hostname_ms_timestamp-nn.log Note: File names for RAS1 logs include a hexadecimal time stamp. Also on UNIX systems, a log with a decimal time stamp is provided: hostname_productcode_timestamp.log and hostname_productcode_ timestamp.pid nnnn in the install_dir/logs path, where nnnnn is the process ID number. 	Traces activity on the monitoring server.
On the Tivoli Enterprise Portal Server	 The name of the RAS log file is as follows: Windows: install_dir\logs\ hostname _cq_HEXtimestamp-nn.log UNIX: install_dir /logs/hostname_cq_HEXtimestamp- nn.log Linux: install_dir /logs/hostname_cq_HEXtimestamp- nn.log Note: File names for RAS1 logs include a hexadecimal time stamp. Also on UNIX systems, a log with a decimal time stamp is provided: hostname_productcode_timestamp .log and hostname_productcode_ timestamp.pidnnnn in the install_dir/logs path, where nnnnn is the process ID number. 	Traces activity on the portal server.
On the Tivoli Enterprise Portal Server	<pre>The teps_odbc.log file is located in the following path: Windows: install_dir\InstallITM UNIX: install_dir/logs Linux: install_dir/logs</pre>	When you enable historical reporting, this log file traces the status of the warehouse proxy agent.

System where log is located	File name and path	Description
On the computer that hosts the monitoring agent	<pre>The Name and pair The RAS1 log files are as follows: • Windows: hostname _v6_instance_name_kv6agent_ HEXtimestamp-nn.log in the install_dir\tmaitm6\logs directory • UNIX: hostname_v6_instance_name_ kv6agent_ HEXtimestamp-nn.log in the install_dir/logs directory • Linux: hostname_v6_instance_name_ kv6agent_ HEXtimestamp-nn.log in the install_dir/logs directory These logs are in the following directories: • Windows: install_dir\tmaitm6\ logs • UNIX: install_dir/logs • Linux: install_dir/logs • Linux: install_dir/logs On Linux systems, the following additional logs are provided: - hostname_v6_timestamp.log - hostname_v6_timestamp.pidnnnnn in the install_dir/logs path, where nnnnn is the process ID number</pre>	Traces activity of the monitoring agent.
On the computer that hosts the monitoring agent	<pre>The agent operations log files are as follows: instance_hostnameV6.LG0 is the current log created when the agent was started. instance_hostname_V6.LG1 is the backup of the previous log. These logs are in the following directory depending on the operating system that you are using: • Windows: install_dir\tmaitm6\ logs • Linux: install_dir/logs • UNIX: install_dir/logs</pre>	 Shows whether the agent could connect to the monitoring server. Shows which situations are started and stopped, and shows other events while the agent is running. A new version of this file is generated every time the agent is restarted. IBM Tivoli Monitoring generates one backup copy of the *.LG0 file with the tag .LG1. View the .LG1 tag to learn the following details regarding the <i>previous</i> monitoring session: Status of connectivity with the monitoring server Situations that were running The success or failure status of Take Action commands

Table 14. Trace log files for troubleshooting agents (continued)

Table 14. Trace log files for troubleshooting agents (continued)

System where log is located	File name and path	Description
Definitions of wariables		

```
Definitions of variables:
```

- *timestamp* is a time stamp with a format that includes year (y), month (m), day (d), hour (h), and minute (m), as follows: **yyyymmdd hhmm**
- *HEXtimestamp* is a hexadecimal representation of the time at which the process was started.
- *install_dir* represents the directory path where you installed the IBM Tivoli Monitoring component. *install_dir* can represent a path on the computer that hosts the monitoring system, the monitoring agent, or the portal.
- instance refers to the name of the database instance that you are monitoring.
- *instance_name* refers to the name of the agent instance.
- hostname refers to the name of the computer on which the IBM Tivoli Monitoringcomponent runs.
- *nn* represents the circular sequence in which logs are rotated. this value includes a range from 1 5, by default. The first is always retained because it includes configuration parameters.
- productcode specifies the product code, for example, um for Universal Agent or nt for Windows systems.

For more information about the complete set of trace logs that are maintained on the monitoring server, see the *IBM Tivoli Monitoring Installation and Setup Guide*.

Examples: Using trace logs

You can open trace logs in a text editor to learn some basic facts about your IBM Tivoli Monitoring environment.

IBM Software Support applies specialized knowledge to analyze trace logs to determine the source of problems. The following examples are from the Tivoli Enterprise Monitoring Server log.

Example one

This excerpt shows the typical log for a failed connection between a monitoring agent and a monitoring server with the host name **server1a**:

(Thursday, August 11, 2005, 08:21:30-{94C}kdcl0cl.c,105,"KDCL0_ClientLookup") status=1c020006, "location server unavailable", ncs/KDC1_STC_SERVER_UNAVAILABLE

(Thursday, August 11, 2005, 08:21:35-{94C}kraarreg.cpp,1157,"LookupProxy") Unable to connect to broker at ip.pipe:: status=0, "success", ncs/KDC1_STC_OK (Thursday, August 11, 2005, 08:21:35-{94C}kraarreg.cpp,1402,"FindProxyUsingLocalLookup") Unable

(Thursday, August 11, 2005, 08:21:35-{94C}kraarreg.cpp,1402,"FindProxyUsingLocalLookup") Unable to find running CMS on CT_CMSLIST <IP.PIPE:#server1a>

Example two

The following excerpts from the trace log *for the monitoring server* show the status of an agent, identified here as "Remote node." The name of the computer where the agent is running is **SERVER5B**:

(42C039F9.0000-6A4:kpxreqhb.cpp,649,"HeartbeatInserter") Remote node SERVER5B:V6 is ON-LINE.

(42C3079B.0000-6A4:kpxreqhb.cpp,644,"HeartbeatInserter") Remote node SERVER5B:V6 is OFF-LINE.

See the following key points about the preceding excerpts:

- The monitoring server appends the V6 product code to the server name to form a unique name (SERVER5B:V6) for this instance of the IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS. By using this unique name, you can distinguish multiple monitoring products that might be running on SERVER5B.
- The log shows when the agent started (ON-LINE) and later stopped (OFF-LINE) in the environment.
- For the sake of brevity, an ellipsis (...) represents the series of trace log entries that were generated while the agent was running.
- Between the ON-LINE and OFF-LINE log entries, the agent was communicating with the monitoring server.

• The ON-LINE and OFF-LINE log entries are always available in the trace log. All trace levels that are described in "Setting RAS trace parameters by using the GUI" provide these entries.

On Windows systems, you can use the following alternate method to view trace logs:

- In the Windows Start menu, click Program Files > IBM Tivoli Monitoring > Manage Tivoli Enterprise Monitoring Services. The Manage Tivoli Enterprise Monitoring Services window is displayed.
- 2. Right-click a component and click **Advanced** > **View Trace Log** in the menu. For example, if you want to view the trace log of the IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS, right-click the name of that agent in the window. You can also use the viewer to access remote logs.

Note: The viewer converts time stamps in the logs to a format that is easier to read.

RAS trace parameters

Pinpoint a problem by setting detailed tracing of individual components of the monitoring agent and modules

See "Overview of log file management" on page 624 to ensure that you understand log rolling and can reference the correct log files when you manage log file generation.

Setting RAS trace parameters by using the GUI

On Windows systems, you can use the graphical user interface to set trace options.

About this task

The IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS uses RAS1 tracing and generates the logs described in Table 14 on page 625. The default RAS1 trace level is ERROR.

Procedure

- 1. Open the Manage Tivoli Enterprise Monitoring Services window.
- 2. Select **Advanced** > **Edit Trace Parms**. The Tivoli Enterprise Monitoring Server Trace Parameters window is displayed.
- **3**. Select a new trace setting in the pull-down menu in the **Enter RAS1 Filters** field or type a valid string.
 - General error tracing. KBB_RAS1=ERROR
 - Intensive error tracing. KBB_RAS1=ERROR (UNIT:kv6 ALL)
 - Maximum error tracing. KBB_RAS1=ERROR (UNIT:kv6 ALL) (UNIT:kra ALL)

Note: As this example shows, you can set multiple RAS tracing options in a single statement.

- 4. Modify the value for Maximum Log Size Per File (MB) to change the log file size (changes LIMIT value).
- 5. Modify the value for Maximum Number of Log Files Per Session to change the number of log files per startup of a program (changes COUNT value).
- **6**. Modify the value for Maximum Number of Log Files Total to change the number of log files for all startups of a program (changes MAXFILES value).
- 7. Optional: Click Y (Yes) in the KDC_DEBUG Setting menu to log information that can help you diagnose communications and connectivity problems between the monitoring agent and the monitoring server. The KDC_DEBUG setting and the Maximum error tracing setting can generate a large amount of trace logging. Use these settings only temporarily, while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.

8. Click **OK**. You see a message reporting a restart of the monitoring agent so that your changes take effect.

What to do next

Monitor the size of the logs directory. Default behavior can generate a total of 45 - 60 MB for each agent that is running on a computer. For example, each database instance that you monitor can generate 45 - 60 MB of log data. See the "Procedure" section to learn how to adjust file size and numbers of log files to prevent logging activity from occupying too much disk space.

Regularly prune log files other than the RAS1 log files in the logs directory. Unlike the RAS1 log files that are pruned automatically, other log types can grow indefinitely, for example, the logs in Table 14 on page 625 that include a process ID number (PID).

Use collector trace logs as an additional source of troubleshooting information.

Note: The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.

Manually setting RAS trace parameters

You can manually edit the RAS1 trace logging parameters.

About this task

The Cisco UCS agent uses RAS1 tracing and generates the logs described in Table 14 on page 625. The default RAS1 trace level is ERROR.

Procedure

- 1. Open the trace options file:
 - Windows systems:

install_dir\tmaitm6\KV6ENV_instance name

• UNIX systems:

install_dir /config/v6_instance name.config

- Edit the line that begins with KBB_RAS1= to set trace logging preferences. For example, if you want detailed trace logging, set the Maximum Tracing option: KBB_RAS1=ERROR (UNIT:kv6 ALL) (UNIT:kra ALL)
- 3. Edit the line that begins with **KBB_RAS1_LOG=** to manage the generation of log files:
 - **MAXFILES**: The total number of files that are to be kept for all startups of a specific program. When this value is exceeded, the oldest log files are discarded. The default value is 9.
 - LIMIT: The maximum size, in megabytes (MB) of a RAS1 log file. The default value is 5.
 - IBM Software Support might guide you to modify the following parameters:
 - COUNT: The number of log files to keep in the rolling cycle of one program startup. The default is
 3.
 - **PRESERVE**: The number of files that are not to be reused in the rolling cycle of one program startup. The default value is 1.

Note: The **KBB_RAS1_LOG** parameter also provides for the specification of the log file directory, log file name, and the inventory control file directory and name. Do not modify these values or log information can be lost.

4. Restart the monitoring agent so that your changes take effect.

What to do next

Monitor the size of the logs directory. Default behavior can generate a total of 45 - 60 MB for each agent that is running on a computer. For example, each database instance that you monitor can generate 45 - 60 MB of log data. See the "Procedure" section to learn how to adjust file size and numbers of log files to prevent logging activity from occupying too much disk space.

Regularly prune log files other than the RAS1 log files in the logs directory. Unlike the RAS1 log files that are pruned automatically, other log types can grow indefinitely, for example, the logs in Table 14 on page 625 that include a process ID number (PID).

Use collector trace logs as an additional source of troubleshooting information.

Note: The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.

Dynamic modification of trace settings

You can dynamically modify the trace settings for an IBM Tivoli Monitoring component, such as, Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, most monitoring agents, and other components. You can access these components, except for a few monitoring agents, from the tracing utility.

Dynamic modification of the trace settings is the most efficient method, because you can do it without restarting the component. Settings take effect immediately. Modifications by this method are not persistent.

Note: When the component is restarted, the trace settings are read again from the .env file. Dynamically modifying these settings does not change the settings in the .env files. To modify these trace settings permanently, modify them in the .env files.

ras1

Run this command to modify the trace settings for a Tivoli Monitoring component.

The syntax is as follows:

```
ras1 set|list (UNIT|COMP: class_name ANY|ALL|Detai1|ERROR|Flow|INPUT|Metrics|OUTPUT|STATE)
{(UNIT|COMP: class_name ANY|ALL|Detai1|ERROR|Flow|INPUT|Metrics|OUTPUT|STATE)}
```

You can specify more than one component class to which to apply the trace settings.

Command options

set

Turns on or off tracing depending upon the value of its parameters. If the parameter is **ANY**, it turns it off. All other parameters turn on tracing based on the specified type or level.

list

Displays the default level and type of tracing that is set by default.

Parameters

The parameters that determine the component classes to which to apply the trace settings are as follows:

COMP: class_name

Modifies the trace setting for the name of the component class, as specified by *class_name*, for example, COMP:KDH. The output contains trace for the specified class.

UNIT: class_name

Modifies the trace setting for any unit that starts with the specified *class_name* value, for example, UNIT: kra. The output contains trace for any unit that begins with the specified filter pattern.

The parameters that determine the trace level and type are as follows:

ALL

Displays all trace levels, including every trace point defined for the component. This setting might result in a large amount of trace, so specify other parameters to exclude unwanted trace. You might require the **ALL** parameter to isolate a problem, which is the equivalent to setting "Error Detail Flow State Input Output Metrics".

ANY

Turns off tracing.

Detail

Displays detailed information about each function.

When entered with the list option, the trace is tagged with Det.

ERROR

Logs internal error conditions.

When entered with the list option, the trace is tagged with ER. The output can also be tagged with EVERYE+EVERYU+ER.

F1ow

Displays control flow data for each function entry and exit.

When entered with the list option, the trace is tagged with F1.

INPUT

Displays input data for each function.

When entered with the list option, the trace is tagged with IN.

Metrics

Displays metrics on each function.

When entered with the list option, the trace is tagged with ME.

OUTPUT

Displays output data for each function.

When entered with the list option, the trace is tagged with OUT.

State

Displays the status for each function.

When entered with the list option, the trace is tagged with St.

Example

If you enter ras1 set (COMP:KDH ALL) (COMP:ACF1 ALL) (COMP:KDE ALL), the trace utility turns on all levels of tracing for all the files and functions for which KDH, ACF1, and KDE are the classes.

kbbcrel.c, 400, May 29 2007, 12:54:43, 1.1, * kbbcrnl.c, 400, May 29 2007, 12:54:42, 1.1, * kdhblde.c, 400, May 29 2007, 12:59:34, 1.1, KDH kdhomed.c, 400, May 29 2007, 12:59:24, 1.1, KDH kdhsrej.c, 400, May 29 2007, 13:00:06, 1.5, KDH kdhblfh.c, 400, May 29 2007, 12:59:33, 1.1, KDH kdhbloe.c, 400, May 29 2007, 12:59:38, 1.2, KDH kdhslns.c, 400, May 29 2007, 13:00:08, 1.3, KDH kbbacdl.c, 400, May 29 2007, 12:54:27, 1.2, ACF1 kbbacl.c, 400, May 29 2007, 12:54:27, 1.4, ACF1

```
kbbacli.c, 400, May 29 2007, 12:54:28, 1.11, ACF1
vkdhsfcn.c, 400, May 29 2007, 13:00:11, 1.1, KDH
kdhserq.c, 400, May 29 2007, 12:59:53, 1.1, KDH
kdhblpr.c, 400, May 29 2007, 12:59:39, 1.1, KDH
kdhsgnh.c, 400, May 29 2007, 12:59:49, 1.1, KDH
kdhouts.c, 400, May 29 2007, 12:59:23, 1.1, KDH
kdhsrsp.c, 400, May 29 2007, 13:00:13, 1.2, KDH
kdhslrp.c, 400, May 29 2007, 13:00:12, 1.1, KDH
kdhscsv.c, 400, May 29 2007, 12:59:58, 1.9, KDH
kdebbac.c, 400, May 29 2007, 12:56:50, 1.10, KDE
```

Turning on tracing

To use the tracing utility, you must use a local logon credential for the computer. This tracing method uses the IBM Tivoli Monitoring Service Console. Access the Service Console by using a web browser.

About this task

When you start the Service Console, information is displayed about the components that are currently running on that computer. For example, these components are listed as follows:

- Tivoli Enterprise Portal Server: cnp
- Monitoring Agent for Windows OS: nt
- Tivoli Enterprise Monitoring Server: ms

After you log on, you can type a question mark (?) to display a list of the supported commands. Use the **ras1** command to modify trace settings. If you type this command in the field provided in the Service Console window and click **Submit**, the help for this command is displayed.

Procedure

 Open a web browser and enter the URL to access the Service Console. http://hostname:1920

where *hostname* is the IP address or host name of the computer on which the IBM Tivoli Monitoring component is running.

2. Click the hyperlink associated with the component for which you want to modify its trace settings.

Note: In the previous view, if you want to modify tracing for the Tivoli Enterprise Monitoring Server, select **IBM Tivoli Monitoring Service Console** under **Service Point:** system.*your host name_*ms.

- **3**. Enter a user ID and password to access the system. This ID is any valid user that has access to the system.
- 4. Enter the command to turn on the required level of trace for the specified component classes or units. ras1 set (UNIT|COMP: class_name ALL|Flow|ERROR|Detail|INPUT|Metrics|OUTPUT|STATE) {(UNIT|COMP: class_name ALL|Flow|ERROR|Detail|INPUT|Metrics|OUTPUT|STATE)}

For example, to turn on the control flow trace for the KDE, the command is: ras1 (COMP:KDE Flow)

Turning off tracing

You can use the IBM Tivoli Monitoring Service Console to run the **ras1** command and dynamically turn off tracing.

Procedure

 Open a web browser and enter the URL to access the Service Console. http://hostname:1920 where *hostname* is the IP address or host name of the computer on which the IBM Tivoli Monitoring component is running.

- 2. Click the hyperlink associated with the component for which you want to modify its trace settings.
- **3**. Enter a user ID and password to access the system. This ID is any valid user that has access to the system.
- 4. Enter the command to turn off the required level of trace for the specified component classes or units. ras1 set (UNIT|COMP: class_name ANY) {(UNIT|COMP: class_name ANY)}

For example, to turn off tracing for the kbbcrcd class of the Windows OS agent, the command is: ras1 set (UNIT:kbbcrcd ANY)

Setting trace parameters for the Tivoli Enterprise Console server

In addition to the trace information captured by IBM Tivoli Monitoring, you can also collect additional trace information for the Tivoli Enterprise Console components that gather event server metrics.

About this task

To collect this information, modify the .tec_diag_config file on the Tivoli Enterprise Console event server. Use the steps in the following procedure to modify the event server trace parameters.

Procedure

- 1. Open the \$BINDIR/TME/TEC/.tec_diag_config file in an ASCII editor.
- 2. Locate the entries that configure trace logging for the agent components on the event server. Two entries are included, one for tec_reception and one for tec_rule:

```
# to debug Agent Utils
tec_reception Agent_Utils error /tmp/tec_reception
SP
# to debug Agent Utils
tec_rule Agent_Utils error /tmp/tec_rule
```

3. To gather additional trace information, modify these entries to specify a trace level of trace2:

```
# to debug Agent Utils
tec_reception Agent_Utils trace2 /tmp/tec_reception
SP
# to debug Agent Utils
tec rule Agent Utils trace2 /tmp/tec rule
```

4. In addition, modify the Highest_level entries for tec_rule and tec_reception:

tec_reception Highest_level trace2
SP
tec rule Highest level trace2

Problems and workarounds

The known problems and workarounds are organized into types of problems that might occur with the Cisco UCS agent, for example installation and configuration problems and workspace problems.

Note: You can resolve some problems by ensuring that your system matches the system requirements listed in the Prerequisites topic for the agent in the IBM Tivoli Monitoring for Virtual Environments Information Center.

Note: You can resolve some problems by ensuring that your system matches the system requirements listed in "Requirements" on page 7.

For general troubleshooting information, see the IBM Tivoli Monitoring Troubleshooting Guide.

Installation and configuration troubleshooting

Problems can occur during installation, configuration, and uninstallation of the agent.

The problems and solutions in Table 15 can occur during installation, configuration, and uninstallation of the agent.

Table 15. Problems and solutions for installation and configuration

Problem	Solution
(UNIX only) During a command-line installation, you choose to install a component that is currently installed, and you see the following warning: WARNING - you are about to install the SAME version of "component_name" where component_name is the name of the component that you are attempting to install. Note: This problem affects UNIX command-line installations. If you monitor only Windows environments, you see this problem if you choose to install a product component (for example, a monitoring server) on a UNIX system.	You must exit and restart the installation process. You cannot return to the list where you selected components to install. When you run the installer again, do not attempt to install any component that is currently installed.
Diagnosing problems with product browse settings (Windows systems only).	When you have problems with browse settings, complete the following steps:
	 Click Start > Programs > IBM Tivoli Monitoring > Manage Tivoli Enterprise Monitoring Services. The Manage Tivoli Enterprise Monitoring Services window is displayed.
	 Right-click the Windows agent and select Browse Settings. A text window is displayed.
	3 . Click Save As and save the information in the text file.
	If requested, you can forward this file to IBM Software Support for analysis.
A message similar to "Unable to find running CMS on CT_CMSLIST" in the log file is displayed.	If a message similar to "Unable to find running CMS on CT_CMSLIST" is displayed in the log file, the agent cannot connect to the monitoring server. Confirm the following points:
	• Do multiple network interface cards (NICs) exist on the system?
	• If multiple NICs exist on the system, find out which one is configured for the monitoring server. Ensure that you specify the correct host name and port settings for communication in the IBM Tivoli Monitoring environment.

Problem	Solution
The system is experiencing high CPU usage.	Agent process: View the memory usage of the KV6CMA process. If CPU usage seems to be excessive, restart the monitoring agent. Network cards: The network card configurations can decrease the performance of a system. Each stream of packets that a network card receives (assuming that it is a broadcast or destined for the under-performing system) must generate a CPU interrupt and transfer the data through the I/O bus. If the network card in question is a
	bus-mastering card, work can be offloaded and a data transfer between memory and the network card can continue without using CPU processing power. Bus-mastering cards are 32-bit and are based on PCI or EISA bus architectures.
The configuration panel is blank on 64-bit Windows systems where the Tivoli Enterprise Monitoring Agent Framework (component GL) is version 06.23.00.00 or 06.23.01.00.	Check the GL component version by running kincinfo -t GL from a Windows command line. Example: %CANDLE_HOME%\InstallITM\kincinfo -t GL
	If the GL component version is 06.23.00.00 or 06.23.01.00, take one of the following actions:
	• Preferred action: Upgrade the Windows OS Agent to Version 6.2.3 Fix Pack 2.
	• Alternate action: Install the Agent Compatibility (AC) component from the IBM Tivoli Monitoring V6.2.3 Fix Pack 1 media.
	See Installing the Agent Compatibility (AC) component (http://www-01.ibm.com/support/ knowledgecenter/SSTFXA_6.2.3.1/ com.ibm.itm.doc_6.2.3fp1/itm623FP1_install199.htm %23acpinstall).

Table 15. Problems and solutions for installation and configuration (continued)

Problem	Solution	
On Windows systems, uninstallation of IBM Tivoli Monitoring fails to uninstall the entire environment.	Be sure that you follow the general uninstallation process described in the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> :	
	 Remove Tivoli Enterprise Monitoring Server Application support by completing the following steps: 	
	 a. Use Manage Tivoli Enterprise Monitoring Services. 	
	b. Select Tivoli Enterprise Monitoring Server.	
	c. Right-click and select Advanced.	
	d. Select Remove TEMS application support .	
	e. Select the agent to remove its application support.	
	Uninstall the monitoring agents first, as in the following examples:	
	 Uninstall a single monitoring agent for a specific database. 	
	-OR-	
	 Uninstall all instances of a monitoring product, such as IBM Tivoli Monitoring for Databases. 	
	3. Uninstall IBM Tivoli Monitoring.	
The way to remove inactive managed systems (systems whose status is OFFLINE) from the Navigator tree in the	Use the following steps to remove, but not uninstall, an offline managed system from the Navigator tree:	
portal is not obvious.	1. Click the Enterprise icon in the Navigator tree.	
	 Right-click, and then click Workspace > Managed System Status. 	
	3. Right-click the offline managed system, and select Clear offline entry .	
	To uninstall the monitoring agent, use the procedure described in the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> .	

Table 16. General problems and solutions for uninstallation

Problem	Solution
IBM Tivoli Monitoring might not be able to generate a unique name for monitoring components because of the truncation of names that the product automatically generates.	If the agent supports multiple instances, IBM Tivoli Monitoring automatically creates a name for each monitoring component by concatenating the subsystem name, host name, and product code separated by colons (<i>subsystem_name:hostname</i> :KV6). Note: When you monitor a multinode system, such as a database, IBM Tivoli Monitoring adds a subsystem name to the concatenated name, typically a database instance name.
	The length of the name that IBM Tivoli Monitoring generates is limited to 32 characters. Truncation can result in multiple components having the same 32-character name. If this problem happens, shorten the <i>hostname</i> portion of the name as follows:
	1. Open the configuration file for the monitoring agent, which is located in the following path:
	• On Windows: <i>install_dir</i> \tmaitm6\ <i>Kproduct_code</i> CMA.INI. For example, the product code for the Monitoring Agent for Windows OS is NT. The file name is KNTCMA.INI.
	 On UNIX and Linux: itm_home/config/ product_code.ini and product_code.config. For example, the file names for the Monitoring Agent for UNIX OS is ux.ini and ux.config.
	2. Find the line that begins with CTIRA_HOSTNAME=.
	 Type a new name for host name that is a unique, shorter name for the host computer. The final concatenated name including the subsystem name, new host name, and KV6, cannot be longer than 32 characters. Note: You must ensure that the resulting name is unique with respect to any existing monitoring component that was previously registered with the Tivoli Enterprise Monitoring Server.
	4. Save the file.
	5. Restart the agent.
The software inventory tag for the agent on UNIX and Linux systems is not removed during uninstallation of the agent.	After uninstalling the agent, manually remove the file named <i>full name of agent</i> .cmptag from the \$CANDLEHOME/properties/version/ directory.

Table 16. General problems and solutions for uninstallation (continued)
Table 16. General problems and solutions for uninstallation (continued)

Problem	Solution
When the agent is installed using group deployment, deploygroup was run multiple times. The group deployment starts and completes successfully, but there were multiple entries in the Deploy Status Summary workspace on the Tivoli Enterprise Portal. When the command tried to install multiple times, the additional installations were queued and then were in failed state though the agent was deployed successfully. Note:	There is no solution at this time.
• When the bundle group contains a single bundle and the deployment group contains more than one member (managed system of the same type as AIX or Linux), the deployment is successful on both systems.	
• When the bundle group contains more than one bundle and the deploy group contains single or multiple members, the deployment will be executed on each group member (managed system) depending on the members present in the bundle group and deploy group.	
• The command creates a transaction for each XX bundle for each target system; the bundle matching the operating system for the deployment member is processed successfully; and remaining transactions were in a queued or failed state.	

Remote deployment troubleshooting

Problems can occur with remote deployment and removal of agent software using the Agent Remote Deploy process.

Table 17 contains problems and solutions related to remote deployment.

Table 17. Remote deployment problems and solutions

Problem	Solution
While you are using the remote deployment feature to install the IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS, an empty command window is displayed on the target computer. This problem occurs when the target of remote deployment is a Windows computer. (For more information about the remote deployment feature, see the <i>IBM Tivoli Monitoring</i> <i>Installation and Setup Guide</i> .)	Do not close or modify this window. It is part of the installation process and is dismissed automatically.
The removal of a monitoring agent fails when you use the remote removal process in the Tivoli Enterprise Portal desktop or browser.	This problem might occur when you attempt the remote removal process immediately after you restart the Tivoli Enterprise Monitoring Server. You must allow time for the monitoring agent to refresh its connection with the Tivoli Enterprise Monitoring Server before you begin the remote removal process.

Agent troubleshooting

A problem can occur with the agent after it has been installed.

Table 18 on page 640 contains problems and solutions that can occur with the agent after it is installed.

Table 18. Agent problems and solutions

Problem	Solution
Log data accumulates too rapidly.	Check the RAS trace option settings, which are described in "Setting RAS trace parameters by using the GUI" on page 629. The trace option settings that you can set on the KBB_RAS1= and KDC_DEBUG= lines potentially generate large amounts of data.
When using the itmcmd agent commands to start or stop this monitoring agent, you receive the following error message:	Include the command option -o to specify the instance to start or stop. The instance name must match the name used for configuring the agent. For example:
MKCIIN0201E Specified product is not configured.	./itmcmd agent -o Test1 start v6
	For more information about using the itmcmd commands, see the <i>IBM Tivoli Monitoring Command Reference</i> .

Problem	Solution
A configured and running instance of the monitoring agent is not displayed in the Tivoli Enterprise Portal, but other instances of the monitoring agent on the same system are displayed in the portal.	IBM Tivoli Monitoring products use Remote Procedure Call (RPC) to define and control product behavior. RPC is the mechanism that a client process uses to make a subroutine call (such as GetTimeOfDay or ShutdownServer) to a server process somewhere in the network. Tivoli processes can be configured to use TCP/UDP, TCP/IP, SNA, and SSL as the protocol (or delivery mechanism) for RPCs that you want.
	IP.PIPE is the name given to Tivoli TCP/IP protocol for RPCs. The RPCs are socket-based operations that use TCP/IP ports to form socket addresses. IP.PIPE implements virtual sockets and multiplexes all virtual socket traffic across a single physical TCP/IP port (visible from the netstat command).
	A Tivoli process derives the physical port for IP.PIPE communications based on the configured, well-known port for the hub Tivoli Enterprise Monitoring Server. (This well-known port or BASE_PORT is configured by using the 'PORT:' keyword on the KDC_FAMILIES / KDE_TRANSPORT environment variable and defaults to '1918'.)
	The physical port allocation method is defined as (BASE_PORT + 4096*N), where N=0 for a Tivoli Enterprise Monitoring Server process and N={1, 2,, 15} for another type of monitoring server process. Two architectural limits result as a consequence of the physical port allocation method:
	 No more than one Tivoli Enterprise Monitoring Server reporting to a specific Tivoli Enterprise Monitoring Server hub can be active on a system image. No more than 15 IP.PIPE processes can be active on a
	single system image. A single system image can support any number of Tivoli Enterprise Monitoring Server processes (address spaces) if each Tivoli Enterprise Monitoring Server on that image reports to a different hub. By definition, one Tivoli Enterprise Monitoring Server hub is available per monitoring enterprise, so this architecture limit has been reduced to one Tivoli Enterprise Monitoring Server per system image.
	No more than 15 IP.PIPE processes or address spaces can be active on a single system image. With the first limit expressed earlier, this second limitation refers specifically to Tivoli Enterprise Monitoring Agent processes: no more than 15 agents per system image.
	Continued on next row.

Table 18. Agent problems and solutions (continued)

Table 18.	Agent	problems	and	solutions	(continued)
-----------	-------	----------	-----	-----------	-------------

Problem	Solution
Continued from previous row.	This limitation can be circumvented (at current maintenance levels, IBM Tivoli Monitoring V6.1, Fix Pack 4 and later) if the Tivoli Enterprise Monitoring Agent process is configured to use the EPHEMERAL IP.PIPE process. (This process is IP.PIPE configured with the 'EPHEMERAL:Y' keyword in the KDC_FAMILIES / KDE_TRANSPORT environment variable). The number of ephemeral IP.PIPE connections per system image has no limitation. If ephemeral endpoints are used, the Warehouse Proxy agent is accessible from the Tivoli Enterprise Monitoring Server associated with the agents using ephemeral connections either by running the Warehouse Proxy agent on the same computer or by using the Firewall Gateway feature. (The Firewall Gateway feature relays the Warehouse Proxy agent connection from the Tivoli Enterprise Monitoring Server computer to the Warehouse Proxy agent computer if the Warehouse Proxy agent cannot coexist on the same computer.)
When the Cisco UCS agent navigator contains multiple instances, the Cisco UCS workspace does not show the default views that are updated in version 7.2.	This problem occurs when there are multiple instances of the Cisco UCS agent on the managed system. To resolve this problem, go to the node and view the default views that are updated in version 7.2.
In the Rack Mount Server HBA Details workspace, the link to the HBA health is not available.	This problem occurs because the data related to the rack-mount server HBA is not available at the emulator. No solution is available for this problem.

Workspace troubleshooting

Problems can occur with general workspaces and agent-specific workspaces.

Table 19 on page 643 contains problems and solutions related to workspaces.

Table 19.	Workspace	problems	and	solutions
-----------	-----------	----------	-----	-----------

Problem	Solution	
The process application components are available, but the Availability status shows PROCESS_DATA_NOT_ AVAILABLE.	This problem occurs because the PerfProc performance object is disabled. When this condition exists, IBM Tivoli Monitoring cannot collect performance data for this process. Use the following steps to confirm that this problem exists and to resolve it:	
	1. In the Windows Start menu, click Run.	
	2. Type perfmon.exe in the Open field of the Run window. The Performance window is displayed.	
	3 . Click the plus sign (+) in the toolbar. The Add Counters window is displayed.	
	4. Look for Process in the Performance object menu.	
	5. Complete one of the following actions:	
	• If you see Process in the menu, the PerfProc performance object is enabled and the problem is coming from a different source. You might need to contact IBM Software Support.	
	• If you do not see Process in the menu, use the Microsoft utility from the Microsoft.com Operations website to enable the PerfProc performance object.	
	The Process performance object becomes visible in the Performance object menu of the Add Counters windows, and IBM Tivoli Monitoring is able to detect Availability data.	
	6. Restart the monitoring agent.	
The name of the attribute does not display in a bar chart or graph view.	When a chart or graph view that includes the attribute is scaled to a small size, a blank space is displayed instead of a truncated name. To see the name of the attribute, expand the view of the chart until sufficient space is available to display all characters of the attribute name.	
At the end of each view, you see the following Historical workspace KFWITM220E error: Request failed during execution.	Ensure that you configure all groups that supply data to the view. In the Historical Configuration view, ensure that data collection is started for all groups that supply data to the view.	

Table 19.	Workspace	problems	and	solutions	(continued)
-----------	-----------	----------	-----	-----------	-------------

Problem	Solution
You start collection of historical data but the data cannot be seen.	 Use the following managing options for historical data collection: Basic historical data collection populates the Warehouse with raw data. This type of data collection is turned off by default. For information about managing this feature including how to set the interval at which data is collected, see "Managing historical data" in the <i>IBM Tivoli Monitoring Administrator's Guide</i>. By setting a more frequent interval for data collection, you reduce the load on the system incurred every time data is uploaded. Use the Summarization and Pruning agent to collect specific amounts and types of historical data. Historical data is not displayed until the Summarization and Pruning monitoring agent begins collecting the data. By default, this agent begins collection at 2 a.m. daily. At that point, data is visible in the workspace view. For information about how to modify the default collection settings, see "Managing historical data" in the <i>IBM Tivoli Monitoring Administrator's Guide</i>.
Historical data collection is unavailable because of incorrect queries in the Tivoli Enterprise Portal.	The Sort By, Group By, and First/Last functions column are not compatible with the historical data collection feature. Use of these advanced functions makes a query ineligible for historical data collection. Even if data collection has started, you cannot use the time span feature if the query for the chart or table includes column functions or advanced query options (Sort By, Group By, First / Last). To ensure support of historical data collection, do not use the Sort By, Group By, or First/Last functions in your queries. For information about the historical data collection function, See "Managing historical data" in the <i>IBM</i> <i>Tivoli Monitoring Administrator's Guide</i> or the Tivoli Enterprise Portal online help .
When you use a long process name in the situation, the process name is truncated.	Truncation of process or service names for situations in the Availability table in the portal display is the expected behavior. The maximum name length is 100 bytes.
Regular (non-historical) monitoring data fails to be displayed.	Check the formation of the queries you use to gather data. For example, look for invalid SQL statements.
Navigator items and workspace titles are labeled with internal names such as Kxx:KXX0000 instead of the correct names (such as Disk), where XX and xx represent the two-character agent code.	Ensure that application support has been added on the monitoring server, portal server, and portal client. For more information about installing application support, see "Installing and enabling application support" in the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> .

Situation troubleshooting

Problems can occur with situations and situation configuration.

Table 20 contains problems and solutions for situations.

	Table 20.	Situation	problems	and	solutions
--	-----------	-----------	----------	-----	-----------

Problem	Solution
Monitoring activity requires too much disk space.	Check the RAS trace logging settings that are described in "Setting RAS trace parameters by using the GUI" on page 629. For example, trace logs grow rapidly when you apply the ALL logging option.
Monitoring activity requires too many system resources.	"Disk capacity planning for historical data" on page 504 describes the performance impact of specific attribute groups. If possible, decrease your use of the attribute groups that require greater system resources.
A formula that uses mathematical operators appears to be incorrect. For example, if you were monitoring a Linux system, the formula that calculates when Free Memory falls under 10 percent of Total Memory does not work: LT #'Linux_VM_Stats.Total_Memory' / 10	This formula is incorrect because situation predicates support only logical operators. Your formulas cannot have mathematical operators. Note: The Situation Editor provides alternatives to math operators. In the example, you can select the % Memory Free attribute and avoid the need for math operators.
You want to change the appearance of situations when they are displayed in the navigation tree.	 Right-click an item in the navigation tree. Click Situations in the menu. The Situation Editor window is displayed. Select the situation that you want to modify. Use the State menu to set the status and appearance of the Situation when it triggers. Note: The State setting is not related to severity settings in the Tivoli Enterprise Console.
When a situation is triggered in the Event Log attribute group, it remains in the Situation Event Console as long as the event ID entry is present in the Event Log workspace. When this event ID entry is removed from the Event Log workspace on the Tivoli Enterprise Portal, the situation is also cleared even if the actual problem that caused the event is not resolved, and the event ID entry is also present in the Windows Event Viewer.	A timeout occurs on the cache of events for the NT Event Log group. Increase the cache time of Event Log collection to meet your requirements by adding the following variable and timeout value to the KpcENV file for the agent (where pc is the two-letter product code): CDP_NT_EVENT_LOG_CACHE_TIMEOUT=3600 This variable determines how long events from the NT Event Log are kept.
The situation for a specific agent is not visible in the Tivoli Enterprise Portal.	Open the Situation Editor. Access the All managed servers view. If the situation is not displayed, confirm that the monitoring server has been seeded for the agent. If not, seed the server, as described in the <i>IBM Tivoli</i> <i>Monitoring Installation and Setup Guide</i> .
The monitoring interval is too long.	Access the Situation Editor view for the situation that you want to modify. Check the Sampling interval area in the Formula tab. Adjust the time interval as required.
The situation did not activate at startup.	Manually recycle the situation as follows:
	1. Right-click the situation and select Stop Situation .
	2. Right-click the situation and select Start Situation .
	Note: You can permanently avoid this problem by selecting the Run at Startup check box of the Situation Editor view for a specific situation.

Table 20. Situation problems and solutions (continued)

Problem	Solution		
The situation is not displayed.	Click the Action tab and check whether the situation has an automated corrective action. This action can occur directly or through a policy. The situation might be resolving so quickly that you do not see the event or the update in the graphical user interface.		
An Alert event did not occur even though the predicate was correctly specified.	Check the logs, reports, and workspaces.		
A situation fires on an unexpected managed object.	Confirm that you distributed and started the situation on the correct managed system.		
The product did not distribute the situation to a managed system.	Click the Distribution tab and check the distribution settings for the situation.		
The situation does not fire.	This problem can be caused when incorrect predicates are present in the formula that defines the situation. For example, the managed object shows a state that normally triggers a monitoring event, but the situation is not true because the wrong attribute is specified in the formula. In the Formula tab, analyze predicates as follows:		
	1. Click the fx icon in the Formula area. The Show formula window is displayed.		
	a. Confirm the following details in the Formula area of the window:		
	 The attributes that you intend to monitor are specified in the formula. 		
	 The situations that you intend to monitor are specified in the formula. 		
	The logical operators in the formula match your monitoring goal.		
	The numeric values in the formula match your monitoring goal.		
	 b. (Optional) Select the Show detailed formula check box to see the original names of attributes in the application or operating system that you are monitoring. 		
	c. Click OK to dismiss the Show formula window.		
	 2. (Optional) In the Formula area of the Formula tab, temporarily assign numeric values that immediately trigger a monitoring event. The triggering of the event confirms that other predicates in the formula are valid. Note: After you complete this test, you must restore the numeric values to valid levels so that you do not generate excessive monitoring data based on your temporary settings. 		
	For additional information about situations that do not fire, see "Situations are not firing" in the <i>IBM Tivoli Monitoring Troubleshooting Guide</i> .		
Situation events are not displayed in the Events Console view of the workspace.	Associate the situation with a Navigator item. Note: The situation does not need to be displayed in the workspace. It is sufficient that the situation is associated with any Navigator item.		

Table 20. Situation problems and solutions (continued)	Table 20.	Situation	problems	and	solutions	(continued)
--	-----------	-----------	----------	-----	-----------	-------------

Problem	Solution	
You do not have access to a situation.	Note: You must have administrator privileges to complete these steps.	
	 Click Edit > Administer Users to access the Administer Users window. 	
	2. In the Users area, select the user whose privileges you want to modify.	
	3. In the Permissions tab, Applications tab, and Navigator Views tab, select the permissions or privileges that correspond to the user role.	
	4. Click OK.	
A managed system seems to be offline.	1. Select Physical View and click the Enterprise Level of the navigator tree.	
	2. Click View > Workspace > Managed System Status to see a list of managed systems and their status.	
	3 . If a system is offline, check network connectivity and the status of the specific system or application.	

Take Action commands troubleshooting

Problems can occur with Take Action commands.

Table 21 contains problems and solutions that can occur with Take Action commands.

When each Take Action command runs, it generates a log file listed in Table 14 on page 625.

Table 21. Take Action commands problems and solutions

Problem	Solution
Take Action commands often require several minutes to complete.	Allow several minutes. If you do not see a message advising you of completion, try to run the command manually.
Situations fail to trigger Take Action commands.	Attempt to manually run the Take Action command in the Tivoli Enterprise Portal. If the Take Action command works, look for configuration problems in the situation. See "Situation troubleshooting" on page 645. If the Take Action command fails, for general information about troubleshooting Take Action commands, see the <i>IBM</i> <i>Tivoli Monitoring Troubleshooting Guide</i> .

Tivoli Common Reporting troubleshooting

You can troubleshoot problems that occur with installation and with using the Tivoli Common Reporting predefined reports for the Cisco UCS agent.

For installation problems, use the report installer log to identify the step where installation failed. Use the problems and solutions information to troubleshoot other problems.

Analyzing the report installer log

Review the Report_Installer_For_TCR_Output.txt file (on Windows under C:\Documents and Settings\Administrator; on Linux and UNIX under \$HOME.) to identify the step on which the installer failed.

Sample log output

INSTALLATION COMPLETED.

The status of installation steps: TCRRunDBScripts(runDbScript): FAILED INFORMATION: /tmp/450480.tmp/reports/itmfvs/build.xml:31: The <fileset> type doesn't support the "erroronmissingdir" attribute. InstallReportsAction(IBM Tivoli Monitoring for Virtual Environments Reports v7.1): SUCCESS CognosDataSource(TDW): SUCCESS

Analysis

In the sample log, the success or failure of each step is evident:

- 1. InstallReportsAction (Step 1 Importing Reports) succeeded.
- CognosDataSource(TDW) (Step 2 Defining the Tivoli Data Warehouse data source in Cognos) succeeded.
- **3**. RunDBScripts (Step 3 Updating schema by running scripts against the Tivoli Data Warehouse) failed.

Step 2: Define the Tivoli Data Warehouse data source in Cognos.

Possible causes of the failure:

- The database alias that is specified during installation did not match the cataloged DB2 database alias, the Oracle local TNS service name, or the MS SQL Server ODBC data source name.
- The credentials are incorrect for connecting to the Tivoli Data Warehouse.

Solution:

• Ensure that you installed the database client on the same server as Tivoli Common Reporting and cataloged the database. If you are using Oracle, the TNS service name must be defined in the tnsnames.ora file. If you are using MS SQL server, the ODBC data source must be defined . See Connecting to the Tivoli Data Warehouse using the database client over ODBC in the *IBM Tivoli Monitoring Administrator's Guide* (http://www-01.ibm.com/support/knowledgecenter/SSTFXA_6.2.3/com.ibm.itm.doc_6.2.3/tcr_tdwconnect.htm). If you already have a Tivoli Data Warehouse data source that is defined, adding another one overwrites the existing data source.

Step 3: Make schema updates

Possible causes of failure:

- Database administrative privileges (such as db2admin or sys) are required for this step; if user is specified as ITMUSER, the schema cannot be updated.
- Database issues such as connectivity problems, full logs, space issues, or any other performance problems that prevent writing to the database.

Solution:

- An error at Step 3 is accompanied by an informational message that contains SQL errors with SQL codes. You can search on the SQL code to determine the problem.
- If Time Dimension tables are present in the database, you can choose to skip the schema update (JDBC) step while you are running the dashboard installer. If you want to create time dimension with a different granularity, you must edit the following sql file:
 - 1. Go to *reports package*\reports\cognos_reports\itmfvs\db_scripts.
 - 2. Open call_proc_DB2.sql , call_proc_MSSQL.sql, or call_proc_ORACLE.sql depending on the database that is used.
 - 3. Edit the last parameter in the call to IBM_TRAM.CREATE_TIME_DIMENSION.

Note:

- Connections under the Tivoli Data Warehouse are overwritten by the report installer. Overwriting these connections is a limitation of the current installer.
- The privileges that are required while you are running the installer are ITMUSER (database user) for the Tivoli Data Warehouse creation step and ADMIN (database administrator) for the schema update step. The Database Test connection for the schema update panel does not check for privileges of the database user. Installation fails at the schema update step if the database user does not have administrative privileges.

Problems and solutions

Table 22 contains problems and solutions that can occur with the Tivoli Common Reporting predefined reports for IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS. See the Tivoli Common Reporting Information Center (http://www-01.ibm.com/support/knowledgecenter/SSH2DF_1.2.0.1/tcr_welcome.html) for more information about troubleshooting for the Tivoli Common Reporting tool.

For timeout problems, if the default timeout values for the Tivoli Common Reporting or the Cognos console login is too short, you can change the settings. If your Java virtual machine runs out of memory, you can increase the heap size.

Problem	Solution
If the selected (daily, hourly, weekly, monthly, quarterly, or yearly) summarization table does not exist in the database for a report, the following error message is displayed: An error occurred while performing operation 'sqlPrepareWithOptions' status='-16'.	Configure the IBM Tivoli Warehouse Summarization and Pruning Agent correctly so that the database contains data for all summarization types.
You choose to view the reports in Portuguese (Brazilian), but the change in locale is not reflected in the report prompt page or the output. You still see English strings instead of Portuguese (Brazilian).	For this release, when you choose to view the reports in Portuguese (Brazilian) with Tivoli Common Reporting 3.1, the text is displayed in English. This is a known issue with Cognos 10.2. However, the reports can be viewed in Portuguese (Brazilian) using Tivoli Common Reporting 2.1.1.

Table 22. Tivoli Common Reporting for Cisco UCS agent problems and solutions

Support information

If you have a problem with your IBM software, you want to resolve it quickly.

IBM provides the following ways for you to obtain the support you need:

Online

The following websites contain troubleshooting information:

- Go to the IBM Software Support website (http://www.ibm.com/support/entry/portal/ software) and follow the instructions.
- Go to the Application Performance Management Wiki (http://www.ibm.com/developerworks/ servicemanagement/apm/index.html). Feel free to contribute to this wiki.

IBM Support Assistant

The IBM Support Assistant (ISA) is a free local software serviceability workbench that helps you resolve questions and problems with IBM software products. The ISA provides quick access to support-related information and serviceability tools for problem determination. To install the ISA software, go to the IBM Support Assistant website (http://www.ibm.com/software/support/isa).

Informational, warning, and error messages overview

Messages relay information about how the system or application is performing and can alert you to exceptional conditions when they occur.

Messages are sent to an output destination, such as a file, database, or console screen.

If you receive a warning or error message, you can do one of the following actions:

- Follow the instructions listed in the Detail window of the message if this information is included there.
- Consult the message details listed in this topic to see what action you can take to correct the problem.
- Consult the message log for message ID, text, time, and date of the message, as well as other data you can use to diagnose the problem.

Message format

The message format contains a message ID and text, an explanation, and an operator response.

IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS messages have the following format:

Message ID and text Explanation Operator Response

The message ID has the following format: CCC####severity

where:

- **CCC** Prefix that indicates the component to which the message applies. The following components are used:
 - KV6 General Cisco UCS agent messages
 - #### Number of the message

severity

Severity of the message. Three levels of severity are used:

- I Informational messages provide feedback about something that happened in the product or system that might be important. These messages can provide guidance when you are requesting a specific action from the product.
- **W** Warning messages call your attention to an exception condition. The condition might not be an error but can cause problems if not resolved.
- **E** Error messages indicate that an action cannot be completed because of a user or system error. These messages require user response.

The *Text* of the message provides a general statement regarding the problem or condition that occurred. The *Explanation* provides additional information about the message and the possible cause for the condition. The *Operator Response* provides actions to take in response to the condition, particularly for error messages (messages with the "E" suffix).

Note: Many message texts and explanations contain variables, such as the specific name of a server or application. Those variables are represented in this topic as symbols, such as "&1." Actual messages contain values for these variables.

Agent messages

The following messages apply to IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS.

KV6001I

Boot policy changed successfully.

Explanation:

The boot policy that is associated with the service profile is changed successfully.

Operator response:

None.

KV6006E

Boot policy is already associated with the service profile.

Explanation:

The boot policy is already associated with the service profile.

Operator response:

None.

KV6004E

Cannot perform the requested task.

Explanation:

The task cannot be performed as requested.

Operator response: Generic error.

KV6002I

Boot policy modified successfully.

Explanation:

The boot policy is modified successfully.

Operator response:

None.

KV6007E

The entered parameters are same as the existing parameters.

Explanation:

The parameters that you have entered are same as the existing parameters.

Operator response:

None.

Appendix A. Event mapping

The Tivoli Event Integration Facility (EIF) interface is used to forward situation events to Tivoli Netcool/OMNIbus or Tivoli Enterprise Console.

EIF events specify an event class, and the event data is specified as name-value pairs that identify the name of an event slot and the value for the slot. An event class can have subclasses. IBM Tivoli Monitoring provides the base event class definitions and a set of base slots that are included in all monitoring events. Agents extend the base event classes to define subclasses that include agent-specific slots. For Cisco UCS agent events, the event classes correspond to the agent attribute groups, and the agent-specific slots correspond to the attributes in the attribute group.

The situation editor in the Tivoli Enterprise Portal can be used to perform custom mapping of data to EIF slots instead of using the default mapping described in this topic. For more information about EIF slot customization, see the *Tivoli Enterprise Portal User's Guide*.

Tivoli Enterprise Console requires that event classes and their slots are defined in BAROC (Basic Recorder of Objects in C) files. Each agent provides a BAROC file that contains event class definitions for the agent and is installed on the Tivoli Enterprise Monitoring Server in the TECLIB directory (install_dir/cms/ TECLIB for Windows systems and install_dir/tables/TEMS_hostname/TECLIB for UNIX systems) when application support for the agent is installed. The BAROC file for the agent and the base BAROC files provided with Tivoli Monitoring must also be installed onto the Tivoli Enterprise Console.

For details, see "Setting up event forwarding to Tivoli Enterprise Console" in the IBM Tivoli Monitoring Installation and Setup Guide

Each of the event classes is a child of KV6_Base and is defined in the kv6.baroc (version 07.20.01) file. The KV6_Base event class can be used for generic rules processing for any event from the IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS.

For events that are generated by situations in the Chassis Backplane LAN Error attribute group, events are sent by using the ITM_KV6_CHASSIS_BACKPLANE_LAN_ERROR event class. This event class contains the following slots:

- align_delta: INTEGER
- align_delta_enum: STRING
- backplane_port_dn: STRING
- backplane_port_error_stats_dn: STRING
- chassis_dn: STRING
- chassis_id: STRING
- deffered_transmitted_delta: INTEGER
- deffered_transmitted_delta_enum: STRING
- fcs_delta: INTEGER
- fcs_delta_enum: STRING
- io_module_dn: STRING
- io_module_id: STRING
- mac_received_delta: INTEGER
- mac_received_delta_enum: STRING
- mac_transmitted_delta: INTEGER
- mac_transmitted_delta_enum: STRING

- node: STRING
- out_discard_delta: INTEGER
- out_discard_delta_enum: STRING
- port_id: STRING
- receive_delta: INTEGER
- receive_delta_enum: STRING
- timestamp: STRING
- transmit_delta: INTEGER
- transmit_delta_enum: STRING
- under_size_delta: INTEGER
- under_size_delta_enum: STRING

For events that are generated by situations in the Chassis Backplane LAN Loss attribute group, events are sent by using the ITM_KV6_CHASSIS_BACKPLANE_LAN_LOSS event class. This event class contains the following slots:

- backplane_port_dn: STRING
- backplane_port_loss_stats_dn: STRING
- carrier_sense_delta: INTEGER
- carrier_sense_delta_enum: STRING
- chassis_dn: STRING
- chassis_id: STRING
- excess_collision_delta: INTEGER
- excess_collision_delta_enum: STRING
- giants_delta: INTEGER
- giants_delta_enum: STRING
- io_module_dn: STRING
- io_module_id: STRING
- late_collision_delta: INTEGER
- late_collision_delta_enum: STRING
- multi_collision_delta: INTEGER
- multi_collision_delta_enum: STRING
- node: STRING
- port_id: STRING
- single_collision_delta: INTEGER
- single_collision_delta_enum: STRING
- sqe_test_delta: INTEGER
- sqe_test_delta_enum: STRING
- symbol_delta: INTEGER
- symbol_delta_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Chassis Backplane LAN Pause attribute group, events are sent by using the ITM_KV6_CHASSIS_BACKPLANE_LAN_PAUSE event class. This event class contains the following slots:

- backplane_port_dn: STRING
- backplane_port_pause_stats_dn: STRING

- chassis_dn: STRING
- chassis_id: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- port_id: STRING
- recieve_pause_delta: INTEGER
- recieve_pause_delta_enum: STRING
- resets_delta: INTEGER
- resets_delta_enum: STRING
- timestamp: STRING
- transmitted_pause_delta: INTEGER
- transmitted_pause_delta_enum: STRING

For events that are generated by situations in the Chassis Backplane LAN Statistics attribute group, events are sent by using the ITM_KV6_CHASSIS_BACKPLANE_LAN_STATISTICS event class. This event class contains the following slots:

- backplane_ether_rx_stats_dn: STRING
- backplane_ether_tx_stats_dn: STRING
- backplane_port_dn: STRING
- chassis_dn: STRING
- chassis_id: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- port_id: STRING
- received_broadcast_packets_delta: INTEGER
- received_broadcast_packets_delta_enum: STRING
- received_jumbo_packets_delta: INTEGER
- received_jumbo_packets_delta_enum: STRING
- received_multicast_packets_delta: INTEGER
- received_multicast_packets_delta_enum: STRING
- received_unicast_packets_delta: INTEGER
- received_unicast_packets_delta_enum: STRING
- timestamp: STRING
- total_received_bytes_delta: INTEGER
- total_received_bytes_delta_enum: STRING
- total_received_packets_delta: INTEGER
- total_received_packets_delta_enum: STRING
- total_transmitted_bytes_delta: INTEGER
- total_transmitted_bytes_delta_enum: STRING
- total_transmitted_packets_delta: INTEGER
- total_transmitted_packets_delta_enum: STRING
- transmitted_broadcast_packets_delta: INTEGER
- transmitted_broadcast_packets_delta_enum: STRING
- transmitted_jumbo_packets_delta: INTEGER

- transmitted_jumbo_packets_delta_enum: STRING
- transmitted_multicast_packets_delta: INTEGER
- transmitted_multicast_packets_delta_enum: STRING
- transmitted_uniicast_packets_delta: INTEGER
- transmitted_uniicast_packets_delta_enum: STRING

For events that are generated by situations in the Chassis Configuration Details attribute group, events are sent by using the ITM_KV6_CHASSIS_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- model: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the Chassis Fan Health Summary attribute group, events are sent by using the ITM_KV6_CHASSIS_FAN_HEALTH_SUMMARY event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- fan_dn: STRING
- fan_id: STRING
- fan_module_dn: STRING
- fan_module_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- perf: STRING
- power: STRING
- presence: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the Chassis Fan Module Configuration attribute group, events are sent by using the ITM_KV6_CHASSIS_FAN_MODULE_CONFIGURATION event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- fan_module_dn: STRING

- fan_module_id: STRING
- model: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- tray: INTEGER
- tray_enum: STRING
- vendor: STRING

For events that are generated by situations in the Chassis Fan Module Health attribute group, events are sent by using the ITM_KV6_CHASSIS_FAN_MODULE_HEALTH event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- fan_module_dn: STRING
- fan_module_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- performance: STRING
- power: STRING
- presence: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the Chassis Fan Module Temperature attribute group, events are sent by using the ITM_KV6_CHASSIS_FAN_MODULE_TEMPERATURE event class. This event class contains the following slots:

- ambient_temperature: REAL
- ambient_temperature_enum: STRING
- chassis_dn: STRING
- chassis_id: STRING
- fan_module_dn: STRING
- fan_module_id: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Chassis Fan Statistics attribute group, events are sent by using the ITM_KV6_CHASSIS_FAN_STATISTICS event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING

- fan_dn: STRING
- fan_id: STRING
- fan_module_dn: STRING
- fan_module_id: STRING
- fan_speed: INTEGER
- fan_speed_enum: STRING
- fan_stats_dn: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Chassis Hardware Firmware attribute group, events are sent by using the ITM_KV6_CHASSIS_HARDWARE_FIRMWARE event class. This event class contains the following slots:

- boot_unit_operstate: STRING
- boot_unit_version: STRING
- chassis_dn: STRING
- chassis_id: STRING
- deployment: STRING
- management_controller_dn: STRING
- node: STRING
- running_version: STRING
- subject: STRING
- timestamp: STRING
- update_operstate: STRING
- update_version: STRING

For events that are generated by situations in the Chassis Health Summary attribute group, events are sent by using the ITM_KV6_CHASSIS_HEALTH_SUMMARY event class. This event class contains the following slots:

- active_fans: INTEGER
- active_fans_enum: STRING
- active_fans_percentage: INTEGER
- active_fans_percentage_enum: STRING
- chassis_dn: STRING
- chassis_id: STRING
- configuration_state: STRING
- faulty_fans: INTEGER
- faulty_fans_enum: STRING
- health: STRING
- node: STRING
- operabiltiy: STRING
- operstate: STRING
- power: STRING
- presence: STRING
- slot_utilization: INTEGER
- slot_utilization_enum: STRING

- thermal: STRING
- timestamp: STRING
- total_fans: INTEGER
- total_fans_enum: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- total_free_slots: INTEGER
- total_free_slots_enum: STRING
- total_occupied_slots: INTEGER
- total_occupied_slots_enum: STRING

For events that are generated by situations in the Chassis IO Backplane Port Health attribute group, events are sent by using the ITM_KV6_CHASSIS_IO_BACKPLANE_PORT_HEALTH event class. This event class contains the following slots:

- backplane_port_dn: STRING
- chassis_dn: STRING
- chassis_id: STRING
- health: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- operstate: STRING
- port_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the Chassis IO Module Configuration attribute group, events are sent by using the ITM_KV6_CHASSIS_IO_MODULE_CONFIGURATION event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- io_module_dn: STRING
- io_module_id: STRING
- model: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- side: STRING
- switchid: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the Chassis IO Module Health Summary attribute group, events are sent by using the ITM_KV6_CHASSIS_IO_MODULE_HEALTH_SUMMARY event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- health: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- presence: STRING
- serial: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the Chassis IO Module Temperature attribute group, events are sent by using the ITM_KV6_CHASSIS_IO_MODULE_TEMPERATURE event class. This event class contains the following slots:

- ambient_temperature: REAL
- ambient_temperature_enum: STRING
- chassis_dn: STRING
- chassis_id: STRING
- io_module_dn: STRING
- io_module_id: STRING
- io_module_stats_dn: STRING
- node: STRING
- temperature: REAL
- temperature_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Chassis Power Statistics attribute group, events are sent by using the ITM_KV6_CHASSIS_POWER_STATISTICS event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- input_power: REAL
- input_power_enum: STRING
- node: STRING
- output_power: REAL
- output_power_enum: STRING
- timestamp: STRING
- total_consumed_power: REAL
- total_consumed_power_enum: STRING

For events that are generated by situations in the Chassis PSU Configuration attribute group, events are sent by using the ITM_KV6_CHASSIS_PSU_CONFIGURATION event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- model: STRING
- node: STRING
- psu_dn: STRING
- psu_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the Chassis PSU Health Summary attribute group, events are sent by using the ITM_KV6_CHASSIS_PSU_HEALTH_SUMMARY event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- performance: STRING
- power: STRING
- presence: STRING
- psu_dn: STRING
- psu_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the Chassis PSU Statistics attribute group, events are sent by using the ITM_KV6_CHASSIS_PSU_STATISTICS event class. This event class contains the following slots:

- ambient_temperature: REAL
- ambient_temperature_enum: STRING
- chassis_dn: STRING
- chassis_id: STRING
- input_voltage_210v: REAL
- input_voltage_210v_enum: STRING
- node: STRING
- output_current: REAL
- output_current_enum: STRING
- output_power: REAL
- output_power_enum: STRING

- output_voltage_12v: REAL
- output_voltage_12v_enum: STRING
- output_voltage_3v3: REAL
- output_voltage_3v3_enum: STRING
- psu_dn: STRING
- psu_id: STRING
- psu_stats_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Chassis Slot Details attribute group, events are sent by using the ITM_KV6_CHASSIS_SLOT_DETAILS event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- blade_server_model: STRING
- blade_server_type: STRING
- chassis_dn: STRING
- chassis_id: STRING
- node: STRING
- slot_id: STRING
- timestamp: STRING

For events that are generated by situations in the Chassis Slot Utilization Summary attribute group, events are sent by using the ITM_KV6_CHASSIS_SLOT_UTILIZATION_SUMMARY event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- blade_server_model: STRING
- blade_server_type: STRING
- chassis_dn: STRING
- chassis_id: STRING
- node: STRING
- slot_id: STRING
- slot_status: STRING
- timestamp: STRING

For events that are generated by situations in the ChassisAndFabricExtender Health Summary attribute group, events are sent by using the ITM_KV6_CHASSISANDFABRICEXTENDER_HEALTH_SUMMARY event class. This event class contains the following slots:

- active_fans: INTEGER
- active_fans_enum: STRING
- active_fans_percentage: INTEGER
- active_fans_percentage_enum: STRING
- component_dn: STRING
- component_id: STRING
- configuration_state: STRING
- faulty_fans: INTEGER
- faulty_fans_enum: STRING

- health: STRING
- model: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- power: STRING
- presence: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- slot_utilization: INTEGER
- slot_utilization_enum: STRING
- thermal: STRING
- timestamp: STRING
- topsystem: STRING
- total_fans: INTEGER
- total_fans_enum: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- total_free_slots: INTEGER
- total_free_slots_enum: STRING
- total_occupied_slots: INTEGER
- total_occupied_slots_enum: STRING
- vendor: STRING
- voltage: STRING

For events that are generated by situations in the Cisco UCS Topology attribute group, events are sent by using the ITM_KV6_CISCO_UCS_TOPOLOGY event class. This event class contains the following slots:

- component_dn: STRING
- component_id: STRING
- component_status: STRING
- component_type: STRING
- connection_type: STRING
- connect_to_node: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Faults attribute group, events are sent by using the ITM_KV6_FAULTS event class. This event class contains the following slots:

- affected_object_dn: STRING
- cause: STRING
- created_time: STRING
- description: STRING
- explanation: STRING
- fault_code: STRING
- fault_dn: STRING

- fault_id: STRING
- highest_severity: STRING
- kv6_severity: STRING
- last_transaction_time: STRING
- node: STRING
- occurrences: INTEGER
- occurrences_enum: STRING
- original_severity: STRING
- previous_severity: STRING
- recommended_action: STRING
- timestamp: STRING
- type: STRING

For events that are generated by situations in the FEX Backplane Port Config attribute group, events are sent by using the ITM_KV6_FEX_BACKPLANE_PORT_CONFIG event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- iftype: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- peerdn: STRING
- port_dn: STRING
- port_id: STRING
- switchid: STRING
- timestamp: STRING
- transport: STRING
- type: STRING

For events that are generated by situations in the FEX Backplane Port Error attribute group, events are sent by using the ITM_KV6_FEX_BACKPLANE_PORT_ERROR event class. This event class contains the following slots:

- align_delta: INTEGER
- align_delta_enum: STRING
- backplane_port_error_stats_dn: STRING
- deffered_transmitted_delta: INTEGER
- deffered_transmitted_delta_enum: STRING
- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- fcs_delta: INTEGER
- fcs_delta_enum: STRING
- io_module_dn: STRING
- io_module_id: STRING
- mac_received_delta: INTEGER
- mac_received_delta_enum: STRING

- mac_transmitted_delta: INTEGER
- mac_transmitted_delta_enum: STRING
- node: STRING
- out_discard_delta: INTEGER
- out_discard_delta_enum: STRING
- port_dn: STRING
- port_id: STRING
- receive_delta: INTEGER
- receive_delta_enum: STRING
- timestamp: STRING
- transmit_delta: INTEGER
- transmit_delta_enum: STRING
- under_size_delta: INTEGER
- under_size_delta_enum: STRING

For events that are generated by situations in the FEX Backplane Port Loss attribute group, events are sent by using the ITM_KV6_FEX_BACKPLANE_PORT_LOSS event class. This event class contains the following slots:

- backplane_port_loss_stats_dn: STRING
- carrier_sense_delta: INTEGER
- carrier_sense_delta_enum: STRING
- excess_collision_delta: INTEGER
- excess_collision_delta_enum: STRING
- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- giants_delta: INTEGER
- giants_delta_enum: STRING
- io_module_dn: STRING
- io_module_id: STRING
- late_collision_delta: INTEGER
- late_collision_delta_enum: STRING
- multi_collision_delta: INTEGER
- multi_collision_delta_enum: STRING
- node: STRING
- port_dn: STRING
- port_id: STRING
- single_collision_delta: INTEGER
- single_collision_delta_enum: STRING
- sqe_test_delta: INTEGER
- sqe_test_delta_enum: STRING
- symbol_delta: INTEGER
- symbol_delta_enum: STRING
- timestamp: STRING

For events that are generated by situations in the FEX Backplane Port Pause attribute group, events are sent by using the ITM_KV6_FEX_BACKPLANE_PORT_PAUSE event class. This event class contains the following slots:

- backplane_port_pause_stats_dn: STRING
- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- port_dn: STRING
- port_id: STRING
- recieve_pause_delta: INTEGER
- recieve_pause_delta_enum: STRING
- resets_delta: INTEGER
- resets_delta_enum: STRING
- timestamp: STRING
- transmitted_pause_delta: INTEGER
- transmitted_pause_delta_enum: STRING

For events that are generated by situations in the FEX Backplane Statistics attribute group, events are sent by using the ITM_KV6_FEX_BACKPLANE_STATISTICS event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- port_dn: STRING
- port_id: STRING
- received_broadcast_packets_delta: INTEGER
- received_broadcast_packets_delta_enum: STRING
- received_jumbo_packets_delta: INTEGER
- received_jumbo_packets_delta_enum: STRING
- received_multicast_packets_delta: INTEGER
- received_multicast_packets_delta_enum: STRING
- received_unicast_packets_delta: INTEGER
- received_unicast_packets_delta_enum: STRING
- rx_stats_dn: STRING
- timestamp: STRING
- total_received_bytes_delta: INTEGER
- total_received_bytes_delta_enum: STRING
- total_received_packets_delta: INTEGER
- total_received_packets_delta_enum: STRING
- total_transmitted_bytes_delta: INTEGER
- total_transmitted_bytes_delta_enum: STRING
- total_transmitted_packets_delta: INTEGER

- total_transmitted_packets_delta_enum: STRING
- transmitted_broadcast_packets_delta: INTEGER
- transmitted_broadcast_packets_delta_enum: STRING
- transmitted_jumbo_packets_delta: INTEGER
- transmitted_jumbo_packets_delta_enum: STRING
- transmitted_multicast_packets_delta: INTEGER
- transmitted_multicast_packets_delta_enum: STRING
- transmitted_unicast_packets_delta: INTEGER
- transmitted_unicast_packets_delta_enum: STRING
- tx_stats_dn: STRING

For events that are generated by situations in the FEX Environment Statistics attribute group, events are sent by using the ITM_KV6_FEX_ENVIRONMENT_STATISTICS event class. This event class contains the following slots:

- die1: REAL
- die1_enum: STRING
- environment_stats_dn: STRING
- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- inlet: REAL
- inlet1: REAL
- inlet1_enum: STRING
- inlet_enum: STRING
- node: STRING
- outlet1: REAL
- outlet1_enum: STRING
- outlet2: REAL
- outlet2_enum: STRING
- timestamp: STRING

For events that are generated by situations in the FEX Fabric Port Config attribute group, events are sent by using the ITM_KV6_FEX_FABRIC_PORT_CONFIG event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- iftype: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- peerdn: STRING
- port_dn: STRING
- port_id: STRING
- switchid: STRING
- timestamp: STRING
- transport: STRING
- type: STRING

For events that are generated by situations in the FEX Fan Configuration Details attribute group, events are sent by using the ITM_KV6_FEX_FAN_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- fan_dn: STRING
- fan_id: STRING
- model: STRING
- module: INTEGER
- module_enum: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- tray: INTEGER
- tray_enum: STRING
- vendor: STRING

For events that are generated by situations in the FEX Fan Health Summary attribute group, events are sent by using the ITM_KV6_FEX_FAN_HEALTH_SUMMARY event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- fan_dn: STRING
- fan_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- performance: STRING
- power: STRING
- presence: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the FEX Fan Speed Statistics attribute group, events are sent by using the ITM_KV6_FEX_FAN_SPEED_STATISTICS event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- fan_dn: STRING
- fan_id: STRING
- fan_speed: INTEGER

- fan_speed_enum: STRING
- fan_stats_dn: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the FEX Firmware attribute group, events are sent by using the ITM_KV6_FEX_FIRMWARE event class. This event class contains the following slots:

- boot_unit_operstate: STRING
- boot_unit_version: STRING
- deployment: STRING
- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- management_controller_dn: STRING
- node: STRING
- running_version: STRING
- subject: STRING
- timestamp: STRING
- update_operstate: STRING
- update_version: STRING

For events that are generated by situations in the FEX Health Summary attribute group, events are sent by using the ITM_KV6_FEX_HEALTH_SUMMARY event class. This event class contains the following slots:

- active_fans: INTEGER
- active_fans_enum: STRING
- active_fans_percentage: INTEGER
- active_fans_percentage_enum: STRING
- configuration_state: STRING
- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- faulty_fans: INTEGER
- faulty_fans_enum: STRING
- health: STRING
- model: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- power: STRING
- presence: STRING
- thermal: STRING
- timestamp: STRING
- total_fans: INTEGER
- total_fans_enum: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- vendor: STRING

For events that are generated by situations in the FEX IO Backplane Port Health attribute group, events are sent by using the ITM_KV6_FEX_IO_BACKPLANE_PORT_HEALTH event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- health: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- operstate: STRING
- port_dn: STRING
- port_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the FEX IO Fabric Port Health attribute group, events are sent by using the ITM_KV6_FEX_IO_FABRIC_PORT_HEALTH event class. This event class contains the following slots:

- ack: STRING
- discovery: STRING
- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- health: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- operstate: STRING
- port_dn: STRING
- port_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the FEX IO Module Configuration attribute group, events are sent by using the ITM_KV6_FEX_IO_MODULE_CONFIGURATION event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- io_module_dn: STRING
- io_module_id: STRING
- model: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- side: STRING

- switchid: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the FEX IO Module Health Summary attribute group, events are sent by using the ITM_KV6_FEX_IO_MODULE_HEALTH_SUMMARY event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- health: STRING
- io_module_dn: STRING
- io_module_id: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- presence: STRING
- serial: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the FEX IO Module Temperature attribute group, events are sent by using the ITM_KV6_FEX_IO_MODULE_TEMPERATURE event class. This event class contains the following slots:

- ambient_temperature: REAL
- ambient_temperature_enum: STRING
- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- io_module_dn: STRING
- io_module_id: STRING
- io_module_stats_dn: STRING
- node: STRING
- temperature: REAL
- temperature_enum: STRING
- timestamp: STRING

For events that are generated by situations in the FEX PSU Configuration Details attribute group, events are sent by using the ITM_KV6_FEX_PSU_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- model: STRING
- node: STRING
- psu_dn: STRING
- psu_id: INTEGER
- psu_id_enum: STRING

- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the FEX PSU Environment Statistics attribute group, events are sent by using the ITM_KV6_FEX_PSU_ENVIRONMENT_STATISTICS event class. This event class contains the following slots:

- current: REAL
- current_enum: STRING
- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- node: STRING
- power: REAL
- power_enum: STRING
- psu_dn: STRING
- psu_id: STRING
- psu_stats_dn: STRING
- timestamp: STRING
- voltage: REAL
- voltage_enum: STRING

For events that are generated by situations in the FEX PSU Health Summary attribute group, events are sent by using the ITM_KV6_FEX_PSU_HEALTH_SUMMARY event class. This event class contains the following slots:

- fabric_extender_dn: STRING
- fabric_extender_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- performance: STRING
- power: STRING
- presence: STRING
- psu_dn: STRING
- psu_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the FI Configuration Details attribute group, events are sent by using the ITM_KV6_FI_CONFIGURATION_DETAILS event class. This event class contains the following slots:

• fabric_interconnect_dn: STRING

- fabric_interconnect_id: STRING
- model: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- total_memory: INTEGER
- total_memory_enum: STRING
- vendor: STRING

For events that are generated by situations in the FI Fan Configuration Details attribute group, events are sent by using the ITM_KV6_FI_FAN_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- fan_dn: STRING
- fan_id: STRING
- model: STRING
- module: INTEGER
- module_enum: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the FI Fan Health Summary attribute group, events are sent by using the ITM_KV6_FI_FAN_HEALTH_SUMMARY event class. This event class contains the following slots:

- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- fan_dn: STRING
- fan_id: INTEGER
- fan_id_enum: STRING
- health: STRING
- node: STRING
- operability: STRING
- performance: STRING
- power: STRING
- presence: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the FI Fixed Expansion Configuration attribute group, events are sent by using the ITM_KV6_FI_FIXED_EXPANSION_CONFIGURATION event class. This event class contains the following slots:

- description: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- model: STRING
- node: STRING
- number_of_ports: INTEGER
- number_of_ports_enum: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- slot_dn: STRING
- slot_id: STRING
- slot_type: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the FI Fixed Expansion Port Health attribute group, events are sent by using the ITM_KV6_FI_FIXED_EXPANSION_PORT_HEALTH event class. This event class contains the following slots:

- chassis_id: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- health: STRING
- network_type: STRING
- node: STRING
- operstate: STRING
- port_dn: STRING
- port_id: STRING
- port_role: STRING
- slot_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- transport_type: STRING

For events that are generated by situations in the FI Hardware Firmware attribute group, events are sent by using the ITM_KV6_FI_HARDWARE_FIRMWARE event class. This event class contains the following slots:

- bootloader_version: STRING
- deployment: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- kernel_deployment: STRING
- kernel_operstate: STRING
- kernel_type: STRING
- kernel_version: STRING
- management_controller_dn: STRING
- node: STRING
- package_version: STRING
- startup_kernel_version: STRING
- startup_system_version: STRING
- system_deployment: STRING
- system_operstate: STRING
- system_type: STRING
- system_version: STRING
- timestamp: STRING

For events that are generated by situations in the FI Health Summary attribute group, events are sent by using the ITM_KV6_FI_HEALTH_SUMMARY event class. This event class contains the following slots:

- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- health: STRING
- leadership: STRING
- node: STRING
- port_utilization: INTEGER
- port_utilization_enum: STRING
- state: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the FI LAN Error Statistics attribute group, events are sent by using the ITM_KV6_FI_LAN_ERROR_STATISTICS event class. This event class contains the following slots:

- align_delta: INTEGER
- align_delta_enum: STRING
- deffered_transmitted_delta: INTEGER
- deffered_transmitted_delta_enum: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- fcs_delta: INTEGER
- fcs_delta_enum: STRING
- mac_received_delta: INTEGER
- mac_received_delta_enum: STRING
- mac_transmitted_delta: INTEGER
- mac_transmitted_delta_enum: STRING
- node: STRING
- out_discard_delta: INTEGER
- out_discard_delta_enum: STRING
- port_dn: STRING

- port_error_stats_dn: STRING
- port_id: STRING
- receive_delta: INTEGER
- receive_delta_enum: STRING
- timestamp: STRING
- transmit_delta: INTEGER
- transmit_delta_enum: STRING
- under_size_delta: INTEGER
- under_size_delta_enum: STRING

For events that are generated by situations in the FI LAN Hist Statistics attribute group, events are sent by using the ITM_KV6_FI_LAN_HIST_STATISTICS event class. This event class contains the following slots:

- ether_received_stats_dn: STRING
- ether_transmitted_stats_dn: STRING
- node: STRING
- port_dn: STRING
- port_id: STRING
- received_broadcast_packets_delta: INTEGER
- received_broadcast_packets_delta_enum: STRING
- received_jumbo_packets_delta: INTEGER
- received_jumbo_packets_delta_enum: STRING
- received_multicast_packets_delta: INTEGER
- received_multicast_packets_delta_enum: STRING
- received_unicast_packets_delta: INTEGER
- received_unicast_packets_delta_enum: STRING
- timestamp: STRING
- total_received_bytes: REAL
- total_received_bytes_delta: REAL
- total_received_bytes_delta_avg: REAL
- total_received_bytes_delta_avg_enum: STRING
- total_received_bytes_delta_enum: STRING
- total_received_bytes_delta_max: REAL
- total_received_bytes_delta_max_enum: STRING
- total_received_bytes_delta_min: REAL
- total_received_bytes_delta_min_enum: STRING
- total_received_bytes_enum: STRING
- total_received_packets_delta: REAL
- total_received_packets_delta_enum: STRING
- total_transmitted_bytes: REAL
- total_transmitted_bytes_delta: REAL
- total_transmitted_bytes_delta_avg: REAL
- total_transmitted_bytes_delta_avg_enum: STRING
- total_transmitted_bytes_delta_enum: STRING
- total_transmitted_bytes_delta_max: REAL
- total_transmitted_bytes_delta_max_enum: STRING

- total_transmitted_bytes_delta_min: REAL
- total_transmitted_bytes_delta_min_enum: STRING
- total_transmitted_bytes_enum: STRING
- total_transmitted_packets_delta: REAL
- total_transmitted_packets_delta_enum: STRING
- transmitted_broadcast_packets_delta: INTEGER
- transmitted_broadcast_packets_delta_enum: STRING
- transmitted_jumbo_packets_delta: INTEGER
- transmitted_jumbo_packets_delta_enum: STRING
- transmitted_multicast_packets_delta: INTEGER
- transmitted_multicast_packets_delta_enum: STRING
- transmitted_unicast_packets_delta: INTEGER
- transmitted_unicast_packets_delta_enum: STRING

For events that are generated by situations in the FI LAN Loss Statistics attribute group, events are sent by using the ITM_KV6_FI_LAN_LOSS_STATISTICS event class. This event class contains the following slots:

- carrier_sense_delta: INTEGER
- carrier_sense_delta_enum: STRING
- excess_collision_delta: INTEGER
- excess_collision_delta_enum: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- giants_delta: INTEGER
- giants_delta_enum: STRING
- late_collision_delta: INTEGER
- late_collision_delta_enum: STRING
- multi_collision_delta: INTEGER
- multi_collision_delta_enum: STRING
- node: STRING
- port_dn: STRING
- port_id: STRING
- port_loss_stats_dn: STRING
- single_collision_delta: INTEGER
- single_collision_delta_enum: STRING
- sqe_test_delta: INTEGER
- sqe_test_delta_enum: STRING
- symbol_delta: INTEGER
- symbol_delta_enum: STRING
- timestamp: STRING

For events that are generated by situations in the FI LAN Pause Statistics attribute group, events are sent by using the ITM_KV6_FI_LAN_PAUSE_STATISTICS event class. This event class contains the following slots:

- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING

- node: STRING
- port_dn: STRING
- port_id: STRING
- port_pause_stats_dn: STRING
- recieve_pause_delta: INTEGER
- recieve_pause_delta_enum: STRING
- resets_delta: INTEGER
- resets_delta_enum: STRING
- timestamp: STRING
- transmitted_pause_delta: INTEGER
- transmitted_pause_delta_enum: STRING

For events that are generated by situations in the FI LAN Port Channel Aggregate Statistics attribute group, events are sent by using the ITM_KV6_FI_LAN_PORT_CHANNEL_AGGREGATE_STATISTICS event class. This event class contains the following slots:

- locale: STRING
- node: STRING
- port_channel_dn: STRING
- timestamp: STRING
- total_received_bytes_delta: REAL
- total_received_bytes_delta_avg: REAL
- total_received_bytes_delta_avg_enum: STRING
- total_received_bytes_delta_enum: STRING
- total_received_packets_delta: REAL
- total_received_packets_delta_avg: REAL
- total_received_packets_delta_avg_enum: STRING
- total_received_packets_delta_enum: STRING
- total_transmitted_bytes_delta: REAL
- total_transmitted_bytes_delta_avg: REAL
- total_transmitted_bytes_delta_avg_enum: STRING
- total_transmitted_bytes_delta_enum: STRING
- total_transmitted_packets_delta: REAL
- total_transmitted_packets_delta_avg: REAL
- total_transmitted_packets_delta_avg_enum: STRING
- total_transmitted_packets_delta_enum: STRING

For events that are generated by situations in the FI LAN Port Channel Statistics attribute group, events are sent by using the ITM_KV6_FI_LAN_PORT_CHANNEL_STATISTICS event class. This event class contains the following slots:

- adminstate: STRING
- ether_received_stats_dn: STRING
- ether_transmitted_stats_dn: STRING
- fabric_interconnect_id: STRING
- locale: STRING
- node: STRING
- oper_state: STRING

- port_channel_dn: STRING
- port_channel_epdn: STRING
- port_channel_peer_dn: STRING
- port_dn: STRING
- port_id: STRING
- received_broadcast_packets_delta: INTEGER
- received_broadcast_packets_delta_enum: STRING
- received_jumbo_packets_delta: INTEGER
- received_jumbo_packets_delta_enum: STRING
- received_multicast_packets_delta: INTEGER
- received_multicast_packets_delta_enum: STRING
- received_unicast_packets_delta: INTEGER
- received_unicast_packets_delta_enum: STRING
- timestamp: STRING
- total_received_bytes: REAL
- total_received_bytes_delta: REAL
- total_received_bytes_delta_avg: REAL
- total_received_bytes_delta_avg_enum: STRING
- total_received_bytes_delta_enum: STRING
- total_received_bytes_delta_max: REAL
- total_received_bytes_delta_max_enum: STRING
- total_received_bytes_delta_min: REAL
- total_received_bytes_delta_min_enum: STRING
- total_received_bytes_enum: STRING
- total_received_packets_delta: REAL
- total_received_packets_delta_enum: STRING
- total_transmitted_bytes: REAL
- total_transmitted_bytes_delta: REAL
- total_transmitted_bytes_delta_avg: REAL
- total_transmitted_bytes_delta_avg_enum: STRING
- total_transmitted_bytes_delta_enum: STRING
- total_transmitted_bytes_delta_max: REAL
- total_transmitted_bytes_delta_max_enum: STRING
- total_transmitted_bytes_delta_min: REAL
- total_transmitted_bytes_delta_min_enum: STRING
- total_transmitted_bytes_enum: STRING
- total_transmitted_packets_delta: REAL
- total_transmitted_packets_delta_enum: STRING
- transmitted_broadcast_packets_delta: INTEGER
- transmitted_broadcast_packets_delta_enum: STRING
- transmitted_jumbo_packets_delta: INTEGER
- transmitted_jumbo_packets_delta_enum: STRING
- transmitted_multicast_packets_delta: INTEGER
- transmitted_multicast_packets_delta_enum: STRING
- transmitted_unicast_packets_delta: INTEGER

• transmitted_unicast_packets_delta_enum: STRING

For events that are generated by situations in the FI LAN Statistics attribute group, events are sent by using the ITM_KV6_FI_LAN_STATISTICS event class. This event class contains the following slots:

- ether_received_stats_dn: STRING
- ether_transmitted_stats_dn: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- node: STRING
- port_dn: STRING
- port_id: STRING
- received_broadcast_packets_delta: INTEGER
- received_broadcast_packets_delta_enum: STRING
- received_jumbo_packets_delta: INTEGER
- received_jumbo_packets_delta_enum: STRING
- received_multicast_packets_delta: INTEGER
- received_multicast_packets_delta_enum: STRING
- received_unicast_packets_delta: INTEGER
- received_unicast_packets_delta_enum: STRING
- timestamp: STRING
- total_received_bytes_delta: INTEGER
- total_received_bytes_delta_enum: STRING
- total_received_packets_delta: INTEGER
- total_received_packets_delta_enum: STRING
- total_transmitted_bytes_delta: INTEGER
- total_transmitted_bytes_delta_enum: STRING
- total_transmitted_packets_delta: INTEGER
- total_transmitted_packets_delta_enum: STRING
- transmitted_broadcast_packets_delta: INTEGER
- transmitted_broadcast_packets_delta_enum: STRING
- transmitted_jumbo_packets_delta: INTEGER
- transmitted_jumbo_packets_delta_enum: STRING
- transmitted_multicast_packets_delta: INTEGER
- transmitted_multicast_packets_delta_enum: STRING
- transmitted_unicast_packets_delta: INTEGER
- transmitted_unicast_packets_delta_enum: STRING

For events that are generated by situations in the FI Port Summary attribute group, events are sent by using the ITM_KV6_FI_PORT_SUMMARY event class. This event class contains the following slots:

- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- fcoe_storage_ports: INTEGER
- fcoe_storage_ports_enum: STRING
- node: STRING
- server_ports: INTEGER
- server_ports_enum: STRING

- timestamp: STRING
- unconfigured_ethernet_ports: INTEGER
- unconfigured_ethernet_ports_enum: STRING
- uplink_ethernet_ports: INTEGER
- uplink_ethernet_ports_enum: STRING
- uplink_fc_ports: INTEGER
- uplink_fc_ports_enum: STRING

For events that are generated by situations in the FI Port Usage attribute group, events are sent by using the ITM_KV6_FI_PORT_USAGE event class. This event class contains the following slots:

- chassis_dn: STRING
- chassis_id: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- node: STRING
- ports_used: INTEGER
- ports_used_enum: STRING
- timestamp: STRING

For events that are generated by situations in the FI PSU Configuration Details attribute group, events are sent by using the ITM_KV6_FI_PSU_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- model: STRING
- node: STRING
- psu_dn: STRING
- psu_id: INTEGER
- psu_id_enum: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the FI PSU Health Summary attribute group, events are sent by using the ITM_KV6_FI_PSU_HEALTH_SUMMARY event class. This event class contains the following slots:

- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- performance: STRING
- power: STRING
- presence: STRING
- psu_dn: STRING

- psu_id: INTEGER
- psu_id_enum: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the FI PSU Statistics attribute group, events are sent by using the ITM_KV6_FI_PSU_STATISTICS event class. This event class contains the following slots:

- current: REAL
- current_enum: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- node: STRING
- power: INTEGER
- power_enum: STRING
- psu_dn: STRING
- psu_id: STRING
- psu_input_stats_dn: STRING
- timestamp: STRING
- voltage: REAL
- voltage_enum: STRING

For events that are generated by situations in the FI SAN Error Statistics attribute group, events are sent by using the ITM_KV6_FI_SAN_ERROR_STATISTICS event class. This event class contains the following slots:

- crc_received_delta: INTEGER
- crc_received_delta_enum: STRING
- discard_received_delta: INTEGER
- discard_received_delta_enum: STRING
- discard_transmitted_delta: INTEGER
- discard_transmitted_delta_enum: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- fiber_channel_error_stats_dn: STRING
- link_failures_delta: INTEGER
- link_failures_delta_enum: STRING
- node: STRING
- port_dn: STRING
- port_id: STRING
- received_delta: INTEGER
- received_delta_enum: STRING
- signal_losses_delta: INTEGER
- signal_losses_delta_enum: STRING
- synchronized_losses_delta: INTEGER

- synchronized_losses_delta_enum: STRING
- timestamp: STRING
- too_long_received_delta: INTEGER
- too_long_received_delta_enum: STRING
- too_short_received_delta: INTEGER
- too_short_received_delta_enum: STRING
- transmitted_delta: INTEGER
- transmitted_delta_enum: STRING

For events that are generated by situations in the FI SAN Hist Statistics attribute group, events are sent by using the ITM_KV6_FI_SAN_HIST_STATISTICS event class. This event class contains the following slots:

- fc_stats_dn: STRING
- node: STRING
- port_dn: STRING
- port_id: STRING
- received_bytes: REAL
- received_bytes_delta: REAL
- received_bytes_delta_avg: REAL
- received_bytes_delta_avg_enum: STRING
- received_bytes_delta_enum: STRING
- received_bytes_delta_max: REAL
- received_bytes_delta_max_enum: STRING
- received_bytes_delta_min: REAL
- received_bytes_delta_min_enum: STRING
- received_bytes_enum: STRING
- received_packets: INTEGER
- received_packets_delta: INTEGER
- received_packets_delta_avg: INTEGER
- received_packets_delta_avg_enum: STRING
- received_packets_delta_enum: STRING
- received_packets_delta_max: INTEGER
- received_packets_delta_max_enum: STRING
- received_packets_delta_min: REAL
- received_packets_delta_min_enum: STRING
- received_packets_enum: STRING
- timestamp: STRING
- transmitted_bytes: REAL
- transmitted_bytes_delta: REAL
- transmitted_bytes_delta_avg: REAL
- transmitted_bytes_delta_avg_enum: STRING
- transmitted_bytes_delta_enum: STRING
- transmitted_bytes_delta_max: REAL
- transmitted_bytes_delta_max_enum: STRING
- transmitted_bytes_delta_min: REAL
- transmitted_bytes_delta_min_enum: STRING

- transmitted_bytes_enum: STRING
- transmitted_packets: INTEGER
- transmitted_packets_delta: INTEGER
- transmitted_packets_delta_avg: INTEGER
- transmitted_packets_delta_avg_enum: STRING
- transmitted_packets_delta_enum: STRING
- transmitted_packets_delta_max: INTEGER
- transmitted_packets_delta_max_enum: STRING
- transmitted_packets_delta_min: REAL
- transmitted_packets_delta_min_enum: STRING
- transmitted_packets_enum: STRING

For events that are generated by situations in the FI SAN Port Channel Aggregate Statistics attribute group, events are sent by using the ITM_KV6_FI_SAN_PORT_CHANNEL_AGGREGATE_STATISTICS event class. This event class contains the following slots:

- locale: STRING
- node: STRING
- port_channel_dn: STRING
- timestamp: STRING
- total_received_bytes_delta: REAL
- total_received_bytes_delta_avg: REAL
- total_received_bytes_delta_avg_enum: STRING
- total_received_bytes_delta_enum: STRING
- total_received_packets_delta: REAL
- total_received_packets_delta_avg: REAL
- total_received_packets_delta_avg_enum: STRING
- total_received_packets_delta_enum: STRING
- total_transmitted_bytes_delta: REAL
- total_transmitted_bytes_delta_avg: REAL
- total_transmitted_bytes_delta_avg_enum: STRING
- total_transmitted_bytes_delta_enum: STRING
- total_transmitted_packets_delta: REAL
- total_transmitted_packets_delta_avg: REAL
- total_transmitted_packets_delta_avg_enum: STRING
- total_transmitted_packets_delta_enum: STRING

For events that are generated by situations in the FI SAN Port Channel Statistics attribute group, events are sent by using the ITM_KV6_FI_SAN_PORT_CHANNEL_STATISTICS event class. This event class contains the following slots:

- adminstate: STRING
- fabric_interconnect_id: STRING
- fc_stats_dn: STRING
- locale: STRING
- node: STRING
- oper_state: STRING
- port_channel_dn: STRING

- port_channel_epdn: STRING
- port_channel_peer_dn: STRING
- port_dn: STRING
- port_id: STRING
- received_bytes: REAL
- received_bytes_delta: REAL
- received_bytes_delta_avg: REAL
- received_bytes_delta_avg_enum: STRING
- received_bytes_delta_enum: STRING
- received_bytes_delta_max: REAL
- received_bytes_delta_max_enum: STRING
- received_bytes_delta_min: REAL
- received_bytes_delta_min_enum: STRING
- received_bytes_enum: STRING
- received_packets: INTEGER
- received_packets_delta: INTEGER
- received_packets_delta_avg: INTEGER
- received_packets_delta_avg_enum: STRING
- received_packets_delta_enum: STRING
- received_packets_delta_max: INTEGER
- received_packets_delta_max_enum: STRING
- received_packets_delta_min: REAL
- received_packets_delta_min_enum: STRING
- received_packets_enum: STRING
- timestamp: STRING
- transmitted_bytes: REAL
- transmitted_bytes_delta: REAL
- transmitted_bytes_delta_avg: REAL
- transmitted_bytes_delta_avg_enum: STRING
- transmitted_bytes_delta_enum: STRING
- transmitted_bytes_delta_max: REAL
- transmitted_bytes_delta_max_enum: STRING
- transmitted_bytes_delta_min: REAL
- transmitted_bytes_delta_min_enum: STRING
- transmitted_bytes_enum: STRING
- transmitted_packets: INTEGER
- transmitted_packets_delta: INTEGER
- transmitted_packets_delta_avg: INTEGER
- transmitted_packets_delta_avg_enum: STRING
- transmitted_packets_delta_enum: STRING
- transmitted_packets_delta_max: INTEGER
- transmitted_packets_delta_max_enum: STRING
- transmitted_packets_delta_min: REAL
- transmitted_packets_delta_min_enum: STRING
- transmitted_packets_enum: STRING

For events that are generated by situations in the FI SAN Statistics attribute group, events are sent by using the ITM_KV6_FI_SAN_STATISTICS event class. This event class contains the following slots:

- bytes_received_delta: INTEGER
- bytes_received_delta_enum: STRING
- bytes_transmitted_delta: INTEGER
- bytes_transmitted_delta_enum: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- fiber_channel_stats_dn: STRING
- node: STRING
- packets_received_delta: INTEGER
- packets_received_delta_enum: STRING
- packets_transmitted_delta: INTEGER
- packets_transmitted_delta_enum: STRING
- port_dn: STRING
- port_id: STRING
- timestamp: STRING

For events that are generated by situations in the FI System Statistics attribute group, events are sent by using the ITM_KV6_FI_SYSTEM_STATISTICS event class. This event class contains the following slots:

- available_memory: INTEGER
- available_memory_enum: STRING
- cached_memory: INTEGER
- cached_memory_enum: STRING
- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- load: REAL
- load_enum: STRING
- node: STRING
- timestamp: STRING
- total_memory: INTEGER
- total_memory_enum: STRING

For events that are generated by situations in the FI Temperature Statistics attribute group, events are sent by using the ITM_KV6_FI_TEMPERATURE_STATISTICS event class. This event class contains the following slots:

- fabric_interconnect_dn: STRING
- fabric_interconnect_id: STRING
- fan_controller_inlet1: REAL
- fan_controller_inlet1_enum: STRING
- fan_controller_inlet2: REAL
- fan_controller_inlet2_enum: STRING
- fan_controller_inlet3: REAL
- fan_controller_inlet3_enum: STRING
- fan_controller_inlet4: REAL
- fan_controller_inlet4_enum: STRING

- main_board_outlet1: REAL
- main_board_outlet1_enum: STRING
- main_board_outlet2: REAL
- main_board_outlet2_enum: STRING
- node: STRING
- psu_controller_inlet1: REAL
- psu_controller_inlet1_enum: STRING
- psu_controller_inlet2: REAL
- psu_controller_inlet2_enum: STRING
- timestamp: STRING

For events that are generated by situations in the MAC Pool Details attribute group, events are sent by using the ITM_KV6_MAC_POOL_DETAILS event class. This event class contains the following slots:

- assigned: INTEGER
- assigned_enum: STRING
- health: STRING
- mac_pool_dn: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- size: INTEGER
- size_enum: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- utilization: INTEGER
- utilization_enum: STRING

For events that are generated by situations in the Performance Object Status attribute group, events are sent by using the ITM_KV6_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- average_collection_duration: REAL
- average_collection_duration_enum: STRING
- cache_hits: INTEGER
- cache_hit_percent: REAL
- cache_misses: INTEGER
- error_code: INTEGER
- error_code_enum: STRING
- intervals_skipped: INTEGER
- last_collection_duration: REAL
- last_collection_finished: STRING
- last_collection_finished_enum: STRING
- last_collection_start: STRING
- last_collection_start_enum: STRING
- node: STRING
- number_of_collections: INTEGER

- object_name: STRING
- object_status: INTEGER
- object_status_enum: STRING
- object_type: INTEGER
- object_type_enum: STRING
- query_name: STRING
- refresh_interval: INTEGER
- timestamp: STRING

For events that are generated by situations in the Policy BIOS Advanced Configurations attribute group, events are sent by using the ITM_KV6_POLICY_BIOS_ADVANCED_CONFIGURATIONS event class. This event class contains the following slots:

- bios_policy_dn: STRING
- descr: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- timestamp: STRING
- vpcoremultiprocessing: STRING
- vpcpuperformance: STRING
- vpdirectcacheaccess: STRING
- vpenhancedintelspeedsteptech: STRING
- vpexecutedisablebit: STRING
- vpintelhyperthreadingtech: STRING
- vpintelturboboosttech: STRING
- vpintelvirtualizationtechnology: STRING
- vpintelvtdatssupport: STRING
- vpintelvtdcoherencysupport: STRING
- vpintelvtdinterruptremapping: STRING
- vpintelvtdpassthroughdmasupport: STRING
- vpintelvtfordirectedio: STRING
- vplvddrmode: STRING
- vpmakedevicenonbootable: STRING
- vpmaximummemorybelow4gb: STRING
- vpmemorymappedioabove4gb: STRING
- vpmirroringmode: STRING
- vpnumaoptimized: STRING
- vpprocessorc3report: STRING
- vpprocessorc6report: STRING
- vpselectmemoryrasconfiguration: STRING
- vpserialportaenable: STRING
- vpsparingmode: STRING

For events that are generated by situations in the Policy BIOS Configuration Summary attribute group, events are sent by using the ITM_KV6_POLICY_BIOS_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- bios_policy_dn: STRING
- descr: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- rebootonupdate: STRING
- timestamp: STRING
- vpacpi10support: STRING
- vpfrontpanellockout: STRING
- vpposterrorpause: STRING
- vpquietboot: STRING
- vpresumeonacpowerloss: STRING

For events that are generated by situations in the Policy BIOS Configurations attribute group, events are sent by using the ITM_KV6_POLICY_BIOS_CONFIGURATIONS event class. This event class contains the following slots:

- bios_policy_dn: STRING
- descr: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- timestamp: STRING
- vpassertnmionperr: STRING
- vpassertnmionserr: STRING
- vpbaudrate: STRING
- vpbootoptionretry: STRING
- vpconsoleredirection: STRING
- vpflowcontrol: STRING
- vplegacyosredirection: STRING
- vposbootwatchdogtimerpolicy: STRING
- vpsasraid: STRING
- vpsasraidmodule: STRING
- vpterminaltype: STRING

For events that are generated by situations in the Policy Boot Configuration Summary attribute group, events are sent by using the ITM_KV6_POLICY_BOOT_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- boot_policy_dn: STRING
- descr: STRING
- enforcevnicname: STRING
- node: STRING
- org_root_dn: STRING
- rebootonupdate: STRING
- timestamp: STRING

For events that are generated by situations in the Policy Boot Order Configuration Details attribute group, events are sent by using the ITM_KV6_POLICY_BOOT_ORDER_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- boot_policy_dn: STRING
- component: STRING
- component_dn: STRING
- lun: STRING
- node: STRING
- org_root_dn: STRING
- parent_dn: STRING
- target_type: STRING
- timestamp: STRING
- type: STRING
- vnicname: STRING
- wwn: STRING

For events that are generated by situations in the Policy IPMI Access Profile Configuration Summary attribute group, events are sent by using the

ITM_KV6_POLICY_IPMI_ACCESS_PROFILE_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- descr: STRING
- ipmi_policy_dn: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Policy IPMI User Configuration Details attribute group, events are sent by using the ITM_KV6_POLICY_IPMI_USER_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- descr: STRING
- ipmi_policy_dn: STRING
- ipmi_user_dn: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- priv: STRING
- pwdset: STRING
- timestamp: STRING

For events that are generated by situations in the Policy iSCSI Boot Order Configuration Summary attribute group, events are sent by using the

ITM_KV6_POLICY_ISCSI_BOOT_ORDER_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- boot_policy_dn: STRING
- iscsi_boot_dn: STRING
- node: STRING
- order: STRING

- org_root_dn: STRING
- timestamp: STRING
- type: STRING

For events that are generated by situations in the Policy iSCSI Static Target Interface Configuration Details attribute group, events are sent by using the ITM_KV6_POLICY_ISCSI_STATIC_TARGET_INTERFACE_CONFIGURATION_DETAILS event class. This event class contains the following slots:

• authprofilename: STRING

- id: STRING
- ipaddress: STRING
- iscsi_boot_static_target_dn: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- parent_dn: STRING
- port: STRING
- priority: STRING
- timestamp: STRING

For events that are generated by situations in the Policy iSCSI vNIC Configuration Summary attribute group, events are sent by using the ITM_KV6_POLICY_ISCSI_VNIC_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- adaptorprofilename: STRING
- addr: STRING
- authprofilename: STRING
- defgw: STRING
- dhcpvendorid: STRING
- initiatorname: STRING
- iscsi_vnic_dn: STRING
- mac_addr: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- primdns: STRING
- secdns: STRING
- service_profile_dn: STRING
- subnet: STRING
- timestamp: STRING
- vlanname: STRING
- vnicname: STRING

For events that are generated by situations in the Policy LAN Boot Order Configuration Summary attribute group, events are sent by using the

ITM_KV6_POLICY_LAN_BOOT_ORDER_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- boot_policy_dn: STRING
- lan_boot_dn: STRING

- node: STRING
- order: STRING
- org_root_dn: STRING
- timestamp: STRING
- type: STRING

For events that are generated by situations in the Policy QoS Configuration Details attribute group, events are sent by using the ITM_KV6_POLICY_QOS_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- burst: STRING
- hostcontrl: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- prio: STRING
- qos_policy_dn: STRING
- rate: STRING
- timestamp: STRING

For events that are generated by situations in the Policy Scrub Configuration Details attribute group, events are sent by using the ITM_KV6_POLICY_SCRUB_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- biossettingsscrub: STRING
- descr: STRING
- diskscrub: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- scrub_policy_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Policy Serial Over LAN Configuration Details attribute group, events are sent by using the ITM_KV6_POLICY_SERIAL_OVER_LAN_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- adminstate: STRING
- descr: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- serial_over_lan_policy_dn: STRING
- service_profile_dn: STRING
- speed: INTEGER
- speed_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Policy Storage Boot Order Configuration Summary attribute group, events are sent by using the

ITM_KV6_POLICY_STORAGE_BOOT_ORDER_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- boot_policy_dn: STRING
- node: STRING
- order: STRING
- org_root_dn: STRING
- storage_boot_dn: STRING
- timestamp: STRING
- type: STRING

For events that are generated by situations in the Policy Virtual Host Interface Configuration Details attribute group, events are sent by using the

ITM_KV6_POLICY_VIRTUAL_HOST_INTERFACE_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- id: STRING
- node: STRING
- org_root_dn: STRING
- select: STRING
- timestamp: STRING
- transport: STRING
- virtual_host_interface_dn: STRING
- vnic_vhba_placement_policy_dn: STRING

For events that are generated by situations in the Policy Virtual Media Boot Order Configuration Details attribute group, events are sent by using the

ITM_KV6_POLICY_VIRTUAL_MEDIA_BOOT_ORDER_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- boot_policy_dn: STRING
- node: STRING
- order: STRING
- org_root_dn: STRING
- timestamp: STRING
- type: STRING
- virtual_media_boot_dn: STRING

For events that are generated by situations in the Policy vNICvHBA Placement Configuration Summary attribute group, events are sent by using the

ITM_KV6_POLICY_VNICVHBA_PLACEMENT_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- descr: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- timestamp: STRING
- vnic_vhba_placement_policy_dn: STRING

For events that are generated by situations in the Pool Initiator Configuration Details attribute group, events are sent by using the ITM_KV6_POOL_INITIATOR_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- assigned: STRING
- assignedtodn: STRING
- id: STRING
- initiator_dn: STRING
- lun: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- timestamp: STRING
- wwn: STRING
- wwn_pool_dn: STRING

For events that are generated by situations in the Pool MAC Address Configuration Details attribute group, events are sent by using the ITM_KV6_POOL_MAC_ADDRESS_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- from: STRING
- mac_address_dn: STRING
- mac_pool_dn: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- timestamp: STRING
- to: STRING

For events that are generated by situations in the Pool MAC Configuration Details attribute group, events are sent by using the ITM_KV6_POOL_MAC_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- assigned: STRING
- assignedtodn: STRING
- id: STRING
- mac_dn: STRING
- mac_pool_dn: STRING
- node: STRING
- org_root_dn: STRING
- poolabledn: STRING
- timestamp: STRING

For events that are generated by situations in the Pool Server Configuration Details attribute group, events are sent by using the ITM_KV6_POOL_SERVER_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- assigned: STRING
- assignedtodn: STRING
- chassisid: STRING
- id: STRING
- name: STRING

- node: STRING
- org_root_dn: STRING
- server_dn: STRING
- server_pool_dn: STRING
- slotid: STRING
- timestamp: STRING

For events that are generated by situations in the Pool UUID Block Configuration Details attribute group, events are sent by using the ITM_KV6_POOL_UUID_BLOCK_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- from: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- timestamp: STRING
- to: STRING
- uuid_block_dn: STRING
- uuid_suffix_pool_dn: STRING

For events that are generated by situations in the Pool UUID Suffix Configuration Details attribute group, events are sent by using the ITM_KV6_POOL_UUID_SUFFIX_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- assigned: STRING
- assignedtodn: STRING
- id: STRING
- node: STRING
- org_root_dn: STRING
- prevassignedtodn: STRING
- timestamp: STRING
- uuid_suffix_dn: STRING
- uuid_suffix_pool_dn: STRING

For events that are generated by situations in the Pool WWN Initiator Block Configuration Details attribute group, events are sent by using the ITM KV6 POOL WWN INITIATOR BLOCK CONFIGURATION DETAILS event class. This event class

ITM_KV6_POOL_WWN_INITIATOR_BLOCK_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- from: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- timestamp: STRING
- to: STRING
- wwn_initiator_block_pool_dn: STRING
- wwn_pool_dn: STRING

For events that are generated by situations in the RM Server Adapter Configuration attribute group, events are sent by using the ITM_KV6_RM_SERVER_ADAPTER_CONFIGURATION event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- model: STRING
- node: STRING
- pcislot: INTEGER
- pcislot_enum: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the RM Server Adapter Health Summary attribute group, events are sent by using the ITM_KV6_RM_SERVER_ADAPTER_HEALTH_SUMMARY event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the RM Server BIOS Firmware attribute group, events are sent by using the ITM_KV6_RM_SERVER_BIOS_FIRMWARE event class. This event class contains the following slots:

- bios_dn: STRING
- node: STRING
- package_version: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- vendor: STRING
- version: STRING

For events that are generated by situations in the RM Server Configuration Details attribute group, events are sent by using the ITM_KV6_RM_SERVER_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- assigned_to: STRING
- model: STRING
- node: STRING

- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- slot_id: STRING
- timestamp: STRING
- uuid: STRING
- vendor: STRING

For events that are generated by situations in the RM Server CPU Configuration attribute group, events are sent by using the ITM_KV6_RM_SERVER_CPU_CONFIGURATION event class. This event class contains the following slots:

- cores_enabled: INTEGER
- cores_enabled_enum: STRING
- cpu_dn: STRING
- cpu_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- number_of_cores: INTEGER
- number_of_cores_enum: STRING
- processor_architecture: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- socket_designation: STRING
- speed: REAL
- speed_enum: STRING
- stepping: INTEGER
- stepping_enum: STRING
- threads: INTEGER
- threads_enum: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the RM Server CPU Health Summary attribute group, events are sent by using the ITM_KV6_RM_SERVER_CPU_HEALTH_SUMMARY event class. This event class contains the following slots:

- cpu_dn: STRING
- cpu_id: STRING
- health: STRING
- motherboard_dn: STRING
- node: STRING

- operability: STRING
- power: STRING
- presence: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the RM Server CPU Statistics attribute group, events are sent by using the ITM_KV6_RM_SERVER_CPU_STATISTICS event class. This event class contains the following slots:

- cpu_dn: STRING
- cpu_environment_stats_dn: STRING
- cpu_id: STRING
- input_current: REAL
- input_current_enum: STRING
- motherboard_dn: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- temperature: REAL
- temperature_enum: STRING
- timestamp: STRING

For events that are generated by situations in the RM Server DCE Interface Health attribute group, events are sent by using the ITM_KV6_RM_SERVER_DCE_INTERFACE_HEALTH event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- dce_interface_dn: STRING
- dce_interface_id: STRING
- health: STRING
- mac: STRING
- name: STRING
- node: STRING
- peerdn: STRING
- purpose: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- side: STRING
- switchid: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

• type: STRING

For events that are generated by situations in the RM Server Disk Configuration attribute group, events are sent by using the ITM_KV6_RM_SERVER_DISK_CONFIGURATION event class. This event class contains the following slots:

- block_size: STRING
- connection_protocol: STRING
- disk_dn: STRING
- disk_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- number_of_blocks: INTEGER
- number_of_blocks_enum: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- size: INTEGER
- size_enum: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the RM Server Disk Health Summary attribute group, events are sent by using the ITM_KV6_RM_SERVER_DISK_HEALTH_SUMMARY event class. This event class contains the following slots:

- disk_dn: STRING
- disk_id: STRING
- health: STRING
- motherboard_dn: STRING
- node: STRING
- operability: STRING
- presence: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the RM Server Ether Port Comm attribute group, events are sent by using the ITM_KV6_RM_SERVER_ETHER_PORT_COMM event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING

- adapter_type: STRING
- broadcast_packets_delta: INTEGER
- broadcast_packets_delta_enum: STRING
- card_dn: STRING
- card_id: STRING
- ether_port_mcast_stats_dn: STRING
- multicast_packets_delta: INTEGER
- multicast_packets_delta_enum: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- traffic_direction: STRING
- unicast_packets_delta: INTEGER
- unicast_packets_delta_enum: STRING

For events that are generated by situations in the RM Server Ether Port Error attribute group, events are sent by using the ITM_KV6_RM_SERVER_ETHER_PORT_ERROR event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- bad_crc_packets_delta: INTEGER
- bad_crc_packets_delta_enum: STRING
- bad_length_packets_delta: INTEGER
- bad_length_packets_delta_enum: STRING
- card_dn: STRING
- card_id: STRING
- ether_port_error_stats_dn: STRING
- mac_discard_packets_delta: INTEGER
- mac_discard_packets_delta_enum: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- traffic_direction: STRING

For events that are generated by situations in the RM Server Ether Port Large attribute group, events are sent by using the ITM_KV6_RM_SERVER_ETHER_PORT_LARGE event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- card_dn: STRING
- card_id: STRING
- ether_port_large_stats_dn: STRING

- greater_than_or_equalto_9216_delta: INTEGER
- greater_than_or_equalto_9216_delta_enum: STRING
- less_than_2048_delta: INTEGER
- less_than_2048_delta_enum: STRING
- less_than_4096_delta: INTEGER
- less_than_4096_delta_enum: STRING
- less_than_8192_delta: INTEGER
- less_than_8192_delta_enum: STRING
- less_than_9216_delta: INTEGER
- less_than_9216_delta_enum: STRING
- less_than_or_equalto_1518_delta: INTEGER
- less_than_or_equalto_1518_delta_enum: STRING
- node: STRING
- no_breakdown_greaterthan_1518_delta: INTEGER
- no_breakdown_greaterthan_1518_delta_enum: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- traffic_direction: STRING

For events that are generated by situations in the RM Server Ether Port Outsized attribute group, events are sent by using the ITM_KV6_RM_SERVER_ETHER_PORT_OUTSIZED event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- card_dn: STRING
- card_id: STRING
- ether_port_outsized_stats_dn: STRING
- node: STRING
- oversized_bad_crc_packets_delta: INTEGER
- oversized_bad_crc_packets_delta_enum: STRING
- oversized_good_crc_packets_delta: INTEGER
- oversized_good_crc_packets_delta_enum: STRING
- oversized_packets_delta: INTEGER
- oversized_packets_delta_enum: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- traffic_direction: STRING
- undersized_bad_crc_packets_delta: INTEGER
- undersized_bad_crc_packets_delta_enum: STRING
- undersized_good_crc_packets_delta: INTEGER
- undersized_good_crc_packets_delta_enum: STRING

For events that are generated by situations in the RM Server Ether Port Packets attribute group, events are sent by using the ITM_KV6_RM_SERVER_ETHER_PORT_PACKETS event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- card_dn: STRING
- card_id: STRING
- ether_port_packets_stats_dn: STRING
- good_packets_delta: INTEGER
- good_packets_delta_enum: STRING
- node: STRING
- pause_packets_delta: INTEGER
- pause_packets_delta_enum: STRING
- per_priority_pause_packets_delta: INTEGER
- per_priority_pause_packets_delta_enum: STRING
- ppp_packets_delta: INTEGER
- ppp_packets_delta_enum: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- total_packets_delta: INTEGER
- total_packets_delta_enum: STRING
- traffic_direction: STRING
- vlan_packets_delta: INTEGER
- vlan_packets_delta_enum: STRING

For events that are generated by situations in the RM Server Ether Port Small attribute group, events are sent by using the ITM_KV6_RM_SERVER_ETHER_PORT_SMALL event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- card_dn: STRING
- card_id: STRING
- equalto_64_delta: INTEGER
- equalto_64_delta_enum: STRING
- ether_port_small_stats_dn: STRING
- less_than_1024_delta: INTEGER
- less_than_1024_delta_enum: STRING
- less_than_128_delta: INTEGER
- less_than_128_delta_enum: STRING
- less_than_256_delta: INTEGER
- less_than_256_delta_enum: STRING
- less_than_512_delta: INTEGER
- less_than_512_delta_enum: STRING

- less_than_64_delta: INTEGER
- less_than_64_delta_enum: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- traffic_direction: STRING

For events that are generated by situations in the RM Server Fan Configuration attribute group, events are sent by using the ITM_KV6_RM_SERVER_FAN_CONFIGURATION event class. This event class contains the following slots:

- fan_dn: STRING
- fan_id: STRING
- fan_module_dn: STRING
- fan_module_id: STRING
- model: STRING
- module: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the RM Server Fan Health Summary attribute group, events are sent by using the ITM_KV6_RM_SERVER_FAN_HEALTH_SUMMARY event class. This event class contains the following slots:

- fan_dn: STRING
- fan_id: STRING
- fan_module_dn: STRING
- fan_module_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- perf: STRING
- power: STRING
- presence: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

• voltage: STRING

For events that are generated by situations in the RM Server Fan Module Details attribute group, events are sent by using the ITM_KV6_RM_SERVER_FAN_MODULE_DETAILS event class. This event class contains the following slots:

- fan_module_dn: STRING
- fan_module_id: STRING
- model: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- tray: INTEGER
- tray_enum: STRING
- vendor: STRING

For events that are generated by situations in the RM Server Fan Module Health attribute group, events are sent by using the ITM_KV6_RM_SERVER_FAN_MODULE_HEALTH event class. This event class contains the following slots:

- fan_module_dn: STRING
- fan_module_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- perf: STRING
- power: STRING
- presence: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the RM Server Fan Module Temperature attribute group, events are sent by using the ITM_KV6_RM_SERVER_FAN_MODULE_TEMPERATURE event class. This event class contains the following slots:

- ambient_temperature: REAL
- ambient_temperature_enum: STRING
- fan_module_dn: STRING
- fan_module_id: STRING
- node: STRING
- rack_mount_server_dn: STRING

- rack_mount_server_id: STRING
- timestamp: STRING

For events that are generated by situations in the RM Server Fan Statistics attribute group, events are sent by using the ITM_KV6_RM_SERVER_FAN_STATISTICS event class. This event class contains the following slots:

- fan_dn: STRING
- fan_id: STRING
- fan_module_dn: STRING
- fan_module_id: STRING
- fan_speed: INTEGER
- fan_speed_enum: STRING
- fan_stats_dn: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING

For events that are generated by situations in the RM Server FC Port Statistics attribute group, events are sent by using the ITM_KV6_RM_SERVER_FC_PORT_STATISTICS event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- bad_frames_delta_rx: INTEGER
- bad_frames_delta_rx_enum: STRING
- bad_frames_delta_tx: INTEGER
- bad_frames_delta_tx_enum: STRING
- fcport_stats_dn: STRING
- frames_delta_rx: INTEGER
- frames_delta_rx_enum: STRING
- frames_delta_tx: INTEGER
- frames_delta_tx_enum: STRING
- hba_dn: STRING
- hba_id: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING

For events that are generated by situations in the RM Server Firmware attribute group, events are sent by using the ITM_KV6_RM_SERVER_FIRMWARE event class. This event class contains the following slots:

- boot_unit_operstate: STRING
- boot_unit_version: STRING
- deployment: STRING
- management_controller_dn: STRING
- node: STRING

- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- running_version: STRING
- subject: STRING
- timestamp: STRING
- update_operstate: STRING
- update_version: STRING

For events that are generated by situations in the RM Server HBA Configuration attribute group, events are sent by using the ITM_KV6_RM_SERVER_HBA_CONFIGURATION event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- hba_dn: STRING
- hba_id: STRING
- if_type: STRING
- model: STRING
- name: STRING
- node: STRING
- node_wwn: STRING
- original_node_wwn: STRING
- original_wwn: STRING
- pci_address: STRING
- purpose: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- switchid: STRING
- timestamp: STRING
- vendor: STRING
- vnic_dn: STRING
- wwn: STRING

For events that are generated by situations in the RM Server HBA Health Summary attribute group, events are sent by using the ITM_KV6_RM_SERVER_HBA_HEALTH_SUMMARY event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- hba_dn: STRING
- hba_id: STRING
- health: STRING
- node: STRING
- node_wwn: STRING
- oper_qos_policy_name: STRING

- perf: STRING
- power: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- vnic_dn: STRING
- wwn: STRING

For events that are generated by situations in the RM Server Health Summary attribute group, events are sent by using the ITM_KV6_RM_SERVER_HEALTH_SUMMARY event class. This event class contains the following slots:

- admin_state: STRING
- association: STRING
- availability: STRING
- check_point: STRING
- discovery: STRING
- health: STRING
- node: STRING
- operpower: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- service_profile_dn: STRING
- slot_status: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the RM Server Memory Array Health attribute group, events are sent by using the ITM_KV6_RM_SERVER_MEMORY_ARRAY_HEALTH event class. This event class contains the following slots:

- health: STRING
- memory_array_unit_dn: STRING
- memory_array_unit_id: STRING
- motherboard_dn: STRING
- node: STRING
- perf: STRING
- presence: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the RM Server Memory Array Statistics attribute group, events are sent by using the ITM_KV6_RM_SERVER_MEMORY_ARRAY_STATISTICS event class. This event class contains the following slots:

- input_current: REAL
- input_current_enum: STRING
- memory_array_unit_dn: STRING
- memory_array_unit_id: STRING
- memory_array_unit_stats_dn: STRING
- motherboard_dn: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING

For events that are generated by situations in the RM Server Memory Array Unit attribute group, events are sent by using the ITM_KV6_RM_SERVER_MEMORY_ARRAY_UNIT event class. This event class contains the following slots:

- cpu_id: STRING
- current_capacity: INTEGER
- current_capacity_enum: STRING
- max_capacity: INTEGER
- max_capacity_enum: STRING
- max_devices: INTEGER
- max_devices_enum: STRING
- memory_array_unit_dn: STRING
- memory_array_unit_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- populated: INTEGER
- populated_enum: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the RM Server Memory Unit Details attribute group, events are sent by using the ITM_KV6_RM_SERVER_MEMORY_UNIT_DETAILS event class. This event class contains the following slots:

- bank: INTEGER
- bank_enum: STRING
- capacity: INTEGER
- capacity_enum: STRING
- clock: INTEGER
- clock_enum: STRING
- location: STRING
- memory_array_unit_dn: STRING

- memory_array_unit_id: STRING
- memory_unit_dn: STRING
- memory_unit_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING
- width: INTEGER
- width_enum: STRING

For events that are generated by situations in the RM Server Memory Unit Health attribute group, events are sent by using the ITM_KV6_RM_SERVER_MEMORY_UNIT_HEALTH event class. This event class contains the following slots:

- health: STRING
- memory_array_dn: STRING
- memory_array_id: STRING
- memory_unit_dn: STRING
- memory_unit_id: STRING
- motherboard_dn: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- perf: STRING
- power: STRING
- presence: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the RM Server Memory Unit Temp attribute group, events are sent by using the ITM_KV6_RM_SERVER_MEMORY_UNIT_TEMP event class. This event class contains the following slots:

- memory_array_unit_dn: STRING
- memory_array_unit_id: STRING
- memory_unit_dn: STRING
- memory_unit_id: STRING

- memory_unit_temperature_stats_dn: STRING
- motherboard_dn: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- temperature: REAL
- temperature_enum: STRING
- timestamp: STRING

For events that are generated by situations in the RM Server Motherboard Details attribute group, events are sent by using the ITM_KV6_RM_SERVER_MOTHERBOARD_DETAILS event class. This event class contains the following slots:

- model: STRING
- motherboard_dn: STRING
- motherboard_id: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the RM Server Motherboard Health attribute group, events are sent by using the ITM_KV6_RM_SERVER_MOTHERBOARD_HEALTH event class. This event class contains the following slots:

- health: STRING
- motherboard_dn: STRING
- motherboard_id: STRING
- node: STRING
- oper_power: STRING
- perf: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the RM Server Motherboard Power attribute group, events are sent by using the ITM_KV6_RM_SERVER_MOTHERBOARD_POWER event class. This event class contains the following slots:

- consumed_power: INTEGER
- consumed_power_enum: STRING
- input_current: REAL
- input_current_enum: STRING
- input_voltage: REAL
- input_voltage_enum: STRING
- motherboard_dn: STRING
- motherboard_power_stats_dn: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING

For events that are generated by situations in the RM Server Motherboard Temp attribute group, events are sent by using the ITM_KV6_RM_SERVER_MOTHERBOARD_TEMP event class. This event class contains the following slots:

- ambient_temp: REAL
- ambient_temp_enum: STRING
- front_temp: REAL
- front_temp_enum: STRING
- ioh1temp: REAL
- ioh1temp_enum: STRING
- ioh2temp: REAL
- ioh2temp_enum: STRING
- motherboard_dn: STRING
- motherboard_temp_stats_dn: STRING
- node: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- rear_temp: REAL
- rear_temp_enum: STRING
- timestamp: STRING

For events that are generated by situations in the RM Server NIC Configuration attribute group, events are sent by using the ITM_KV6_RM_SERVER_NIC_CONFIGURATION event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- if_type: STRING
- mac: STRING
- model: STRING
- name: STRING
- nic_dn: STRING
- nic_id: STRING
- node: STRING
- original_mac: STRING
- purpose: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING

- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- switchid: STRING
- timestamp: STRING
- vendor: STRING
- vnic_dn: STRING

For events that are generated by situations in the RM Server NIC Health Summary attribute group, events are sent by using the ITM_KV6_RM_SERVER_NIC_HEALTH_SUMMARY event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- health: STRING
- mac: STRING
- nic_dn: STRING
- nic_id: STRING
- node: STRING
- oper_qos_policy_name: STRING
- perf: STRING
- power: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- vnic_dn: STRING

For events that are generated by situations in the RM Server PSU Configuration attribute group, events are sent by using the ITM_KV6_RM_SERVER_PSU_CONFIGURATION event class. This event class contains the following slots:

- model: STRING
- node: STRING
- psu_dn: STRING
- psu_id: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the RM Server PSU Health Summary attribute group, events are sent by using the ITM_KV6_RM_SERVER_PSU_HEALTH_SUMMARY event class. This event class contains the following slots:

- health: STRING
- node: STRING
- operability: STRING
- operstate: STRING
- perf: STRING
- power: STRING
- presence: STRING
- psu_dn: STRING
- psu_id: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the RM Server PSU Statistics attribute group, events are sent by using the ITM_KV6_RM_SERVER_PSU_STATISTICS event class. This event class contains the following slots:

- ambient_temperature: REAL
- ambient_temperature_enum: STRING
- input_power: REAL
- input_power_enum: STRING
- input_voltage: REAL
- input_voltage_enum: STRING
- node: STRING
- output_current: REAL
- output_current_enum: STRING
- output_power: REAL
- output_power_enum: STRING
- output_voltage: REAL
- output_voltage_enum: STRING
- psu_dn: STRING
- psu_id: STRING
- psu_stats_dn: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING

For events that are generated by situations in the RM Server Storage Controller attribute group, events are sent by using the ITM_KV6_RM_SERVER_STORAGE_CONTROLLER event class. This event class contains the following slots:

- model: STRING
- motherboard_dn: STRING
- node: STRING

- pcie_address: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- raid_support: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING
- timestamp: STRING
- type: STRING
- vendor: STRING

For events that are generated by situations in the RM Server Storage Disk attribute group, events are sent by using the ITM_KV6_RM_SERVER_STORAGE_DISK event class. This event class contains the following slots:

- disk_dn: STRING
- disk_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- presence: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the RM Server Storage Disk Health attribute group, events are sent by using the ITM_KV6_RM_SERVER_STORAGE_DISK_HEALTH event class. This event class contains the following slots:

- disk_dn: STRING
- disk_id: STRING
- health: STRING
- motherboard_dn: STRING
- node: STRING
- operability: STRING
- presence: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING

- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the RM Server Storage Health Summary attribute group, events are sent by using the ITM_KV6_RM_SERVER_STORAGE_HEALTH_SUMMARY event class. This event class contains the following slots:

- health: STRING
- motherboard_dn: STRING
- node: STRING
- operability: STRING
- oper_state: STRING
- perf: STRING
- power: STRING
- presence: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the RM Server vNIC Statistics attribute group, events are sent by using the ITM_KV6_RM_SERVER_VNIC_STATISTICS event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- bytes_rx_delta: INTEGER
- bytes_rx_delta_enum: STRING
- bytes_tx_delta: INTEGER
- bytes_tx_delta_enum: STRING
- card_dn: STRING
- card_id: STRING
- dropped_rx_delta: INTEGER
- dropped_rx_delta_enum: STRING
- dropped_tx_delta: INTEGER
- dropped_tx_delta_enum: STRING
- errors_rx_delta: INTEGER
- errors_rx_delta_enum: STRING
- errors_tx_delta: INTEGER
- errors_tx_delta_enum: STRING
- node: STRING
- packets_rx_delta: INTEGER

- packets_rx_delta_enum: STRING
- packets_tx_delta: INTEGER
- packets_tx_delta_enum: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- timestamp: STRING
- vnic_stats_dn: STRING

For events that are generated by situations in the RM Storage Firmware attribute group, events are sent by using the ITM_KV6_RM_STORAGE_FIRMWARE event class. This event class contains the following slots:

- boot_loader_version: STRING
- boot_unit_version: STRING
- deployment: STRING
- node: STRING
- operstate: STRING
- package_version: STRING
- rack_mount_server_dn: STRING
- rack_mount_server_id: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING
- system_version: STRING
- timestamp: STRING

For events that are generated by situations in the SAN Pool Details attribute group, events are sent by using the ITM_KV6_SAN_POOL_DETAILS event class. This event class contains the following slots:

- assigned: INTEGER
- assigned_enum: STRING
- health: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- purpose: STRING
- san_pool_dn: STRING
- size: INTEGER
- size_enum: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- utilization: INTEGER
- utilization_enum: STRING

For events that are generated by situations in the Server Adapter Configuration attribute group, events are sent by using the ITM_KV6_SERVER_ADAPTER_CONFIGURATION event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- model: STRING
- node: STRING
- pcislot: INTEGER
- pcislot_enum: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the Server Adapter Health Summary attribute group, events are sent by using the ITM_KV6_SERVER_ADAPTER_HEALTH_SUMMARY event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- health: STRING
- node: STRING
- operability: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the Server Configuration Details attribute group, events are sent by using the ITM_KV6_SERVER_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- assigned_to: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- model: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- slot_id: STRING
- timestamp: STRING

- uuid: STRING
- vendor: STRING

For events that are generated by situations in the Server CPU Configuration Details attribute group, events are sent by using the ITM_KV6_SERVER_CPU_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- cores_enabled: INTEGER
- cores_enabled_enum: STRING
- cpu_dn: STRING
- cpu_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- number_of_cores: INTEGER
- number_of_cores_enum: STRING
- processor_architecture: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- socket_designation: STRING
- speed: REAL
- speed_enum: STRING
- stepping: INTEGER
- stepping_enum: STRING
- threads: INTEGER
- threads_enum: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the Server CPU Health Summary attribute group, events are sent by using the ITM_KV6_SERVER_CPU_HEALTH_SUMMARY event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- cpu_dn: STRING
- cpu_id: STRING
- health: STRING
- motherboard_dn: STRING
- node: STRING
- operability: STRING

- power: STRING
- presence: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the Server CPU Statistics attribute group, events are sent by using the ITM_KV6_SERVER_CPU_STATISTICS event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- cpu_dn: STRING
- cpu_environment_stats_dn: STRING
- cpu_id: STRING
- input_current: REAL
- input_current_enum: STRING
- motherboard_dn: STRING
- node: STRING
- temperature: REAL
- temperature_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Server DCE Interface Summary attribute group, events are sent by using the ITM_KV6_SERVER_DCE_INTERFACE_SUMMARY event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- dce_interface_dn: STRING
- dce_interface_id: STRING
- if_type: STRING
- node: STRING
- side: STRING
- switchid: STRING
- timestamp: STRING

For events that are generated by situations in the Server Disk Configuration attribute group, events are sent by using the ITM_KV6_SERVER_DISK_CONFIGURATION event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- block_size: STRING

- chassis_dn: STRING
- chassis_id: STRING
- connection_protocol: STRING
- disk_dn: STRING
- disk_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- number_of_blocks: INTEGER
- number_of_blocks_enum: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- size: INTEGER
- size_enum: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the Server Disk Health Summary attribute group, events are sent by using the ITM_KV6_SERVER_DISK_HEALTH_SUMMARY event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- disk_dn: STRING
- disk_id: STRING
- health: STRING
- motherboard_dn: STRING
- node: STRING
- operability: STRING
- presence: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the Server Ether Port Communication attribute group, events are sent by using the ITM_KV6_SERVER_ETHER_PORT_COMMUNICATION event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING

- blade_server_dn: STRING
- blade_server_id: STRING
- broadcast_packets_delta: INTEGER
- broadcast_packets_delta_enum: STRING
- card_dn: STRING
- card_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- ether_port_mcast_stats_dn: STRING
- multicast_packets_delta: INTEGER
- multicast_packets_delta_enum: STRING
- node: STRING
- timestamp: STRING
- traffic_direction: STRING
- unicast_packets_delta: INTEGER
- unicast_packets_delta_enum: STRING

For events that are generated by situations in the Server Ether Port Error attribute group, events are sent by using the ITM_KV6_SERVER_ETHER_PORT_ERROR event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- bad_crc_packets_delta: INTEGER
- bad_crc_packets_delta_enum: STRING
- bad_length_packets_delta: INTEGER
- bad_length_packets_delta_enum: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- card_dn: STRING
- card_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- ether_port_error_stats_dn: STRING
- mac_discard_packets_delta: INTEGER
- mac_discard_packets_delta_enum: STRING
- node: STRING
- timestamp: STRING
- traffic_direction: STRING

For events that are generated by situations in the Server Ether Port Large attribute group, events are sent by using the ITM_KV6_SERVER_ETHER_PORT_LARGE event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING

- blade_server_dn: STRING
- blade_server_id: STRING
- card_dn: STRING
- card_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- ether_port_large_stats_dn: STRING
- greater_than_or_equalto_9216_delta: INTEGER
- greater_than_or_equalto_9216_delta_enum: STRING
- less_than_1518_delta: INTEGER
- less_than_1518_delta_enum: STRING
- less_than_2048_delta: INTEGER
- less_than_2048_delta_enum: STRING
- less_than_4096_delta: INTEGER
- less_than_4096_delta_enum: STRING
- less_than_8192_delta: INTEGER
- less_than_8192_delta_enum: STRING
- less_than_9216_delta: INTEGER
- less_than_9216_delta_enum: STRING
- node: STRING
- no_breakdown_greaterthan_1518_delta: INTEGER
- no_breakdown_greaterthan_1518_delta_enum: STRING
- timestamp: STRING
- traffic_direction: STRING

For events that are generated by situations in the Server Ether Port Outsized attribute group, events are sent by using the ITM_KV6_SERVER_ETHER_PORT_OUTSIZED event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- card_dn: STRING
- card_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- ether_port_outsized_stats_dn: STRING
- node: STRING
- oversized_bad_crc_packets_delta: INTEGER
- oversized_bad_crc_packets_delta_enum: STRING
- oversized_good_crc_packets_delta: INTEGER
- oversized_good_crc_packets_delta_enum: STRING
- oversized_packets_delta: INTEGER
- oversized_packets_delta_enum: STRING
- timestamp: STRING

- traffic_direction: STRING
- undersized_bad_crc_packets_delta: INTEGER
- undersized_bad_crc_packets_delta_enum: STRING
- undersized_good_crc_packets_delta: INTEGER
- undersized_good_crc_packets_delta_enum: STRING

For events that are generated by situations in the Server Ether Port Packets attribute group, events are sent by using the ITM_KV6_SERVER_ETHER_PORT_PACKETS event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- card_dn: STRING
- card_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- ether_port_packets_stats_dn: STRING
- good_packets_delta: INTEGER
- good_packets_delta_enum: STRING
- node: STRING
- pause_packets_delta: INTEGER
- pause_packets_delta_enum: STRING
- per_priority_pause_packets_delta: INTEGER
- per_priority_pause_packets_delta_enum: STRING
- ppp_packets_delta: INTEGER
- ppp_packets_delta_enum: STRING
- timestamp: STRING
- total_packets_delta: INTEGER
- total_packets_delta_enum: STRING
- traffic_direction: STRING
- vlan_packets_delta: INTEGER
- vlan_packets_delta_enum: STRING

For events that are generated by situations in the Server Ether Port Small attribute group, events are sent by using the ITM_KV6_SERVER_ETHER_PORT_SMALL event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- card_dn: STRING
- card_id: STRING
- chassis_dn: STRING

- chassis_id: STRING
- equalto_64_delta: INTEGER
- equalto_64_delta_enum: STRING
- ether_port_small_stats_dn: STRING
- less_than_1024_delta: INTEGER
- less_than_1024_delta_enum: STRING
- less_than_128_delta: INTEGER
- less_than_128_delta_enum: STRING
- less_than_256_delta: INTEGER
- less_than_256_delta_enum: STRING
- less_than_512_delta: INTEGER
- less_than_512_delta_enum: STRING
- less_than_64_delta: INTEGER
- less_than_64_delta_enum: STRING
- node: STRING
- timestamp: STRING
- traffic_direction: STRING

For events that are generated by situations in the Server FC Port Statistics attribute group, events are sent by using the ITM_KV6_SERVER_FC_PORT_STATISTICS event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- bad_frames_delta_rx: INTEGER
- bad_frames_delta_rx_enum: STRING
- bad_frames_delta_tx: INTEGER
- bad_frames_delta_tx_enum: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- fcport_stats_dn: STRING
- frames_delta_rx: INTEGER
- frames_delta_rx_enum: STRING
- frames_delta_tx: INTEGER
- frames_delta_tx_enum: STRING
- hba_dn: STRING
- hba_id: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Server Hardware Firmware attribute group, events are sent by using the ITM_KV6_SERVER_HARDWARE_FIRMWARE event class. This event class contains the following slots:

• blade_server_dn: STRING

- blade_server_id: STRING
- boot_unit_operstate: STRING
- boot_unit_version: STRING
- chassis_dn: STRING
- chassis_id: STRING
- deployment: STRING
- management_controller_dn: STRING
- node: STRING
- running_version: STRING
- subject: STRING
- timestamp: STRING
- update_operstate: STRING
- update_version: STRING

For events that are generated by situations in the Server HBA Configuration Details attribute group, events are sent by using the ITM_KV6_SERVER_HBA_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- hba_dn: STRING
- hba_id: STRING
- if_type: STRING
- model: STRING
- name: STRING
- node: STRING
- node_wwn: STRING
- original_node_wwn: STRING
- original_wwn: STRING
- pci_address: STRING
- purpose: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- switchid: STRING
- timestamp: STRING
- vendor: STRING
- vhba_dn: STRING
- wwn: STRING

For events that are generated by situations in the Server HBA Health Summary attribute group, events are sent by using the ITM_KV6_SERVER_HBA_HEALTH_SUMMARY event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- hba_dn: STRING
- hba_id: STRING
- health: STRING
- node: STRING
- node_wwn: STRING
- oper_qos_policy_name: STRING
- perf: STRING
- power: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- vnic_dn: STRING
- wwn: STRING

For events that are generated by situations in the Server Health Summary attribute group, events are sent by using the ITM_KV6_SERVER_HEALTH_SUMMARY event class. This event class contains the following slots:

- admin_state: STRING
- association: STRING
- availability: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- check_point: STRING
- discovery: STRING
- health: STRING
- node: STRING
- oper_power: STRING
- presence: STRING
- service_profile_dn: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the Server Memory Array Statistics attribute group, events are sent by using the ITM_KV6_SERVER_MEMORY_ARRAY_STATISTICS event class. This event class contains the following slots:

• blade_server_dn: STRING

- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- input_current: REAL
- input_current_enum: STRING
- memory_array_unit_dn: STRING
- memory_array_unit_id: STRING
- memory_array_unit_stats_dn: STRING
- motherboard_dn: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Server Memory Array Unit Details attribute group, events are sent by using the ITM_KV6_SERVER_MEMORY_ARRAY_UNIT_DETAILS event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- cpu_id: STRING
- current_capacity: INTEGER
- current_capacity_enum: STRING
- max_capacity: INTEGER
- max_capacity_enum: STRING
- max_devices: INTEGER
- max_devices_enum: STRING
- memory_array_unit_dn: STRING
- memory_array_unit_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- populated: INTEGER
- populated_enum: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the Server Memory Array Unit Health attribute group, events are sent by using the ITM_KV6_SERVER_MEMORY_ARRAY_UNIT_HEALTH event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- health: STRING
- memory_array_unit_dn: STRING
- memory_array_unit_id: STRING

- motherboard_dn: STRING
- node: STRING
- performance: STRING
- presence: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the Server Memory Unit Configuration attribute group, events are sent by using the ITM_KV6_SERVER_MEMORY_UNIT_CONFIGURATION event class. This event class contains the following slots:

- bank: INTEGER
- bank_enum: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- capacity: INTEGER
- capacity_enum: STRING
- chassis_dn: STRING
- chassis_id: STRING
- clock: INTEGER
- clock_enum: STRING
- location: STRING
- memory_array_unit_dn: STRING
- memory_array_unit_id: STRING
- memory_unit_dn: STRING
- memory_unit_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING
- width: INTEGER
- width_enum: STRING

For events that are generated by situations in the Server Memory Unit Temperature attribute group, events are sent by using the ITM_KV6_SERVER_MEMORY_UNIT_TEMPERATURE event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- memory_array_unit_dn: STRING
- memory_array_unit_id: STRING

- memory_unit_dn: STRING
- memory_unit_id: STRING
- memory_unit_temperature_stats_dn: STRING
- motherboard_dn: STRING
- node: STRING
- temperature: REAL
- temperature_enum: STRING
- timestamp: STRING

For events that are generated by situations in the Server Motherboard Configuration attribute group, events are sent by using the ITM_KV6_SERVER_MOTHERBOARD_CONFIGURATION event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- model: STRING
- motherboard_dn: STRING
- motherboard_id: STRING
- node: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- timestamp: STRING
- vendor: STRING

For events that are generated by situations in the Server Motherboard Health attribute group, events are sent by using the ITM_KV6_SERVER_MOTHERBOARD_HEALTH event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- health: STRING
- motherboard_dn: STRING
- motherboard_id: STRING
- node: STRING
- oper_power: STRING
- performance: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the Server Motherboard Power attribute group, events are sent by using the ITM_KV6_SERVER_MOTHERBOARD_POWER event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- consumed_power: REAL
- consumed_power_enum: STRING
- input_current: REAL
- input_current_enum: STRING
- input_voltage: REAL
- input_voltage_enum: STRING
- motherboard_dn: STRING
- motherboard_power_stats_dn: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Server Motherboard Temperature attribute group, events are sent by using the ITM_KV6_SERVER_MOTHERBOARD_TEMPERATURE event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- fm_temp_sen_io: REAL
- fm_temp_sen_io_enum: STRING
- fm_temp_sen_rear: REAL
- fm_temp_sen_rear_enum: STRING
- fm_temp_sen_rear_l: REAL
- fm_temp_sen_rear_l_enum: STRING
- fm_temp_sen_rear_r: REAL
- fm_temp_sen_rear_r_enum: STRING
- motherboard_dn: STRING
- motherboard_temperature_stats_dn: STRING
- node: STRING
- timestamp: STRING

For events that are generated by situations in the Server NIC Configuration Details attribute group, events are sent by using the ITM_KV6_SERVER_NIC_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING

- if_type: STRING
- mac: STRING
- model: STRING
- name: STRING
- nic_dn: STRING
- nic_id: STRING
- node: STRING
- originalmac: STRING
- purpose: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- switchid: STRING
- timestamp: STRING
- vendor: STRING
- vnic_dn: STRING

For events that are generated by situations in the Server NIC Health Summary attribute group, events are sent by using the ITM_KV6_SERVER_NIC_HEALTH_SUMMARY event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- health: STRING
- mac: STRING
- nic_dn: STRING
- nic_id: STRING
- node: STRING
- oper_qos_policy_name: STRING
- perf: STRING
- power: STRING
- thermal: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- vnic_dn: STRING

For events that are generated by situations in the Server Pool Details attribute group, events are sent by using the ITM_KV6_SERVER_POOL_DETAILS event class. This event class contains the following slots:

- assigned: INTEGER
- assigned_enum: STRING
- assignment: INTEGER
- assignment_enum: STRING

- health: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- server_pool_dn: STRING
- size: INTEGER
- size_enum: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the Server Storage Controller attribute group, events are sent by using the ITM_KV6_SERVER_STORAGE_CONTROLLER event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- model: STRING
- motherboard_dn: STRING
- node: STRING
- pcie_address: STRING
- raid_support: STRING
- revision: INTEGER
- revision_enum: STRING
- serial: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING
- timestamp: STRING
- type: STRING
- vendor: STRING

For events that are generated by situations in the Server Storage Controller Health attribute group, events are sent by using the ITM_KV6_SERVER_STORAGE_CONTROLLER_HEALTH event class. This event class contains the following slots:

- blade_server_dn: STRING
- blade_server_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- health: STRING
- motherboard_dn: STRING
- node: STRING
- operability: STRING
- oper_state: STRING
- performance: STRING
- power: STRING

- presence: STRING
- storage_controller_dn: STRING
- storage_controller_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- voltage: STRING

For events that are generated by situations in the Server vNIC Statistics attribute group, events are sent by using the ITM_KV6_SERVER_VNIC_STATISTICS event class. This event class contains the following slots:

- adapter_dn: STRING
- adapter_id: STRING
- adapter_type: STRING
- blade_server_dn: STRING
- blade_server_id: STRING
- bytes_rx_delta: INTEGER
- bytes_rx_delta_enum: STRING
- bytes_tx_delta: INTEGER
- bytes_tx_delta_enum: STRING
- card_dn: STRING
- card_id: STRING
- chassis_dn: STRING
- chassis_id: STRING
- dropped_rx_delta: INTEGER
- dropped_rx_delta_enum: STRING
- dropped_tx_delta: INTEGER
- dropped_tx_delta_enum: STRING
- errors_rx_delta: INTEGER
- errors_rx_delta_enum: STRING
- errors_tx_delta: INTEGER
- errors_tx_delta_enum: STRING
- node: STRING
- packets_rx_delta: INTEGER
- packets_rx_delta_enum: STRING
- packets_tx_delta: INTEGER
- packets_tx_delta_enum: STRING
- timestamp: STRING
- vnic_stats_dn: STRING

For events that are generated by situations in the Service Profile Health attribute group, events are sent by using the ITM_KV6_SERVICE_PROFILE_HEALTH event class. This event class contains the following slots:

- assigned_state: STRING
- assoc_state: STRING
- bios_policy_dn: STRING

- boot_policy_dn: STRING
- health: STRING
- ipmi_policy_dn: STRING
- local_disk_configuration_policy_dn: STRING
- name: STRING
- node: STRING
- oper_state: STRING
- org_root_dn: STRING
- pndn: STRING
- scrub_policy_dn: STRING
- serial_over_lan_policy_dn: STRING
- service_profile_dn: STRING
- threshold_policy_dn: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- type: STRING
- vnic_vhba_placement_policy_dn: STRING

For events that are generated by situations in the Service Profiles vHBA Health Summary attribute group, events are sent by using the ITM_KV6_SERVICE_PROFILES_VHBA_HEALTH_SUMMARY event class. This event class contains the following slots:

- configstate: STRING
- equipmentdn: STRING
- health: STRING
- node: STRING
- operqospolicyname: STRING
- operspeed: STRING
- org_root_dn: STRING
- service_profile_dn: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- vhba_dn: STRING

For events that are generated by situations in the Service Profiles vNIC Health Summary attribute group, events are sent by using the ITM_KV6_SERVICE_PROFILES_VNIC_HEALTH_SUMMARY event class. This event class contains the following slots:

- configstate: STRING
- equipmentdn: STRING
- health: STRING
- node: STRING
- operqospolicyname: STRING
- operspeed: STRING
- org_root_dn: STRING
- service_profile_dn: STRING

- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- vnic_dn: STRING

For events that are generated by situations in the Sys Mon Alarm Trigger Configuration Details attribute group, events are sent by using the ITM_KV6_SYS_MON_ALARM_TRIGGER_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- alarm_trigger_dn: STRING
- deescalating: STRING
- direction: STRING
- escalating: STRING
- kv6_severity: STRING
- node: STRING
- root_level_dn: STRING
- threshold_policy_class_dn: STRING
- threshold_policy_definition_dn: STRING
- threshold_policy_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Appliance Port Configuration Details attribute group, events are sent by using the

ITM_KV6_SYS_MON_APPLIANCE_PORT_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- appliance_port_dn: STRING
- configstate: STRING
- direction: STRING
- fabric_dn: STRING
- node: STRING
- portid: STRING
- session_name: STRING
- slotid: STRING
- switchid: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Core File Exporter Configuration Details attribute group, events are sent by using the ITM_KV6_SYS_MON_CORE_FILE_EXPORTER_CONFIGURATION_DETAILS event class. This event class

contains the following slots:

- adminstate: STRING
- core_file_exporter_dn: STRING
- descr: STRING
- kv6_hostname: STRING
- node: STRING
- path: STRING
- port: STRING
- system_debug_dn: STRING

- system_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Fault Collection Policy Configuration Details attribute group, events are sent by using the ITM_KV6_SYS_MON_FAULT_COLLECTION_POLICY_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- clearaction: STRING
- clearinterval: STRING
- fault_collection_policy_dn: STRING
- fault_dn: STRING
- flapinterval: STRING
- node: STRING
- retentioninterval: STRING
- sizelimit: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon FCoE Storage Port Configuration Details attribute group, events are sent by using the

ITM_KV6_SYS_MON_FCOE_STORAGE_PORT_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- configstate: STRING
- direction: STRING
- fabric_dn: STRING
- fcoe_storage_port_dn: STRING
- node: STRING
- portid: STRING
- session_name: STRING
- slotid: STRING
- switchid: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Port Channel Configuration Details LAN attribute group, events are sent by using the

ITM_KV6_SYS_MON_PORT_CHANNEL_CONFIGURATION_DETAILS_LAN event class. This event class contains the following slots:

- direction: STRING
- fabric_dn: STRING
- node: STRING
- portid: STRING
- port_channel_dn: STRING
- session_name: STRING
- switchid: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Port Channel Configuration Details SAN attribute group, events are sent by using the ITM_KV6_SYS_MON_PORT_CHANNEL_CONFIGURATION_DETAILS_SAN event class. This event class contains the following slots:

- direction: STRING
- fabric_dn: STRING
- node: STRING
- portid: STRING
- port_channel_dn: STRING
- session_name: STRING
- switchid: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Server Port Configuration Details attribute group, events are sent by using the ITM_KV6_SYS_MON_SERVER_PORT_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- direction: STRING
- epdn: STRING
- fabric_dn: STRING
- node: STRING
- portid: STRING
- server_port_source_dn: STRING
- session_name: STRING
- slotid: STRING
- switchid: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Storage Port Configuration Details attribute group, events are sent by using the

ITM_KV6_SYS_MON_STORAGE_PORT_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- configstate: STRING
- direction: STRING
- epdn: STRING
- fabric_dn: STRING
- node: STRING
- portid: STRING
- session_name: STRING
- slotid: STRING
- storage_port_source_dn: STRING
- switchid: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Syslog Local Destination Configuration Details attribute group, events are sent by using the

ITM_KV6_SYS_MON_SYSLOG_LOCAL_DESTINATION_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- adminstate: STRING
- destination_type: STRING
- kv6_severity: STRING
- name: STRING
- node: STRING

- parent_dn: STRING
- size: STRING
- syslog_local_dn: STRING
- system_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Syslog Local Sources Configuration Details attribute group, events are sent by using the

ITM_KV6_SYS_MON_SYSLOG_LOCAL_SOURCES_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- audits: STRING
- events: STRING
- faults: STRING
- node: STRING
- svc_dn: STRING
- syslog_dn: STRING
- syslog_local_source_dn: STRING
- system_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Syslog Remote Destination Configuration Details attribute group, events are sent by using the

ITM_KV6_SYS_MON_SYSLOG_REMOTE_DESTINATION_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- adminstate: STRING
- forwardingfacility: STRING
- kv6_hostname: STRING
- kv6_severity: STRING
- name: STRING
- node: STRING
- svc_dn: STRING
- syslog_dn: STRING
- syslog_remote_dn: STRING
- system_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Threshold Policy Configuration Summary attribute group, events are sent by using the

ITM_KV6_SYS_MON_THRESHOLD_POLICY_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- descr: STRING
- name: STRING
- node: STRING
- root_level_dn: STRING
- threshold_policy_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Threshold Policy Definition Configuration Summary attribute group, events are sent by using the

ITM_KV6_SYS_MON_THRESHOLD_POLICY_DEFINITION_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- node: STRING
- normalvalue: STRING
- propid: STRING
- root_level_dn: STRING
- threshold_policy_class_dn: STRING
- threshold_policy_definition_dn: STRING
- threshold_policy_dn: STRING
- timestamp: STRING

For events that are generated by situations in the Sys Mon Traffic Monitoring Session Health Summary LAN attribute group, events are sent by using the

ITM_KV6_SYS_MON_TRAFFIC_MONITORING_SESSION_HEALTH_SUMMARY_LAN event class. This event class contains the following slots:

- adminstate: STRING
- epdn: STRING
- fabric_dn: STRING
- health: STRING
- name: STRING
- node: STRING
- operstate: STRING
- operstatereason: STRING
- switch_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- traffic_monitoring_session_dn: STRING

For events that are generated by situations in the Sys Mon Traffic Monitoring Session Health Summary SAN attribute group, events are sent by using the ITM_KV6_SYS_MON_TRAFFIC_MONITORING_SESSION_HEALTH_SUMMARY_SAN event class. This

event class contains the following slots:

- adminstate: STRING
- epdn: STRING
- fabric_dn: STRING
- health: STRING
- name: STRING
- node: STRING
- operstate: STRING
- operstatereason: STRING
- switch_id: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

• traffic_monitoring_session_dn: STRING

For events that are generated by situations in the Sys Mon Uplink Ethernet Port Configuration Details attribute group, events are sent by using the

ITM_KV6_SYS_MON_UPLINK_ETHERNET_PORT_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- direction: STRING
- epdn: STRING
- fabric_dn: STRING
- node: STRING
- portid: STRING
- session_name: STRING
- slotid: STRING
- switchid: STRING
- timestamp: STRING
- uplink_ethernet_source_dn: STRING

For events that are generated by situations in the Sys Mon Uplink FC Port Configuration Details attribute group, events are sent by using the

ITM_KV6_SYS_MON_UPLINK_FC_PORT_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- direction: STRING
- epdn: STRING
- fabric_dn: STRING
- node: STRING
- portid: STRING
- session_name: STRING
- slotid: STRING
- switchid: STRING
- timestamp: STRING
- uplink_fc_port_source_dn: STRING

For events that are generated by situations in the Sys Mon vHBA Configuration Details attribute group, events are sent by using the ITM_KV6_SYS_MON_VHBA_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- direction: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- service_profile_dn: STRING
- session_name: STRING
- switchid: STRING
- timestamp: STRING
- vhba_dn: STRING

For events that are generated by situations in the Sys Mon VLAN Configuration Details attribute group, events are sent by using the ITM_KV6_SYS_MON_VLAN_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- direction: STRING
- fabric_dn: STRING
- name: STRING
- node: STRING
- session_name: STRING
- switchid: STRING
- timestamp: STRING
- vlan_dn: STRING

For events that are generated by situations in the Sys Mon vNIC Configuration Details attribute group, events are sent by using the ITM_KV6_SYS_MON_VNIC_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- direction: STRING
- name: STRING
- node: STRING
- org_root_dn: STRING
- service_profile_dn: STRING
- session_name: STRING
- switchid: STRING
- timestamp: STRING
- vnic_dn: STRING

For events that are generated by situations in the Sys Mon VSAN Configuration Details attribute group, events are sent by using the ITM_KV6_SYS_MON_VSAN_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- direction: STRING
- fabric_dn: STRING
- name: STRING
- node: STRING
- session_name: STRING
- switchid: STRING
- timestamp: STRING
- vsan_dn: STRING

For events that are generated by situations in the Thread Pool Status attribute group, events are sent by using the ITM_KV6_THREAD_POOL_STATUS event class. This event class contains the following slots:

- node: STRING
- thread_pool_active_threads: INTEGER
- thread_pool_active_threads_enum: STRING
- thread_pool_avg_active_threads: REAL
- thread_pool_avg_active_threads_enum: STRING
- thread_pool_avg_job_wait: REAL
- thread_pool_avg_job_wait_enum: STRING
- thread_pool_avg_queue_length: REAL
- thread_pool_avg_queue_length_enum: STRING
- thread_pool_max_active_threads: INTEGER
- thread_pool_max_active_threads_enum: STRING

- thread_pool_max_queue_length: INTEGER
- thread_pool_max_queue_length_enum: STRING
- thread_pool_max_size: INTEGER
- thread_pool_max_size_enum: STRING
- thread_pool_min_active_threads: INTEGER
- thread_pool_min_active_threads_enum: STRING
- thread_pool_min_queue_length: INTEGER
- thread_pool_min_queue_length_enum: STRING
- thread_pool_queue_length: INTEGER
- thread_pool_queue_length_enum: STRING
- thread_pool_size: INTEGER
- thread_pool_size_enum: STRING
- thread_pool_total_jobs: INTEGER
- thread_pool_total_jobs_enum: STRING
- timestamp: STRING

For events that are generated by situations in the UCS Servers Health Summary attribute group, events are sent by using the ITM_KV6_UCS_SERVERS_HEALTH_SUMMARY event class. This event class contains the following slots:

- admin_state: STRING
- association: STRING
- availability: STRING
- check_point: STRING
- discovery: STRING
- fsmstagedescr: STRING
- health: STRING
- node: STRING
- operpower: STRING
- operstate: STRING
- parent_dn: STRING
- server_dn: STRING
- server_id: STRING
- service_profile_dn: STRING
- slot_status: STRING
- timestamp: STRING
- topsystem: STRING
- total_faults: INTEGER
- total_faults_enum: STRING

For events that are generated by situations in the UUID Suffix Pool Details attribute group, events are sent by using the ITM_KV6_UUID_SUFFIX_POOL_DETAILS event class. This event class contains the following slots:

- assigned: INTEGER
- assigned_enum: STRING
- health: STRING
- name: STRING

- node: STRING
- org_root_dn: STRING
- prefix: STRING
- size: INTEGER
- size_enum: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- utilization: INTEGER
- utilization_enum: STRING
- uuid_pool_dn: STRING

For events that are generated by situations in the VMware Datacenter Configuration Details attribute group, events are sent by using the ITM_KV6_VMWARE_DATACENTER_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- datacenter_dn: STRING
- description: STRING
- extvmmdn: STRING
- name: STRING
- node: STRING
- timestamp: STRING
- type: STRING
- uuid: STRING
- vcenter_dn: STRING
- vcenter_folder_dn: STRING

For events that are generated by situations in the VMware DVS Configuration Details attribute group, events are sent by using the ITM_KV6_VMWARE_DVS_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- datacenter_dn: STRING
- description: STRING
- dvs_dn: STRING
- extension_key: STRING
- extvmmdn: STRING
- folder_dn: STRING
- name: STRING
- node: STRING
- timestamp: STRING
- type: STRING
- uuid: STRING
- vcenter_dn: STRING
- vcenter_folder_dn: STRING

For events that are generated by situations in the VMware ESX Host Server Health Summary attribute group, events are sent by using the ITM_KV6_VMWARE_ESX_HOST_SERVER_HEALTH_SUMMARY event class. This event class contains the following slots:

• blade_server_dn: STRING

- descr: STRING
- dvs_dn: STRING
- esx_host_dn: STRING
- health: STRING
- name: STRING
- node: STRING
- service_profile_dn: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- uuid: STRING
- vmm_dn: STRING
- vstatus: STRING

For events that are generated by situations in the VMware Folder Configuration Details attribute group, events are sent by using the ITM_KV6_VMWARE_FOLDER_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- datacenter_dn: STRING
- description: STRING
- extvmmdn: STRING
- folder_dn: STRING
- name: STRING
- node: STRING
- own: STRING
- timestamp: STRING
- type: STRING
- uuid: STRING
- vcenter_dn: STRING
- vcenter_folder_dn: STRING

For events that are generated by situations in the VMware Port Profile Configuration Summary attribute group, events are sent by using the

ITM_KV6_VMWARE_PORT_PROFILE_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- description: STRING
- fabric_dn: STRING
- host_network: STRING
- max_ports: STRING
- name: STRING
- network_policy_name: STRING
- node: STRING
- oper_nwctrl_policyname: STRING
- oper_qos_policy_name: STRING
- pin_group: STRING
- port_profile_dn: STRING
- qos_policy: STRING
- timestamp: STRING

For events that are generated by situations in the VMware Profile Client Configuration Details attribute group, events are sent by using the

ITM_KV6_VMWARE_PROFILE_CLIENT_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- datacenter_name: STRING
- description: STRING
- dvs_name: STRING
- fabric_dn: STRING
- folder: STRING
- name: STRING
- node: STRING
- port_profile_dn: STRING
- profile_client_dn: STRING
- timestamp: STRING

For events that are generated by situations in the VMware vCenter Folder Configuration Summary attribute group, events are sent by using the

ITM_KV6_VMWARE_VCENTER_FOLDER_CONFIGURATION_SUMMARY event class. This event class contains the following slots:

- description: STRING
- extvmmdn: STRING
- name: STRING
- node: STRING
- own: STRING
- timestamp: STRING
- uuid: STRING
- vcenter_dn: STRING
- vcenter_folder_dn: STRING

For events that are generated by situations in the VMware vCenter Health Summary attribute group, events are sent by using the ITM_KV6_VMWARE_VCENTER_HEALTH_SUMMARY event class. This event class contains the following slots:

- description: STRING
- extvmmdn: STRING
- health: STRING
- host: STRING
- key: STRING
- name: STRING
- node: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- vcenter_dn: STRING

For events that are generated by situations in the VMware VIF Configuration Details attribute group, events are sent by using the ITM_KV6_VMWARE_VIF_CONFIGURATION_DETAILS event class. This event class contains the following slots:

• fabric_id: STRING

- kv6_status: STRING
- name: STRING
- node: STRING
- parent_dn: STRING
- phsaccesscardid: STRING
- phsaccessportid: STRING
- phsbordercardid: STRING
- phsborderportid: STRING
- timestamp: STRING
- vif_dn: STRING
- vmm_dn: STRING
- vnic_dn: STRING

For events that are generated by situations in the VMware Virtual Machine Health Summary attribute group, events are sent by using the ITM_KV6_VMWARE_VIRTUAL_MACHINE_HEALTH_SUMMARY event class. This event class contains the following slots:

- blade_server_dn: STRING
- description: STRING
- dvs_dn: STRING
- esx_host_dn: STRING
- health: STRING
- name: STRING
- node: STRING
- service_profile_dn: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- uuid: STRING
- virtual_machine_dn: STRING
- vmm_dn: STRING
- vstatus: STRING

For events that are generated by situations in the VMware vLAN Configuration Details attribute group, events are sent by using the ITM_KV6_VMWARE_VLAN_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- name: STRING
- node: STRING
- parent_dn: STRING
- timestamp: STRING
- vlan_dn: STRING
- vmm_dn: STRING
- vnic_dn: STRING

For events that are generated by situations in the VMware vNIC Health Summary attribute group, events are sent by using the ITM_KV6_VMWARE_VNIC_HEALTH_SUMMARY event class. This event class contains the following slots:

• health: STRING
- hostifdn: STRING
- macaddr: STRING
- name: STRING
- node: STRING
- parent_dn: STRING
- profile_name: STRING
- service_profile_dn: STRING
- service_profile_vnicdn: STRING
- timestamp: STRING
- total_faults: INTEGER
- total_faults_enum: STRING
- type: STRING
- vmm_dn: STRING
- vnic_dn: STRING
- vstatus: STRING

For events that are generated by situations in the VMware vNIC Interface Configuration Details attribute group, events are sent by using the

ITM_KV6_VMWARE_VNIC_INTERFACE_CONFIGURATION_DETAILS event class. This event class contains the following slots:

- address: STRING
- defaultnet: STRING
- fabric_dn: STRING
- name: STRING
- node: STRING
- port_profile_dn: STRING
- timestamp: STRING
- type: STRING
- vnic_interface_dn: STRING

Appendix B. Discovery Library Adapter for the Cisco UCS agent

The Tivoli Management Services Discovery Library Adapter (DLA) discovers resources and relationships, and creates a Discovery Library Book file for the agent.

About the DLA

The Book file follows the Discovery Library IdML schema and is used to populate the Configuration Management Database (CMDB) and Tivoli Business Service Manager products. The Tivoli Management Services DLA discovers Cisco UCS resources. For all VMware systems that are active and online at the Tivoli Enterprise Portal Server, information is included in the discovery book for those resources. The Tivoli Management Services DLA discovers active resources. It is run on demand and can be run periodically to discover resources that were not active during previous discoveries.

The DLA discovers Cisco UCS components.

More information about DLAs

The following sources contain additional information about using the DLA program with all monitoring agents:

- The *IBM Tivoli Monitoring Administrator's Guide* contains information about using the Tivoli Management Services Discovery Library Adapter.
- For information about using a DLA with Tivoli Application Dependency Discovery Manager (TADDM), see the TADDM Information Center (http://www-01.ibm.com/support/knowledgecenter/SSPLFC_7.2.0/welcome_page/kc_welcome-444.html).

DLA data model class types represented in CDM

The source application data objects map to classes in the Common Data Model (CDM) for the Cisco UCS agent.

The following information is provided for each class:

CDM class name

Class name for which the agent is providing information

Relationships

CDM relationships (hierarchical) between currently identified model objects

CDM attributes, agent attributes, descriptions, and examples

CDM and agent attributes that are required to create an instance of a resource, descriptions of the attributes, and examples of the attributes

DLA data model classes for Cisco UCS agent

Each agent that uses the Discovery Library Adapter has DLA data model classes defined for the agent.

The VMware VI agent has the following Discovery Library Adapter data model classes:

- CiscoUCSFabricInterconnect
- CiscoUCSChassis
- CiscoUCSBladeServer

- CiscoUCSPool
- CiscoUCSServiceProfile
- CiscoUCSPort
- Chip
- CiscoUCSInterfaceCard
- DiskDrive
- Board
- PowerSupply
- Fan

CiscoUCSPort class

This class displays information about the types of ports that are available in the fabric interconnect and chassis I/O module.

CDM class name

sys/cisco/ucs/CiscoUCSPort

Relationships

contains

- Source: Board
- Target: CiscoUCSPort
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12/slot-2-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-12/slot-2/host/port-8-CiscoUCSPort"

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: TransportType Agent attribute: KV6.FI_Fixed_Expansion_Port_Health.Transport_Type Description: The transport type of the port. Example: DCE
- CDM attribute: NetworkType Agent attribute: KV6.FI_Fixed_Expansion_Port_Health.Network_Type Description: The network type of the port. Example: LAN

CiscoUCSFabricInterconnect class

This class displays information about the fabric interconnect that provides network connectivity and management capabilities to the blades and chassis that are attached to the fabric interconnect.

CDM class name

sys/cisco/ucs/CiscoUCSFabricInterconnect

Relationships

contains

- Source: CiscoUCSFabricInterconnect
- Target: Fan
- Example: source="non-windows:IBMESX2V7:V6-sys/switch-B-CiscoUCSFabricInterconnect" target="non-windows:IBMESX2V7:V6-sys/switch-B/fan-2-Fan"

contains

- Source: CiscoUCSFabricInterconnect
- Target: PowerSupply

• Example: source="non-windows:IBMESX2V7:V6-sys/switch-B-CiscoUCSFabricInterconnect" target="non-windows:IBMESX2V7:V6-sys/switch-B/psu-2-PowerSupply"

physicallyContains

- Source: CiscoUCSFabricInterconnect
- Target: Board
- Example: source="non-windows:IBMESX2V7:V6-sys/switch-B-CiscoUCSFabricInterconnect" target="non-windows:IBMESX2V7:V6-sys/switch-B/slot-2-Board"

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: BootloaderVersion Agent attribute: KV6.FI_Hardware_Firmware.Bootloader_Version Description: The firmware version of the fabric interconnect that is associated with the boot-loader software. Example: 1.0
- CDM attribute: KernelVersion Agent attribute: KV6.FI_Hardware_Firmware.Kernel_Version Description: The kernel version that is used by the server. Example: 4.2(1)N1(1.3)

CDM attribute: PackageSystemVersion

Agent attribute: KV6.FI_Hardware_Firmware.Package_Version Description: The version of the firmware package that includes the system firmware. Example: 4.2(1)N1(1.3)

CDM attribute: StartupKernelVersion

Agent attribute: KV6.FI_Hardware_Firmware.Startup_Kernel_Version Description: The kernel version after the server is restarted. Example: 4.2(1)N1(1.3)

 CDM attribute: ActiveKernelStatus Agent attribute: KV6.FI_Hardware_Firmware.Kernel_OperState Description: The activation status of the kernel. Example: Ready

CiscoUCSChassis class

This class displays information about the chassis that provides an architecture for current and data center needs.

CDM class name

sys/cisco/ucs/CiscoUCSChassis

Relationships

contains

- Source: CiscoUCSChassis
- Target: PowerSupply
- Example: contains source="non-windows:IBMESX2V7:V6-sys/chassis-12-CiscoUCSChassis" target="non-windows:IBMESX2V7:V6-sys/chassis-12/psu-4-PowerSupply"

physicallyContains

- Source: CiscoUCSChassis
- Target: CiscoUCSBladeServer
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-1-CiscoUCSChassis" target="non-windows:IBMESX2V7:V6-sys/chassis-1/blade-1-CiscoUCSBladeServer"

physicallyContains

• Source: CiscoUCSChassis

- Target: Board
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-2-CiscoUCSChassis" target="non-windows:IBMESX2V7:V6-sys/chassis-2/slot-1/mgmt-Board"

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: ConfigurationState
 - Agent attribute: KV6.Chassis_Health_Summary.Configuration_State Description: The configuration status of the chassis. Example: 0k
- CDM attribute: OperationalPower

Agent attribute: KV6.Chassis_Health_Summary.power Description: The power status of the chassis. Example: 0k

CiscoUCSBladeServer class

This class displays information about the blade server that provides an architecture to improve cabling, power consumption, and load balancing.

CDM class name

sys/cisco/ucs/CiscoUCSBladeServer

Relationships

physicallyContains

- Source: CiscoUCSBladeServer
- Target: Board
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7-CiscoUCSBladeServer" target="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7/board-Board"

physicallyContains

- Source: CiscoUCSChassis
- Target: CiscoUCSBladeServer
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12-CiscoUCSChassis" target="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7-CiscoUCSBladeServer"

configuredUsing

- Source: CiscoUCSBladeServer
- Target: CiscoUCSServiceProfile
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-1/blade-1-CiscoUCSBladeServer" target="non-windows:IBMESX2V7:V6-org-root/ls-11-CiscoUCSServiceProfile"

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: AssociationState Agent attribute: KV6.Server_Health_Summary.Association Description: The relationship between the server and the service profile. Example: associated
- CDM attribute: AvailabilityState
 - Agent attribute: KV6.Server_Health_Summary.Availability Description: The availability status of the blade server that is associated with a service profile. Example: Unavailable
- CDM attribute: CheckPointStatus Agent attribute: KV6.Server_Health_Summary.Check_Point Description: The check point status of the blade server. Example: Discovered

• CDM attribute: DiscoveryState

Agent attribute: KV6.Server_Health_Summary.Discovery Description: The discovery status of the blade server. Example: Complete

CDM attribute: SlotStatus
 Agent attribute: KV6.Server_Health_Summary.Presence
 Description: The slot status of the blade server.
 Example: Equipped

• CDM attribute: SlotId

Agent attribute: KV6.Server_Health_Summary.Presence Description: The slot ID of the blade server. Example: Equipped

• CDM attribute: AdministrationState Agent attribute: KV6.Server_Health_Summary.Admin_State Description: The administrator status of the blade server. Example: In-service

CiscoUCSpool class

This class displays information about a pool that represents a predefined range. The Cisco UCS pool includes server pool, UUID suffix pool, MAC pool, SAN WWPN pool, and SAN WWNN pool.

CDM class name

sys/cisco/ucs/CiscoUCSPool

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: PoolSize Agent attribute: KV6.Server_Pool_Details.Size Description: The current size of the server pool. Example: 3
- CDM attribute: NumberOfAssigned Agent attributes: KV6.Server_Pool_Details.Assigned, KV6.UUID_Suffix_Pool_Details.Assigned, KV6.MAC_Pool_Details.Assigned, KV6.SAN_Pool_Details.Assigned Description: The number of elements in the pool that are assigned to a component. Example: 2
- CDM attribute: PercentageUtilization

Agent attributes: KV6.UUID_Suffix_Pool_Details.Utilization, KV6.MAC_Pool_Details.Utilization, KV6.SAN_Pool_Details.Utilization Description: The percentage of elements in the pool that are assigned to a component. Example: 2

• CDM attribute: UUIDPrefix

Agent attributes: KV6.UUID_Suffix_Pool.Prefix Description: The prefix for the UUID suffix pool. Example: FE171014-C406-11E0

CiscoUCSServiceProfile class

This class displays information about the service profile that is used to define rules for the storage and networking characteristics.

CDM class name

sys/cisco/ucs/CiscoUCSServiceProfile

Relationships

configuredUsing

- Source: CiscoUCSBladeServer
- Target: CiscoUCSServiceProfile
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-1/blade-1-CiscoUCSBladeServer" target="non-windows:IBMESX2V7:V6-org-root/ls-11-CiscoUCSServiceProfile"

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: AssignedState
 - Agent attribute: KV6.Service_Profile_Health.Assigned_State Description: The assigned status of the service profile. Example: Assigned
- CDM attribute: AssocState

Agent attribute: KV6.Service_Profile_Health.Assoc_State Description: The association state between the logical server and the computer resource. Example: Associated

 CDM attribute: ProfileType Agent attribute: KV6.Service_Profile_Health.Type Description: The type of service profile. Example: Pro-11

Chip class

This class displays the configuration details of the blade server CPU.

CDM class name

phys/physcomp/Chip

Relationships

contains

- Source: Board
- Target: Chip
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-1/blade-1/board-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-1/blade-1/board/cpu-1-Chip"

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: ProcessorArchitecture
 - Agent attribute: KV6.Server_CPU_Configuration_Details.Processor_Architecture Description: The processor architecture of the blade server CPU. Example: Xeon
- CDM attribute: NumberOfCores

Agent attribute: KV6.Server_CPU_Configuration_Details.Number_of_Cores Description: The current number of cores in the blade server CPU. Example: 4

• CDM attribute: SocketName

Agent attribute: KV6.Server_CPU_Configuration_Details.Socket_Designation Description: The socket name of the blade server CPU. Example: CPU1

• CDM attribute: SteppingLevel

Agent attribute: KV6.Server_CPU_Configuration_Details.Stepping Description: The current CPU stepping number of the blade server CPU. Example: 4

CDM attribute: Threads

Agent attribute: KV6.Server_CPU_Configuration_Details.Threads Description: The current number of threads in the blade server CPU. Example: 8 • CDM attribute: Model

Agent attribute: KV6.Server_CPU_Configuration_Details.Model Description: The model number of the blade server CPU. Example: N10-S6100

• CDM attribute: Revision

Agent attribute: KV6.Server_CPU_Configuration_Details.Revision Description: The revision number of the blade server CPU. Example: 0

• CDM attribute: SerialNumber

Agent attributes: KV6.Server_CPU_Configuration_Details.Serial Description: The serial number of the blade server CPU. Example: JAB121700UL

CDM attribute: Manufacturer

Agent attributes: KV6.Server_CPU_Configuration_Details.Vendor Description: The vendor name of the Cisco UCS component. Example: Cisco Systems

CDM attribute: NumberOfCoresEnabled

Agent attribute: KV6.Server_CPU_Configuration_Details.Cores_Enabled Description: The number of enabled cores in the blade server CPU. Example: 4

 CDM attribute: Speed Agent attribute: KV6.Server_CPU_Configuration_Details.Speed Description: The speed (in GHz) of the blade server CPU. Example: 2.93

CiscoUCSInterfaceCard class

This class displays information about the interface cards that are available in the blade server adapter.

CDM class name

sys/cisco/ucs/CiscoUCSInterfaceCard

Relationships

PhysicallyContains

- Source: Board
- Target: CiscoUCSInterfaceCard
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-9/blade-8/adaptor-1-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-9/blade-8/adaptor-1/host-eth-2-NIC-CiscoUCSInterfaceCard"

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: CardType Agent attribute: KV6.Server_NIC_Configuration_Details.If_Type Description: The type of NIC. Example: Physical
- CDM attribute: Name

Agent attribute: KV6.Server_CPU_Configuration_Details.Socket_Designation Description: The socket name of the blade server CPU. Example: CPU1

• CDM attribute: Purpose

Agent attributes: KV6.Server_NIC_Configuration_Details.Purpose, KV6.Server_HBA_Configuration_Details.Purpose Description: The purpose of the interface card. Example: General • CDM attribute: PciAddress

Agent attributes: KV6.Server_HBA_Configuration_Details.PCI_Address Description: The PCI address of the HBA. Example: 6

CDM attribute: Side

Agent attributes: KV6.Server_DCE_Interface_Summary.Side Description: The side of the DCE interface. Example: Right

DiskDrive class

This class displays information about the blade server disk.

CDM class name

dev/DiskDrive

Relationships

PhysicallyContains

- Source: Board
- Target: DiskDrive
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7/board/storage-SAS-1-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7/board/storage-SAS-1/ disk-2-DiskDrive"

Board class

This class includes several attributes of motherboard, adapter, storage controller, memory and memory array unit, chassis fan and I/O module, fixed and expansion module.

CDM class name

sys/cisco/ucs/CiscoUCSInterfaceCard

Relationships

PhysicallyContains

- Source: Board
- Target: CiscoUCSInterfaceCard
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-9/blade-8/adaptor-1-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-9/blade-8/adaptor-1/host-eth-2-NIC-CiscoUCSInterfaceCard"

PhysicallyContains

- Source: Board
- Target: Board
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7/board-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7/board/memarray-1-Board"

PhysicallyContains

- Source: Board
- Target: DiskDrive
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7/board/storage-SAS-1-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7/board/storage-SAS-1/ disk-2-DiskDrive"

PhysicallyContains

- Source: CiscoUCSBladeServer
- Target: Board

• Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7-CiscoUCSBladeServer" target="non-windows:IBMESX2V7:V6-sys/chassis-12/blade-7/board-Board"

PhysicallyContains

- Source: Board
- Target: CiscoUCSInterfaceCard
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-9/blade-8/adaptor-1-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-9/blade-8/adaptor-1/host-eth-2-NIC-CiscoUCSInterfaceCard"

physicallyContains

- Source: CiscoUCSChassis
- Target: Board
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-2-CiscoUCSChassis" target="non-windows:IBMESX2V7:V6-sys/chassis-2/slot-1/mgmt-Board"

physicallyContains

- Source: CiscoUCSFabricInterconnect
- Target: Board
- Example: source="non-windows:IBMESX2V7:V6-sys/switch-B-CiscoUCSFabricInterconnect" target="non-windows:IBMESX2V7:V6-sys/switch-B/slot-2-Board"

contains

- Source: Board
- Target: Chip
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-1/blade-1/board-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-1/blade-1/board/cpu-1-Chip"

contains

- Source: Board
- Target: Fan
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12/fan-module-1-8-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-12/fan-module-1-8/fan-2-Fan"

contains

- Source: Board
- Target: CiscoUCSPort
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12/slot-2-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-12/slot-2/host/port-8-CiscoUCSPort"

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: Tray
 - Agent attribute: KV6.Chassis_Fan_Module_Configuration.Tray Description: The current tray number of the chassis fan module. Example: 1
- CDM attribute: SlotType
 - Agent attribute: KV6.FI_Fixed_Expansion_Configuration.Slot_Type Description: The slot type of the fabric interconnect module. Example: Expansion
- CDM attribute: NumberofPorts

Agent attribute: KV6.FI_Fixed_Expansion_Configuration.Number_of_Ports Description: The number of ports that are currently available in the fabric interconnect module. Example: 20

- CDM attribute: ModuleSide
 - Agent attribute: KV6.Chassis_IO_Module_Configuration.Side Description: The side of the chassis I/O module. Example: Left

PowerSupply class

This class displays information about the Cisco UCS power supply unit (PSU).

CDM class name

phys/physpkg/PowerSupply

Relationships

contains

- Source: CiscoUCSFabricInterconnect
- Target: PowerSupply
- Example: source="non-windows:IBMESX2V7:V6-sys/switch-B-CiscoUCSFabricInterconnect" target="non-windows:IBMESX2V7:V6-sys/switch-B/psu-2-PowerSupply"

contains

- Source: CiscoUCSChassis
- Target: PowerSupply
- Example: contains source="non-windows:IBMESX2V7:V6-sys/chassis-12-CiscoUCSChassis" target="non-windows:IBMESX2V7:V6-sys/chassis-12/psu-4-PowerSupply"

Fan class

This class displays information about the Cisco UCS fan.

CDM class name

phys/physpkg/Fan

Relationships

contains

- Source: CiscoUCSFabricInterconnect
- Target: Fan
- Example: source="non-windows:IBMESX2V7:V6-sys/switch-B-CiscoUCSFabricInterconnect" target="non-windows:IBMESX2V7:V6-sys/switch-B/fan-2-Fan"

contains

- Source: Board
- Target: Fan
- Example: source="non-windows:IBMESX2V7:V6-sys/chassis-12/fan-module-1-8-Board" target="non-windows:IBMESX2V7:V6-sys/chassis-12/fan-module-1-8/fan-2-Fan"

Appendix C. Integration with Tivoli Business Service Manager

The Cisco UCS agent provides data to create, update the status of, and view IBM Tivoli Business Service Manager services.

The Tivoli Management Services Discovery Library Adapter (DLA) and Discovery Library Toolkit provides data for the Tivoli Business Service Manager service models. The Tivoli Integration Facility (EIF) probe updates the status of these services, and you use the Tivoli Enterprise Portal to view the data for the services. To implement the integration of the agent with Tivoli Business Service Manager, perform the integration tasks.

Components for integrating with Tivoli Business Service Manager

The data for integrating with Tivoli Business Service Manager is supplied through the following components: Tivoli Management Services Discovery Library Adapter (DLA) and Discovery Library Toolkit, Tivoli Integration Facility (EIF) probe, and Tivoli Enterprise Portal.

Tivoli Management Services Discovery Library Adapter (DLA) and Discovery Library Toolkit

By using data from the Tivoli Management Services Discovery Library Adapter, you can build Tivoli Business Service Manager service models that include resources monitored by the Cisco UCS agent.

The DLA files can be imported directly into Tivoli Business Service Manager using the Discovery Library Toolkit or they can be loaded into IBM Tivoli Application Dependency Discovery Manager (TADDM) and then fed into Tivoli Business Service Manager using the Discovery Library Toolkit.

See the following sources for more information about the DLA and Discovery Library Toolkit:

- Resources and relationships that are discovered by the Cisco UCS agent and included in Tivoli Management Services DLA files: Appendix B, "Discovery Library Adapter for the Cisco UCS agent," on page 749
- Using the Tivoli Management Services DLA: IBM Tivoli Monitoring Administrator's Guide
- Using the Discovery Library Toolkit: Tivoli Business Service Manager Customization Guide

Tivoli Integration Facility (EIF) probe

Situation events detected by the Cisco UCS agent can update the status of services in Tivoli Business Service Manager.

The situation events are forwarded from IBM Tivoli Monitoring to the Netcool/OMNIbus Probe for the Tivoli Event Integration Facility. The Cisco UCS agent provides a probe rules file that updates its events with information to identify the affected service in Tivoli Business Service Manager. The EIF probe then forwards the events to the Netcool/OMNIbus ObjectServer. Tivoli Business Service Manager monitors the Netcool/OMNIbus ObjectServer for new events and updates the status of affected services.

See the following sources for more information about event integration:

- Installation (using an existing EIF probe and Netcool/OMNIbus ObjectServer installation or using Tivoli Business Service Manager to install these components): Netcool/OMNIbus Information Center or the *Tivoli Business Service Manager Installation Guide*.
- Setting up event integration between IBM Tivoli Monitoring, the EIF probe, and the Netcool/OMNIbus ObjectServer: *IBM Tivoli Monitoring Installation and Setup Guide*.

• Configuring the EIF probe to use the Cisco UCS agent rules file after the EIF probe has been installed and configured for event integration with IBM Tivoli Monitoring: "Configuring the Tivoli Event Integration Facility (EIF) probe to enrich events"

Tivoli Enterprise Portal

You can use the integration of the Tivoli Enterprise Portal with Tivoli Business Service Manager to view the services in the Tivoli Business Service Manager console.

For more detailed examination and analysis, you can easily link from the Tivoli Business Service Manager console to the Tivoli Enterprise Portal to view the data within the Cisco UCS agent.

Tasks to integrate the agent with Tivoli Business Service Manager

To integrate the Cisco UCS agent with Tivoli Business Service Manager, you must install and configure the required components. Then, you can view the data in the Tivoli Integrated Portal

To integrate the Cisco UCS agent with Tivoli Business Service Manager and view the data, complete the following tasks:

- Install the Discovery Library Toolkit on the Tivoli Business Service Manager server.
- Configure the Tivoli Event Integration Facility (EIF) probe to enrich Cisco UCS agent events.
- Create a service in the Tivoli Business Service Manager console that you want to monitor.
- Create a data source mapping for each data source that you want to access within the Tivoli Business Service Manager.
- Configure an additional IBM Tivoli Monitoring web service for each Tivoli Enterprise Portal Server.
- View data in the Tivoli Enterprise Portal for the services that you have created to monitor through Tivoli Business Service Manager.

Installing the Discovery Library Toolkit on the Tivoli Business Service Manager

You must install the Discovery Library Toolkit on the Tivoli Business Service Manager server.

The Discovery Library Toolkit imports data from the DLA files and TADDM, which includes information about the hardware and the applications that are discovered by the source.

See "Installing the Discovery Library Toolkit" in the Tivoli Business Service Manager Installation Guide.

Configuring the Tivoli Event Integration Facility (EIF) probe to enrich events

The Netcool/OMNIbus Probe for Tivoli Event Integration Facility (EIF) forwards the Cisco UCS agent events that are received from IBM Tivoli Monitoring to the Netcool/OMNIbus ObjectServer. Tivoli Business Service Manager monitors the Netcool/OMNIbus ObjectServer for new events, and updates the status of affected services. The Cisco UCS agent provides a probe rules include file that updates its events with information to identify the affected service in Tivoli Business Service Manager.

Before you begin

Install and configure the Netcool/OMNIbus ObjectServer and EIF probe and set up event integration between IBM Tivoli Monitoring and Netcool/OMNIbus.

About this task

To enable event enrichment, configure the EIF probe to use the rules file for the agent.

Procedure

- Locate the Cisco UCS agent rules file (kv6_tbsm.rules) on a computer system where the Cisco UCS agent, Tivoli Enterprise Monitoring Server, or Tivoli Enterprise Portal Server is installed. The file is in the following locations:
 - On Windows systems

The file is in the *installdir*\cms\TECLIB directory of the monitoring server, in the *installdir*\cnps\TECLIB directory of the portal server, the *installdir*\TMAITM6\EIFLIB directory of the agent, or the *installdir*\TMAITM6_x64\EIFLIB directory of the agent, where *installdir* is the IBM Tivoli Monitoring or Tivoli Monitoring for Virtual Environments installation directory.

• On Linux and UNIX systems

The file is in the *installdir*/tables/*cicatrsq*/TECLIB directory of the monitoring server or in the *installdir/platform/xx*/TECLIB directory of the agent, where *installdir* is the IBM Tivoli Monitoring or Tivoli Monitoring for Virtual Environments directory, *platform* is the architecture directory for the agent, and *xx* is the product code for the agent.

- 2. Copy the kv6_tbsm.rules file to the following directory on the computer system where the EIF probe is installed:
 - On Windows systems

%OMNIHOME%\probes*arch*

On UNIX systems
 \$0MNIHOME/probes/arch

Where:

OMNIHOME

System-defined variable defining the installation location of Netcool/OMNIbus

- **arch** Operating system directory where the probe is installed; for example, solaris2 when running on a Solaris system, and win32 for a Windows system.
- 3. Edit the tivoli_eif.rules file and uncomment the include statement for kv6_tbsm.rules. (The tivoli_eif.rules file is located in the same directory as the kv6_tbsm.rules file.) If you are using a version of the tivoli_eif.rules file without an include statement for kv6_tbsm.rules, add the following line after the include statement for itm_event.rules:

include "kv6_tbsm.rules"

4. Restart the EIF probe.

Creating a service in Tivoli Business Service Manager

You must create a service in the Tivoli Business Service Manager console for each service that you want to monitor.

To create the services that you want to monitor in the Tivoli Business Service Manager console, see "Configuring services" in the *IBM Tivoli Business Service Manager Service Configuration Guide*.

Creating a data source mapping for each data source

You can create a data source mapping for each data source that you want to access within Tivoli Business Service Manager.

Also, you can create the data fetchers and use the data to create incoming status rules that are populated in your service templates.

For more information, see "Data sources" and "Data fetchers" in the *IBM Tivoli Business Service Manager Service Configuration Guide*.

Configuring additional IBM Tivoli Monitoring web services

You can configure additional IBM Tivoli Monitoring web services for each Tivoli Enterprise Portal Server.

To configure an additional IBM Tivoli Monitoring web service for each Tivoli Enterprise Portal server, see "Configure TBSM charts" in the *IBM Tivoli Business Service Manager Scenarios Guide*.

Viewing data in the Tivoli Enterprise Portal

From Tivoli Business Service Manager, you can open the Tivoli Enterprise Portal and view the Cisco UCS agent.

You can also launch Tivoli Business Service Manager from the Tivoli Enterprise Portal.

For more information about launching applications, see "Launching to and from applications" in the *Tivoli Business Service Manager Customization Guide*.

Appendix D. Documentation library

Various publications are relevant to the use of the IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS.

For information about how to access and use the publications, see *Using the publications* (http://www-01.ibm.com/support/knowledgecenter/SSTFXA_6.3.0/com.ibm.itm.doc_6.3/common/using_publications.htm).

To find publications from the previous version of a product, click **Previous versions** under the name of the product in the **Contents** pane.

IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS library

The documentation for this agent and other product components is in the IBM Tivoli Monitoring for Virtual Environments Knowledge Center (http://www-01.ibm.com/support/knowledgecenter/SS9U76_7.2.0.3/com.ibm.tivoli.itmvs.doc/welcome_ve72fp3.htm).

One document is specific to the Cisco UCS agent. The IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS User's Guide provides agent-specific information for configuring, using, and troubleshooting the Cisco UCS agent.

The **Prerequisites** topic in the information center contains information about the prerequisites for each component.

Use the information in the user's guide for the agent with the *Tivoli Enterprise Portal User's Guide* to monitor Cisco UCS resources.

Prerequisite publications

To use the information in this publication effectively, you must have some prerequisite knowledge.

See the following publications to gain the required prerequisite knowledge:

- IBM Tivoli Monitoring Administrator's Guide
- IBM Tivoli Monitoring Agent Builder User's Guide
- IBM Tivoli Monitoring Command Reference
- IBM Tivoli Monitoring Installation and Setup Guide
- IBM Tivoli Monitoring High Availability Guide for Distributed Systems
- IBM Tivoli Monitoring: Messages
- IBM Tivoli Monitoring Troubleshooting Guide
- IBMTivoli Monitoring: IBM i OS Agent User's Guide
- IBM Tivoli Monitoring: Linux OS Agent User's Guide
- IBM Tivoli Monitoring: UNIX OS Agent User's Guide
- IBM Tivoli Monitoring: Windows OS Agent User's Guide
- Tivoli Enterprise Portal User's Guide
- IBM Tivoli Performance Analyzer User's Guide
- IBM Tivoli Warehouse Proxy Agent User's Guide
- IBM Tivoli Warehouse Summarization and Pruning Agent User's Guide

Related publications

The publications in related information centers provide useful information.

See the following information centers, which you can find by accessing Tivoli Documentation Central (http://www.ibm.com/tivoli/documentation):

- Tivoli Monitoring
- Tivoli Application Dependency Discovery Manager
- Tivoli Business Service Manager
- Tivoli Common Reporting
- Tivoli Enterprise Console

Other sources of documentation

You can obtain additional technical documentation about monitoring products from other sources.

See the following sources of technical documentation about monitoring products:

• Service Management Connect (SMC)

For introductory information about SMC, see IBM Service Management Connect (http://www.ibm.com/developerworks/servicemanagement/).

For information about Tivoli products, see the Application Performance Management community on SMC (http://www.ibm.com/developerworks/servicemanagement/apm/index.html).

Connect, learn, and share with Service Management professionals. Get access to developers and product support technical experts who provide their perspectives and expertise. You can use SMC for these purposes:

- Become involved with transparent development, an ongoing, open engagement between external users and developers of Tivoli products where you can access early designs, sprint demos, product roadmaps, and pre-release code.
- Connect one-on-one with the experts to collaborate and network about Tivoli and Integrated Service Management.
- Benefit from the expertise and experience of others using blogs.
- Collaborate with the broader user community using wikis and forums.
- IBM Integrated Service Management Library (http://www.ibm.com/software/brandcatalog/ ismlibrary/) is an online catalog that contains integration documentation as well as other downloadable product extensions.
- IBM Redbook publications (http://www.redbooks.ibm.com/) include Redbooks[®] publications, Redpapers, and Redbooks technotes that provide information about products from platform and solution perspectives.
- Technotes (http://www.ibm.com/support/entry/portal/software), which are found through the IBM Software Support website, provide the latest information about known product limitations and workarounds.

Notices

This information was developed for products and services offered in the US. This material might be available from IBM in other languages. However, you may be required to own a copy of the product or product version in that language in order to access it.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing IBM Corporation North Castle Drive, MD-NC119 Armonk, NY 10504-1785 US

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing Legal and Intellectual Property Law IBM Japan Ltd. 19-21, Nihonbashi-Hakozakicho, Chuo-ku Tokyo 103-8510, Japan

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement might not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Director of Licensing IBM Corporation North Castle Drive, MD-NC119 Armonk, NY 10504-1785 US

Such information may be available, subject to appropriate terms and conditions, including in some cases payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

The performance data discussed herein is presented as derived under specific operating conditions. Actual results may vary.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

Statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Each copy or any portion of these sample programs or any derivative work must include a copyright notice as follows:

© (your company name) (year).

Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. 2015. If you are viewing this information in softcopy form, the photographs and color illustrations might not be displayed.

Trademarks

IBM, the IBM logo, and ibm.com[®] are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at Copyright and trademark information (www.ibm.com/legal/copytrade.shtml).

Intel, Intel logo, and Intel Xeon, are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.



Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Index

Special characters

% Active Fans attribute 79, 98, 129
% Assignment attribute 427
% Port Utilization attribute 158
% Slot Utilization attribute 79, 99
% Utilization attribute 209, 352, 480

Α

Access Card Id attribute 495 Access Port Id attribute 495 Acknowledged attribute 134 ACPI10 Support attribute 219 Activate Status (Kernel) attribute 156 Activate Status (System) attribute 156 Activate Status attribute 77, 128, 300, 393 Active Fans attribute 79, 99, 130 activities 581 Adapter DN attribute 253, 255, 266, 272, 274, 277, 279, 282, 285, 298, 302, 305, 329, 331, 348, 354, 356, 367, 374, 376, 378, 382, 384, 387, 390, 395, 398, 421, 424, 433 Adapter ID attribute 253, 255, 266, 272, 275, 277, 280, 282, 285, 298, 302, 305, 329, 331, 348, 354, 356, 367, 374, 376, 379, 382, 384, 387, 390, 395, 398, 421, 424, 433 Adapter Type attribute 273, 275, 277, 280, 282, 285, 298, 348, 374, 376, 379, 382, 385, 388, 390, 433 additional information attributes 39 situations 513 Take Action commands 575 Workspaces 15 Address attribute 502 Admin State attribute 173, 198, 307, 401, 446, 456, 459, 463, 464.477 Affected Object DN attribute 103 agent functions 1 problems and workarounds 639 Agent Management Services 4 Alarm Trigger DN attribute 443 Align (errors) attribute 56, 108, 160 Ambient Temperature (C) attribute 87, 140, 327, 337 Appliance Port DN attribute 444 ASIC Temperature (C) attribute 87, 140 Assert Nmi On Perr attribute 220 Assert Nmi On Serr attribute 221 Assigned attribute 209, 243, 246, 248, 250, 352, 427, 480 Assigned State attribute 436 Assigned To attribute 243, 246, 248, 251 Assoc State attribute 436 Associated Server attribute 437 Association State attribute 308, 401, 477 ATS Support attribute 214 attribute group 55 attribute groups Chassis Backplane LAN Error 55 Chassis Backplane LAN Loss 58 Chassis Backplane LAN Pause 61 Chassis Backplane LAN Statistics 63 Chassis Configuration Details 66

attribute groups (continued) Chassis Fan Health Summary 68 Chassis Fan Module Configuration 70 Chassis Fan Module Health 72 Chassis Fan Module Temperature 74 Chassis Fan Statistics 75 Chassis Hardware Firmware 77 Chassis Health Summary 78 Chassis IO Backplane Port Health 81 Chassis IO Module Configuration 83 Chassis IO Module Health Summary 85 Chassis IO Module Temperature 87 Chassis Power Statistics 88 Chassis PSU Configuration 90 Chassis PSU Health Summary 91 Chassis PSU Statistics 93 Chassis Slot Details 95 Chassis Slot Utilization Summary 97 ChassisAndFabricExtender Health Summary 98 Cisco UCS Topology 102 Faults 103 FEX Backplane Port Config 106 FEX Backplane Port Error 108 FEX Backplane Port Loss 111 FEX Backplane Port Pause 113 FEX Backplane Statistics 115 FEX Environment Statistics 119 FEX Fabric Port Config 120 FEX Fan Configuration Details 122 FEX Fan Health Summary 124 FEX Fan Speed Statistics 126 FEX Firmware 128 FEX Health Summary 129 FEX IO Backplane Port Health 132 FEX IO Fabric Port Health 134 FEX IO Module Configuration 136 FEX IO Module Health Summary 138 FEX IO Module Temperature 139 FEX PSU Configuration Details 141 FEX PSU Environment Statistics 143 FEX PSU Health Summary 144 FI Configuration Details 146 FI Fan Configuration Details 148 FI Fan Health Summary 149 FI Fixed Expansion Configuration 151 FI Fixed Expansion Port Health 153 FI Hardware Firmware 155 FI Health Summary 158 FI LAN Error Statistics 159 FI LAN Hist Statistics 162 FI LAN Loss Statistics 167 FI LAN Pause Statistics 169 FI LAN Port Channel Aggregate Statistics 171 FI LAN Port Channel Statistics 173 FI LAN Statistics 178 FI Port Summary 181 FI Port Usage 183 FI PSU Configuration Details 184 FI PSU Health Summary 185 FI PSU Statistics 188 FI SAN Error Statistics 189

attribute groups (continued) FI SAN Hist Statistics 192 FI SAN Port Channel Aggregate Statistics 196 FI SAN Port Channel Statistics 198 FI SAN Statistics 204 FI System Statistics 205 FI Temperature Statistics 207 list of all 39 MAC Pool Details 209 overview 39 Performance Object Status 211 Policy BIOS Advanced Configurations 214 Policy BIOS Configuration Summary 218 Policy BIOS Configurations 220 Policy Boot Configuration Summary 223 Policy Boot Order Configuration Details 224 Policy IPMI Access Profile Configuration Summary 226 Policy IPMI User Configuration Details 227 Policy iSCSI Boot Order Configuration Summary 228 Policy iSCSI Static Target Interface Configuration Details 229 Policy iSCSI vNIC Configuration Summary 231 Policy LAN Boot Order Configuration Summary 233 Policy QoS Configuration Details 235 Policy Scrub Configuration Details 236 Policy Serial Over LAN Configuration Details 237 Policy Storage Boot Order Configuration Summary 239 Policy Virtual Host Interface Configuration Details 240 Policy Virtual Media Boot Order Configuration Details 241 Policy vNICvHBA Placement Configuration Summary 242 Pool Initiator Configuration Details 243 Pool MAC Address Configuration Details 245 Pool MAC Configuration Details 246 Pool Server Configuration Details 247 Pool UUID Block Configuration Details 249 Pool UUID Suffix Configuration Details 250 Pool WWN Initiator Block Configuration Details 252 RM Server Adapter Configuration 253 RM Server Adapter Health Summary 255 RM Server BIOS Firmware 256 RM Server Configuration Details 258 RM Server CPU Configuration 259 RM Server CPU Health Summary 262 RM Server CPU Statistics 264 RM Server DCE Interface Health 266 RM Server Disk Configuration 268 RM Server Disk Health Summary 270 RM Server Ether Port Comm 272 RM Server Ether Port Error 274 RM Server Ether Port Large 276 RM Server Ether Port Outsized 279 RM Server Ether Port Packets 282 RM Server Ether Port Small 284 RM Server Fan Configuration 287 RM Server Fan Health Summary 289 RM Server Fan Module Details 291 RM Server Fan Module Health 293 RM Server Fan Module Temperature 295 RM Server Fan Statistics 296 RM Server FC Port Statistics 298 RM Server Firmware 300 RM Server HBA Configuration 302 RM Server HBA Health Summary 305 RM Server Health Summary 307 RM Server Memory Array Health 309 RM Server Memory Array Statistics 311

attribute groups (continued) RM Server Memory Array Unit 313 RM Server Memory Unit Details 315 RM Server Memory Unit Health 317 RM Server Memory Unit Temp 320 RM Server Motherboard Details 322 RM Server Motherboard Health 323 RM Server Motherboard Power 325 RM Server Motherboard Temp 327 RM Server NIC Configuration 328 RM Server NIC Health Summary 331 RM Server PSU Configuration 334 RM Server PSU Health Summary 335 RM Server PSU Statistics 337 RM Server Storage Controller 339 RM Server Storage Disk 341 RM Server Storage Disk Health 343 RM Server Storage Health Summary 345 RM Server vNIC Statistics 348 RM Storage Firmware 350 SAN Pool Details 352 Server Adapter Configuration 354 Server Adapter Health Summary 356 Server Configuration Details 358 Server CPU Configuration Details 360 Server CPU Health Summary 363 Server CPU Statistics 365 Server DCE Interface Summary 367 Server Disk Configuration 369 Server Disk Health Summary 371 Server Ether Port Communication 374 Server Ether Port Error 376 Server Ether Port Large 378 Server Ether Port Outsized 382 Server Ether Port Packets 384 Server Ether Port Small 387 Server FC Port Statistics 390 Server Hardware Firmware 392 Server HBA Configuration Details 394 Server HBA Health Summary 398 Server Health Summary 400 Server Memory Array Statistics 403 Server Memory Array Unit Details 404 Server Memory Array Unit Health 407 Server Memory Unit Configuration 409 Server Memory Unit Temperature 412 Server Motherboard Configuration 414 Server Motherboard Health 415 Server Motherboard Power 418 Server Motherboard Temperature 419 Server NIC Configuration Details 421 Server NIC Health Summary 424 Server Pool Details 427 Server Storage Controller 428 Server Storage Controller Health 431 Server vNIC Statistics 433 Service Profile Health 436 Service Profiles vHBA Health Summary 439 Service Profiles vNIC Health Summary 441 Sys Mon Alarm Trigger Configuration Details 443 Sys Mon Appliance Port Configuration Details 444 Sys Mon Core File Exporter Configuration Details 446 Sys Mon Fault Collection Policy Configuration Details 447 Sys Mon FCoE Storage Port Configuration Details 449 Sys Mon Port Channel Configuration Details LAN 450 Sys Mon Port Channel Configuration Details SAN 451 Sys Mon Server Port Configuration Details 453

attribute groups (continued) Sys Mon Storage Port Configuration Details 454 Sys Mon Syslog Local Destination Configuration Details 456 Sys Mon Syslog Local Sources Configuration Details 457 Sys Mon Syslog Remote Destination Configuration Details 459 Sys Mon Threshold Policy Configuration Summary 460 Sys Mon Threshold Policy Definition Configuration Summary 461 Sys Mon Traffic Monitoring Session Health Summary LAN 463 Sys Mon Traffic Monitoring Session Health Summary SAN 464 Sys Mon Uplink Ethernet Port Configuration Details 466 Sys Mon Uplink FC Port Configuration Details 468 Sys Mon vHBA Configuration Details 469 Sys Mon VLAN Configuration Details 471 Sys Mon vNIC Configuration Details 472 Sys Mon VSAN Configuration Details 473 Thread Pool Status 474 UCS Servers Health Summary 477 UUID Suffix Pool Details 480 VMware Datacenter Configuration Details 481 VMware DVS Configuration Details 483 VMware ESX Host Server Health Summary 485 VMware Folder Configuration Details 487 VMware Port Profile Configuration Summary 488 VMware Profile Client Configuration Details 490 VMware vCenter Folder Configuration Summary 492 VMware vCenter Health Summary 493 VMware VIF Configuration Details 495 VMware Virtual Machine Health Summary 497 VMware vLAN Configuration Details 499 VMware vNIC Health Summary 500 VMware vNIC Interface Configuration Details 502 attributes 55 % Active Fans 79, 98, 129 % Assignment 427 % Port Utilization 158 % Slot Utilization 79, 99 % Utilization 209, 352, 480 Access Card Id 495 Access Port Id 495 Acknowledged 134 ACPI10 Support 219 Activate Status 77, 128, 300, 393 Activate Status (Kernel) 156 Activate Status (System) 156 Active Fans 79, 99, 130 Adapter DN 253, 255, 266, 272, 274, 277, 279, 282, 285, 298, 302, 305, 329, 331, 348, 354, 356, 367, 374, 376, 378, 382, 384, 387, 390, 395, 398, 421, 424, 433 Adapter ID 253, 255, 266, 272, 275, 277, 280, 282, 285, 298, 302, 305, 329, 331, 348, 354, 356, 367, 374, 376, 379, 382, 384, 387, 390, 395, 398, 421, 424, 433 Adapter Type 273, 275, 277, 280, 282, 285, 298, 348, 374, 376, 379, 382, 385, 388, 390, 433 additional information 39 Address 502 Admin State 173, 198, 307, 401, 446, 456, 459, 463, 464, 477 Affected Object DN 103 Alarm Trigger DN 443 Align (errors) 56, 108, 160 Ambient Temperature (C) 87, 140, 327, 337 Appliance Port DN 444 ASIC Temperature (C) 87, 140

attributes (continued) Assert Nmi On Perr 220 Assert Nmi On Serr 221 Assigned 209, 243, 246, 248, 250, 352, 427, 480 Assigned State 436 Assigned To 243, 246, 248, 251 Assoc State 436 Associated Server 437 Association State 308, 401, 477 ATS Support 214 Audits 457 Authentication Profile 229, 231 Availability State 308, 401, 477 Available Memory 205 Average Collection Duration 211 Backplane Ether Rx Stats DN 63 Backplane Ether Tx Stats DN 63 Backplane Port DN 56, 58, 61, 63, 82, 108, 111, 113, 132 Backplane Port Error Stats DN 56, 108 Backplane Port Loss Stats DN 59, 111 Backplane Port Pause Stats DN 61, 114 Backup Version 77, 128, 300, 393 Bad CRC (packets) 275, 376 Bad Length (packets) 275, 377 Bank 315, 409 BAUD Rate 221 BIOS Dn 256 BIOS Policy DN 214, 219, 221, 437 BIOS Settings Scrub 236 Blade Server DN 95, 97, 354, 356, 358, 360, 363, 365, 367, 369, 371, 374, 377, 379, 382, 385, 388, 391, 393, 395, 398, 401, 403, 405, 407, 409, 412, 414, 416, 418, 419, 422, 424, 428, 431, 434 Blade Server ID 96, 97, 355, 356, 358, 360, 363, 365, 367, 369, 372, 374, 377, 379, 382, 385, 388, 391, 393, 395, 398, 401, 403, 405, 407, 409, 412, 414, 416, 418, 419, 422, 425, 429, 431, 434 Blade Server Model 96, 97 Blade Server Type 96, 97 Block Size (Bytes) 268, 369 Boot Loader Version 351 Boot Option Retry 221 Boot Policy DN 223, 224, 228, 234, 239, 241, 437 Boot Target LUN 244 Boot Target WWPN 244 Boot Unit Version 351 Boot-loader Version 156 Border Card Id 495 Border Port Id 495 Broadcast (packets) 273, 374 Broadcast Packets Rx 63, 115, 162, 173, 178 Broadcast Packets Tx 64, 116, 162, 173, 178 Burst(Bytes) 235 Bytes Delta Avg Rx 192, 199 Bytes Delta Avg Tx 192, 199 Bytes Delta Max Rx 193, 199 Bytes Delta Max Tx 193, 199 Bytes Delta Min Rx 193, 199 Bytes Delta Min Tx 193, 199 Bytes Delta Rx 193, 200 Bytes Delta Tx 193, 200 Bytes Rx 194, 200, 204, 348, 434 Bytes Tx 194, 200, 204, 348, 434 Cache Hit Percent 211 Cache Hits 211 Cache Misses 211 Cached Memory 206

attributes (continued) Capacity (MB) 315, 409 Card DN 273, 275, 277, 280, 282, 285, 348, 374, 377, 379, 382, 385, 388, 434 Card ID 273, 275, 277, 280, 282, 285, 349, 375, 377, 379, 382, 385, 388, 434 Carrier Sense (errors) 59, 111, 167 Cause 103 Chassis Backplane LAN Error 55 Chassis Backplane LAN Loss 58 Chassis Backplane LAN Pause 61 Chassis Backplane LAN Statistics 63 Chassis Configuration Details 66 Chassis DN 56, 59, 61, 64, 66, 68, 70, 72, 74, 75, 77, 79, 82, 83, 85, 87, 88, 90, 91, 93, 96, 97, 183, 355, 357, 358, 360, 363, 365, 367, 369, 372, 375, 377, 379, 383, 385, 388, 391, 393, 395, 398, 401, 403, 405, 407, 409, 412, 414, 416, 418, 420, 422, 425, 429, 431, 434 Chassis Fan Health Summary 68 Chassis Fan Module Configuration 70 Chassis Fan Module Health 72 Chassis Fan Module Temperature 74 Chassis Fan Statistics 75 Chassis Hardware Firmware 77 Chassis Health Summary 79 Chassis ID 56, 59, 62, 64, 67, 68, 70, 72, 74, 75, 77, 79, 82, 83, 85, 87, 89, 90, 91, 94, 96, 97, 153, 183, 248, 355, 357, 358, 360, 363, 365, 367, 369, 372, 375, 377, 379, 383, 385, 388, 391, 393, 395, 398, 401, 403, 405, 407, 410, 412, 414, 416, 418, 420, 422, 425, 429, 431, 435 Chassis IO Backplane Port Health 82 Chassis IO Module Configuration 83 Chassis IO Module Health Summary 85 Chassis IO Module Temperature 87 Chassis Power Statistics 88 Chassis PSU Configuration 90 Chassis PSU Health Summary 91 Chassis PSU Statistics 93 Chassis Slot Details 95 Chassis Slot Utilization Summary 97 ChassisAndFabricExtender Health Summary 98 Check Point 308, 401, 478 Cisco UCS Topology 102 Clear Action 447 Clear Interval 447 Clock (MHz) 315, 410 Coherency Support 214 Component 224 Component DN 99, 102, 224 Component ID 99, 102 Component Status 102 Component Type 102 Config State 444, 449, 454 Configuration State 79, 99, 130, 439, 441 Connect To Node 103 Connection Protocol 268, 369 Connection Type 103 Console Redirection 221 Consumed Power (W) 325, 418 Core File Exporter DN 446 Core Multi Processing 214 CPU DN 259, 262, 264, 360, 363, 366 CPU Environment Stats DN 264, 366 CPU ID 259, 262, 264, 313, 360, 363, 366, 405 CPU Performance 215 CPU Stepping 260, 361 CPU Temperature (C) 264, 366

attributes (continued) CRC Rx (errors) 189 Created Time 104 Current 188 Current (A) 143 Current Capacity 313, 405 Datacenter DN 482, 483, 487 Datacenter Name 490 DCE Interface DN 266, 368 DCE Interface ID 266, 368 DDR3 Array Temperature (C) 320, 412 Default Gateway 231 Deffered Tx (errors) 56, 108, 160 Delta Average Packets Rx 194, 200 Delta Average Packets Tx 194, 200 Delta Maximum Packets Rx 194, 201 Delta Maximum Packets Tx 194, 201 Delta Minimum Packets Rx 195, 201 Delta Minimum Packets Tx 195, 201 Delta Packets Rx 195, 201 Delta Packets Tx 195, 201 Deployment 77, 128, 300, 351, 393 Deployment (Boot-loader) 156 Deployment (Kernel) 156 Deployment (System) 156 Description 104, 151, 215, 219, 221, 223, 226, 227, 236, 237, 242, 446, 460, 482, 483, 485, 487, 489, 491, 492, 493, 497 Destination DN 463, 465 Destination Type 456 DHCP Vendor Id 231 die1 119 Direct Cache Access 215 Direction 443, 445, 449, 450, 451, 453, 454, 466, 468, 469, 471, 472, 473 Discard Rx (errors) 189 Discard Tx (errors) 190 Discovery 134 Discovery State 308, 402, 478 Disk Dn 271 Disk DN 268, 341, 344, 369, 372 Disk Id 271 Disk ID 268, 342, 344, 370, 372 Disk Scrub 236 Down 443 Dropped Rx 349, 435 Dropped Tx 349, 435 DVS DN 483, 485, 497 DVS Name 491 Enforce vNIC/vHBA Name 223 Enhanced Intel Speedstep 215 Environment Stats DN 119 Equal to 64 (packets) 285, 388 Equipment 439, 441 Error Code 211 Errors Rx 349, 435 Errors Tx 349, 435 ESX Host DN 485 ESX Host Server DN 497 Ether Port Error Stats DN 275, 378 Ether Port Large Stats DN 277, 380 Ether Port Mcast Stats DN 273, 375 Ether Port Outsized Stats DN 280, 383 Ether Port Packets Stats DN 283, 385 Ether Port Small Stats DN 285, 389 Ether Received Stats DN 163, 173, 178 Ether Transmitted Stats DN 163, 173, 178 Events 457

attributes (continued) Excess Collision (errors) 59, 111, 167 Execute Disabled Bit 215 Exhaust Temperature (C) 74, 295 Explanation 104 Extension Key 483 ExtVMMDN 482, 484, 487, 492, 494 Fabric DN 445, 449, 450, 452, 453, 454, 463, 465, 466, 468, 471, 473, 489, 491, 502 Fabric Extender DN 106, 108, 111, 114, 116, 119, 121, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 141, 143, 144 Fabric Extender ID 106, 109, 112, 114, 116, 119, 121, 123, 124, 127, 128, 130, 132, 134, 136, 138, 140, 141, 143, 144 Fabric ID 84, 106, 121, 136, 445, 449, 450, 452, 453, 455, 463, 465, 467, 468, 469, 471, 472, 474, 495 Fabric Interconnect DN 146, 148, 150, 152, 154, 156, 158, 160, 167, 169, 179, 181, 183, 184, 186, 188, 190, 204, 206, 207 Fabric Interconnect ID 147, 148, 150, 152, 154, 156, 158, 160, 167, 169, 174, 179, 181, 183, 184, 186, 188, 190, 202, 204, 206, 207, 266, 302, 329, 368, 395, 422 Facility 459 Fan Controller Inlet1 207 Fan Controller Inlet2 207 Fan Controller Inlet3 207 Fan Controller Inlet4 208 Fan DN 76, 127, 148, 150, 287, 289, 296 FAN DN 68, 123, 125 Fan ID 76, 127, 148, 150, 287, 289, 297 FAN ID 68, 123, 125 Fan Module DN 70, 72, 75, 76, 287, 289, 292, 293, 295, 297 FAN Module DN 68 Fan Module ID 71, 72, 75, 76, 288, 290, 292, 293, 296, 297 FAN Module ID 68 Fan Speed 76, 127, 297 Fan Stats DN 76, 127, 297 Fault Code 104 Fault Collection Policy DN 448 Fault DN 104, 448 Fault ID 104 Faults 103, 458 Faulty Fans 79, 99, 130 FC Stats DN 195, 202 FCoE Storage Port DN 449 FCoE Storage Ports 181 FCPORT Stats DN 298, 391 FCS (errors) 56, 109, 160 FEX Backplane Port Config 106 FEX Backplane Port Error 108 FEX Backplane Port Loss 111 FEX Backplane Port Pause 113 FEX Backplane Statistics 115 FEX Environment Statistics 119 FEX Fabric Port Config 120 FEX Fan Configuration Details 122 FEX Fan Health Summary 124 FEX Fan Speed Statistics 126 FEX Firmware 128 FEX Health Summary 129 FEX IO Backplane Port Health 132 FEX IO Fabric Port Health 134 FEX IO Module Configuration 136 FEX IO Module Health Summary 138 FEX IO Module Temperature 140 FEX PSU Configuration Details 141 FEX PSU Environment Statistics 143 FEX PSU Health Summary 144

attributes (continued) FI Configuration Details 146 FI Fan Configuration Details 148 FI Fan Health Summary 149 FI Fixed Expansion Configuration 151 FI Fixed Expansion Port Health 153 FI Hardware Firmware 155 FI Health Summary 158 FI LAN Error Statistics 159 FI LAN Hist Statistics 162 FI LAN Loss Statistics 167 FI LAN Pause Statistics 169 FI LAN Port Channel Aggregate Statistics 171 FI LAN Port Channel Statistics 173 FI LAN Statistics 178 FI Port Summary 181 FI Port Usage 183 FI PSU Configuration Details 184 FI PSU Health Summary 185 FI PSU Statistics 188 FI SAN Error Statistics 189 FI SAN Hist Statistics 192 FI SAN Port Channel Aggregate Statistics 196 FI SAN Port Channel Statistics 198 FI SAN Statistics 204 FI System Statistics 205 FI Temperature Statistics 207 Fiber Channel Error Stats DN 190 Fiber Channel Stats DN 204 Flap Interval 448 Flow Control 221 Folder 491 Folder DN 484, 487 From 245, 249, 252 Front Panel Lockout 219 Front Temperature (C) 327, 420 FSM Stage Description 478 Giants (errors) 59, 112, 167 Good (packets) 283, 386 Greater than or equal to 9216 (packets) 277, 380 HBA DN 299, 302, 305, 391, 395, 399 HBA ID 299, 302, 305, 391, 396, 399 Health 69, 72, 80, 82, 85, 91, 99, 125, 130, 133, 134, 138, 144, 150, 154, 158, 186, 209, 255, 262, 266, 271, 290, 294, 306, 308, 310, 318, 323, 332, 335, 344, 346, 353, 357, 364, 372, 399, 402, 407, 416, 425, 427, 431, 437, 439, 441, 463, 465, 478, 480, 485, 494, 497, 500 Highest Severity 104 Host Control 235 Host Network IO Performance 489 Hostname (or IP Address) 446, 459, 494 Hyper Threading 215 ID 244, 246 Initiator DN 244 Initiator Name 231 inlet 119 inlet1 120 Input Current (A) 265, 311, 325, 366, 403, 418 Input Power (W) 89 Input Power(W) 337 Input Voltage (V) 326, 338, 418 Input Voltage 210V 94 Int Mac Rx (errors) 57, 109, 160 Int Mac Tx (errors) 57, 109, 161 Intel Entry SAS RAID 222 Intel Entry SAS RAID Module 222 Internal Temperature (C) 94

attributes (continued) Interrupt Remap 215 Intervals Skipped 212 IO Hub 1 Temperature (C) 327 IO Hub 2 Temperature (C) 327 IO Module DN 57, 59, 62, 64, 82, 84, 85, 88, 106, 109, 112, 114, 116, 121, 133, 135, 136, 138, 140 IO Module ID 57, 60, 62, 64, 106, 109, 112, 114, 116, 121, 135 IO Module Port 266 IO Module Stats DN 88, 140 IPMI Policy DN 226, 227, 437 IPMI User DN 227 IPv4 Address 232 iSCSI Adapter Policy 232 iSCSI Boot DN 228 iSCSI Boot Static Target DN 230 iSCSI IPV4 Address 230 iSCSI vNIC DN 232 Jumbo Packets Rx 64, 116, 163, 174, 179 Jumbo Packets Tx 64, 116, 163, 174, 179 Kernel Version 157 Kev 494 LAN Boot DN 234 Last Collection Duration 212 Last Collection Finished 212 Last Collection Start 212 Last Transaction Time 104 Late Collision (errors) 60, 112, 167 Leadership 159 Legacy OS Redirect 222 Less than 1024 (packets) 286, 389 Less than 128 (packets) 286, 389 Less than 1518 (packets) 380 Less than 2048 (packets) 278, 380 Less than 256 (packets) 286, 389 Less than 4096 (packets) 278, 380 Less than 512 (packets) 286, 389 Less than 64 (packets) 286, 389 Less than 8192 (packets) 278, 380 Less than 9216 (packets) 278, 381 Less Than or Equal To 1518 (packets) 278 Level 456, 459 Link Failures (errors) 190 Load 206 Local Disk Configuration Policy DN 437 Locale 171, 174, 196, 202 Location 315, 410 LUN ID 230 LV DDR Mode 216 MAC 267, 329, 422, 500 MAC Address 232, 332, 425 MAC Address DN 245 MAC Discarded (packets) 276, 378 MAC DN 247 MAC Pool Details 209 MAC Pool DN 209, 245, 247 Main Board Outlet1 208 Main Board Outlet2 208 Make Device Non Bootable 216 Management Controller DN 77, 128, 157, 301, 393 Max Capacity 313, 405 Max Devices 313, 405 Max Memory Below 4G 216 Max Ports 489 Memory Array DN 318 Memory Array ID 318

attributes (continued) Memory Array Unit DN 310, 311, 313, 315, 320, 404, 406, 408, 410, 413 Memory Array Unit ID 310, 312, 313, 316, 320, 404, 406, 408, 410, 413 Memory Array Unit Stats DN 312, 404 Memory Mapped IO Above 4Gb Config 216 Memory RAS Config 216 Memory Unit DN 316, 318, 321, 410, 413 Memory Unit ID 316, 318, 321, 410, 413 Memory Unit Temperature Stats DN 321, 413 Mirroring Mode 216 Module 123, 148, 288 Motherboard DN 260, 262, 265, 269, 271, 310, 312, 314, 316, 318, 321, 322, 323, 326, 327, 339, 342, 344, 346, 361, 364, 366, 370, 372, 404, 406, 408, 411, 413, 414, 416, 419, 420, 429, 431 Motherboard ID 322, 324, 414, 416 Motherboard Power Stats DN 326, 419 Motherboard Temp Stats DN 328 Motherboard Temperature Stats DN 420 Multi Collision (errors) 60, 112, 168 Multicast (packets) 273, 375 Multicast Packets Rx 65, 117, 163, 174, 179 Multicast Packets Tx 65, 117, 163, 174, 179 Name 209, 216, 219, 222, 226, 227, 230, 232, 235, 236, 237, 242, 244, 245, 248, 249, 252, 267, 303, 329, 353, 396, 422, 427, 437, 456, 459, 460, 463, 465, 470, 471, 472, 474, 482, 484, 485, 487, 489, 491, 492, 494, 496, 497, 499, 500, 503 Native VLAN 503 Network Control Policy 489 Network Control Policy DN 489 Network type 107, 121 Network Type 154 NIC DN 329, 332, 422, 425 NIC ID 329, 332, 423, 425 No breakdown greater than 1518 (packets) 278, 381 No of Enabled Cores 260, 361 Node 57, 60, 62, 65, 67, 69, 71, 73, 75, 76, 78, 80, 82, 84, 86, 88, 89, 90, 92, 94, 96, 98, 100, 103, 105, 107, 109, 112, 114, 117, 120, 121, 123, 125, 127, 128, 130, 133, 135, 136, 138, 140, 141, 143, 145, 147, 148, 150, 152, 154, 157, 159, 161, 164, 168, 169, 171, 174, 179, 182, 183, 184, 186, 188, 190, 195, 197, 202, 204, 206, 208, 210, 213, 217, 219, 222, 223, 224, 226, 227, 229, 230, 232, 234, 235, 237, 238, 239, 240, 241, 243, 244, 245, 247, 248, 249, 251, 252, 253, 255, 257, 258, 260, 263, 265, 267, 269, 271, 273, 276, 279, 280, 283, 286, 288, 290, 292, 294, 296, 297, 299, 301, 303, 306, 308, 310, 312, 314, 316, 318, 321, 322, 324, 326, 328, 329, 332, 334, 335, 338, 340, 342, 344, 346, 349, 351, 353, 355, 357, 358, 361, 364, 366, 368, 370, 373, 375, 378, 381, 383, 386, 390, 391, 394, 396, 399, 402, 404, 406, 408, 411, 413, 415, 416, 419, 420, 423, 425, 427, 429, 432, 435, 437, 440, 441, 443, 445, 446, 448, 449, 451, 452, 453, 455, 456, 458, 459, 461, 463, 465, 467, 468, 470, 471, 472, 474, 475, 478, 480, 482, 484, 486, 487, 489, 491, 492, 494, 496, 498, 499, 500, 503 Normal Value 462 NUMA 217 Number of Blocks 269, 370 Number of Collections 213 Number of Cores 260, 361 Number of Ports 152 Object Name 213 Object Status 213 Object Type 213 Occurrences 105

attributes (continued) Oper Power 324, 417 Oper State 175, 202, 346, 432, 438 Operability 69, 73, 86, 92, 100, 125, 131, 138, 145, 150, 186, 255, 263, 271, 290, 294, 318, 335, 344, 346, 357, 364, 373, 432 Operabiltiy 80 Operational Speed 440, 441 Operational State 464, 465 Operational State Reason 464, 466 OperState 69, 73, 80, 82, 86, 92, 100, 125, 131, 133, 135, 138, 145, 154, 351 Order 229, 234, 239, 241 ORG Root DN 210, 217, 219, 222, 224, 225, 226, 228, 229, 230, 232, 234, 235, 237, 238, 239, 240, 242, 243, 244, 246, 247, 248, 250, 251, 252, 353, 428, 438, 440, 442, 470, 472, 480 Original MAC 330, 423 Original Severity 105 Original WWNN 303, 396 Original WWPN 303, 396 OS Boot Watchdog Timer 222 Out Discard (errors) 57, 110, 161 outlet1 120 outlet2 120 Output Current 94 Output Current (A) 338 Output Power 94 Output Power (W) 89 Output Power(W) 338 Output Voltage 12V 94 Output Voltage 3V3 95 Output Voltage(V) 338 Overall Status 290, 294, 319, 336, 478 Overlay vNIC 232 Oversized (packets) 280, 383 Oversized bad CRC (packets) 281, 383 Oversized good CRC (packets) 281, 383 overview 39 Owner 488, 493 Package Version 257, 351 Package Version (System) 157 Packets Rx 195, 202, 204, 350, 435 Packets Tx 196, 202, 205, 350, 436 Parent DN 225, 230, 456, 478, 496, 499, 501 Pass Through DMA Support 217 Password 228 Path 446 Pause (packets) 283, 386 PCI Address 303, 396 PCI Slot 254, 355 PCIe Address 340, 429 Peer 107, 121 Per priority (packets) 283, 386 Performance 69, 73, 92, 125, 145, 150, 186, 290, 294, 306, 310, 319, 324, 332, 336, 346, 399, 408, 417, 426, 432 Performance Object Status 211 PID 67, 71, 84, 90, 100, 123, 131, 137, 141, 147, 149, 152, 184, 254, 258, 260, 269, 288, 292, 303, 314, 316, 322, 330, 334, 340, 342, 355, 359, 361, 370, 396, 406, 411, 415, 423, 429 Pin Group 490 Policy BIOS Advanced Configurations 214 Policy BIOS Configuration Summary 218 Policy BIOS Configurations 220 Policy Boot Configuration Summary 223 Policy Boot Order Configuration Details 224

attributes (continued) Policy IPMI Access Profile Configuration Summary 226 Policy IPMI User Configuration Details 227 Policy iSCSI Boot Order Configuration Summary 228 Policy iSCSI Static Target Interface Configuration Details 229 Policy iSCSI vNIC Configuration Summary 231 Policy LAN Boot Order Configuration Summary 233 Policy QoS Configuration Details 235 Policy Scrub Configuration Details 236 Policy Serial Over LAN Configuration Details 237 Policy Storage Boot Order Configuration Summary 239 Policy Virtual Host Interface Configuration Details 240 Policy Virtual Media Boot Order Configuration Details 241 Policy vNICvHBA Placement Configuration Summary 242 Pool Initiator Configuration Details 243 Pool MAC Address Configuration Details 245 Pool MAC Configuration Details 246 Pool Name 481 Pool Server Configuration Details 248 Pool UUID Block Configuration Details 249 Pool UUID Suffix Configuration Details 250 Pool WWN Initiator Block Configuration Details 252 Poolable 247 Populate Devices 314, 406 Port 230, 445, 447, 449, 451, 452, 453, 455, 467, 468 Port Channel DN 171, 175, 197, 203, 451, 452 Port Channel EPDN 175, 203 Port Channel Peer DN 175, 203 Port DN 107, 117, 122, 135, 154, 161, 164, 168, 169, 175, 180, 191, 196, 203, 205 Port Error Stats DN 161 Port ID 58, 60, 62, 65, 83, 107, 110, 113, 114, 117, 122, 133, 135, 155, 161, 164, 168, 170, 175, 180, 191, 196, 203, 205 Port Loss Stats DN 168 Port Pause Stats DN 170 Port Profile DN 490, 491, 503 Port Role 155 Port Type 107, 122 Ports Used 183 Post Error Pause 220 Power 69, 73, 80, 92, 100, 125, 131, 145, 151, 186, 188, 263, 290, 294, 306, 319, 332, 336, 346, 364, 399, 426, 432 Power State 308, 402, 478 Power(W) 143 PPP (packets) 283, 386 Presence 69, 73, 80, 86, 92, 100, 126, 131, 139, 145, 151, 186, 263, 271, 290, 294, 310, 319, 336, 342, 344, 346, 364, 373, 408, 432 Prev Assigned To 251 Previous Severity 105 Primary DNS 233 Priority 231, 235 Processor Architecture 261, 361 Processor C3 Report 217 Processor C6 Report 217 Profile Client DN 492 Profile Name 501 Property 462 PSU Controller Inlet1 208 PSU Controller Inlet2 208 PSU DN 90, 92, 95, 142, 143, 145, 185, 187, 188, 334, 336, 338 PSU ID 90, 93, 95, 142, 143, 146, 185, 187, 189, 334, 336, 339 PSU Input Stats DN 189

attributes (continued) PSU Stats DN 95, 144, 339 Purpose 267, 303, 330, 353, 396, 423 OOS Policy 490 QoS Policy DN 235, 306, 332, 399, 426, 440, 442, 490 Ouerv Name 213 Quiet Boot 220 Rack ID 248 Rack Mount Server DN 254, 256, 257, 258, 261, 263, 265, 267, 269, 272, 274, 276, 279, 281, 284, 287, 288, 291, 292, 294, 296, 297, 299, 301, 304, 306, 309, 310, 312, 314, 316, 319, 321, 322, 324, 326, 328, 330, 333, 334, 336, 339, 340, 342, 344, 347, 350, 351 Rack Mount Server ID 254, 256, 257, 258, 261, 263, 265, 267, 269, 272, 274, 276, 279, 281, 284, 287, 288, 291, 292, 295, 296, 298, 299, 301, 304, 306, 309, 311, 312, 314, 317, 319, 321, 322, 324, 326, 328, 330, 333, 334, 336, 339, 340, 342, 345, 347, 350, 351 RAID Support 340, 429 Rate(Kbps) 236 Rcv (errors) 58, 110, 161 Rear Temperature (C) 328, 420 Rear Temperature Left(C) 421 Rear Temperature Right(C) 421 Reboot on BIOS Settings Change 220 Reboot on Boot Order Change 224 Recommended Action 105 Recv Pause 62, 115, 170 Refresh Interval 214 Resets 62, 115, 170 Resume Ac On Power Loss 220 Retention Interval 448 Revision 67, 71, 84, 90, 100, 123, 137, 142, 147, 149, 152, 185, 254, 258, 261, 269, 288, 292, 304, 317, 323, 330, 334, 340, 343, 355, 359, 362, 370, 397, 411, 415, 423, 430 RM Server Adapter Configuration 253 RM Server Adapter Health Summary 255 RM Server BIOS Firmware 256 RM Server Configuration Details 258 RM Server CPU Configuration 259 RM Server CPU Health Summary 262 RM Server CPU Statistics 264 RM Server DCE Interface Health 266 RM Server Disk Configuration 268 RM Server Disk Health Summary 271 RM Server Ether Port Comm 272 RM Server Ether Port Error 274 RM Server Ether Port Large 277 RM Server Ether Port Outsized 279 RM Server Ether Port Packets 282 RM Server Ether Port Small 285 RM Server Fan Configuration 287 RM Server Fan Health Summary 289 RM Server Fan Module Details 292 RM Server Fan Module Health 293 RM Server Fan Module Temperature 295 RM Server Fan Statistics 296 RM Server FC Port Statistics 298 RM Server Firmware 300 RM Server HBA Configuration 302 RM Server HBA Health Summary 305 RM Server Health Summary 307 RM Server Memory Array Health 309 RM Server Memory Array Statistics 311 RM Server Memory Array Unit 313 RM Server Memory Unit Details 315 RM Server Memory Unit Health 317

attributes (continued) RM Server Memory Unit Temp 320 RM Server Motherboard Details 322 RM Server Motherboard Health 323 RM Server Motherboard Power 325 RM Server Motherboard Temp 327 RM Server NIC Configuration 329 RM Server NIC Health Summary 331 RM Server PSU Configuration 334 RM Server PSU Health Summary 335 RM Server PSU Statistics 337 RM Server Storage Controller 339 RM Server Storage Disk 341 RM Server Storage Disk Health 343 RM Server Storage Health Summary 345 RM Server vNIC Statistics 348 RM Storage Firmware 350 Role 228 Root Level DN 443, 461, 462 Running Version 78, 129, 301, 394 Rx (errors) 191 Rx Bad frames (packets) 299, 392 Rx Frames (packets) 299, 392 Rx Stats DN 117 SAN Pool Details 352 SAN Pool DN 353 Scrub Policy DN 237, 438 Secondary DNS 233 Selection Preferences 240 Serial Number 258, 323, 359, 415 Serial Number (SN) 67, 84, 86, 100, 124, 137, 139, 142, 147, 149, 152, 185, 254, 261, 270, 304, 317, 330, 341, 343, 356, 362, 370, 397, 411, 423, 430 Serial Number(SN) 71, 91, 289, 293, 335 Serial Over LAN Policy DN 238, 438 Serial over LAN State 238 Serial Port A 217 Server Adapter Configuration 354 Server Adapter Health Summary 356 Server Configuration Details 358 Server CPU Configuration Details 360 Server CPU Health Summary 363 Server CPU Statistics 365 Server DCE Interface Summary 367 Server Disk Configuration 369 Server Disk Health Summary 371 Server DN 249, 479, 486, 498 Server Ether Port Communication 374 Server Ether Port Error 376 Server Ether Port Large 378 Server Ether Port Outsized 382 Server Ether Port Packets 384 Server Ether Port Small 387 Server FC Port Statistics 390 Server Hardware Firmware 392 Server HBA Configuration Details 394 Server HBA Health Summary 398 Server Health Summary 400 Server ID 479 Server Memory Array Statistics 403 Server Memory Array Unit Details 404 Server Memory Array Unit Health 407 Server Memory Unit Configuration 409 Server Memory Unit Temperature 412 Server Motherboard Configuration 414 Server Motherboard Health 415 Server Motherboard Power 418

attributes (continued) Server Motherboard Temperature 419 Server NIC Configuration Details 421 Server NIC Health Summary 424 Server Pool Details 427 Server Pool DN 249, 428 Server Port DN 453 Server Port Source DN 453 Server Ports 182 Server Storage Controller 428 Server Storage Controller Health 431 Server vNIC Statistics 433 Service Profile 259, 359 Service Profile DN 233, 238, 309, 402, 438, 440, 442, 470, 473, 479, 486, 498, 501 Service Profile Health 436 Service Profile vNIC DN 501 Service Profiles vHBA Health Summary 439 Service Profiles vNIC Health Summary 441 Session Name 445, 450, 451, 452, 454, 455, 467, 468, 470, 471, 473, 474 Severity 105, 443 Side 84, 137, 267, 368 Signal Losses (errors) 191 Single Collision (errors) 60, 113, 168 Size 210, 353, 428, 481 Size (KB) 457 Size (MB) 270, 371 Size Limit 448 Slot 445, 450, 454, 455, 467, 469 Slot DN 153 Slot ID 83, 84, 86, 88, 96, 98, 133, 137, 139, 141, 153, 155, 249, 259, 359 Slot Status 98, 309, 402, 479 Slot Type 153 Socket Name 261, 362 Sparing Mode 218 Speed 238 Speed (GHz) 261, 362 SQE Test (errors) 61, 113, 168 Startup Kernel Type 157 Startup Kernel Version 157 Startup System Type 157 Startup System Version 157 Startup Version 78, 129, 301, 394 State 159 Status 486, 496, 498, 501 Storage Boot DN 239 Storage Controller DN 270, 341, 343, 345, 347, 352, 371, 373, 430, 432 Storage Controller ID 270, 341, 343, 345, 347, 352, 371, 373, 430, 432 Storage Port DN 455 Storage Port Source DN 455 Subject 78, 129, 301, 394 Subnet Mask 233 SVC DN 458, 460 Symbol (errors) 61, 113, 169 Sync Losses (errors) 191 Sys Mon Alarm Trigger Configuration Details 443 Sys Mon Appliance Port Configuration Details 444 Sys Mon Core File Exporter Configuration Details 446 Sys Mon Fault Collection Policy Configuration Details 447 Sys Mon FCoE Storage Port Configuration Details 449 Sys Mon Port Channel Configuration Details LAN 450 Sys Mon Port Channel Configuration Details SAN 451 Sys Mon Server Port Configuration Details 453

attributes (continued) Sys Mon Storage Port Configuration Details 454 Sys Mon Syslog Local Destination Configuration Details 456 Sys Mon Syslog Local Sources Configuration Details 457 Sys Mon Syslog Remote Destination Configuration Details 459 Sys Mon Threshold Policy Configuration Summary 460 Sys Mon Threshold Policy Definition Configuration Summary 461 Sys Mon Traffic Monitoring Session Health Summary LAN 463 Sys Mon Traffic Monitoring Session Health Summary SAN 464 Sys Mon Uplink Ethernet Port Configuration Details 466 Sys Mon Uplink FC Port Configuration Details 468 Sys Mon vHBA Configuration Details 469 Sys Mon VLAN Configuration Details 471 Sys Mon vNIC Configuration Details 472 Sys Mon VSAN Configuration Details 473 Syslog DN 458, 460 Syslog Local DN 457 Syslog Local Source DN 458 Syslog Remote DN 460 System debug DN 447 System DN 447, 457, 458, 460 System Version 158, 352 Target Lun ID 225 Target Type 225 Target WWN 225 Terminal Type 222 The distinguished name of the vNIC/vHBA placement policy. 240 Thermal 69, 73, 80, 86, 93, 101, 126, 131, 139, 146, 151, 187, 256, 263, 291, 295, 306, 319, 324, 333, 337, 357, 364, 400, 417, 426 Thread Pool Active Threads 475 Thread Pool Avg Active Threads 475 Thread Pool Avg Job Wait 475 Thread Pool Avg Queue Length 475 Thread Pool Max Active Threads 475 Thread Pool Max Queue Length 476 Thread Pool Max Size 476 Thread Pool Min Active Threads 476 Thread Pool Min Queue Length 476 Thread Pool Queue Length 476 Thread Pool Size 476 Thread Pool Status 475 Thread Pool Total Jobs 477 Threads 261, 362 Threshold Policy Class DN 443, 462 Threshold Policy Definition DN 444, 462 Threshold Policy DN 438, 444, 461, 462

attributes (continued) Timestamp 58, 61, 63, 65, 67, 70, 71, 73, 75, 76, 78, 81, 83, 85, 87, 88, 89, 91, 93, 95, 97, 98, 101, 103, 105, 107, 110, 113, 115, 117, 120, 122, 124, 126, 127, 129, 131, 133, 135, 137, 139, 141, 142, 144, 146, 147, 149, 151, 153, 155, 158, 159, 162, 164, 169, 170, 171, 175, 180, 182, 184, 185, 187, 189, 191, 196, 197, 203, 205, 206, 209, 210, 214, 218, 220, 223, 224, 225, 227, 228, 229, 231, 233, 234, 236, 237, 238, 239, 240, 242, 243, 245, 246, 247, 249, 250, 251, 252, 254, 256, 257, 259, 262, 264, 265, 267, 270, 272, 274, 276, 279, 281, 284, 287, 289, 291, 293, 295, 296, 298, 300, 302, 304, 307, 309, 311, 312, 314, 317, 319, 321, 323, 325, 326, 328, 331, 333, 335, 337, 339, 341, 343, 345, 347, 350, 352, 354, 356, 357, 359, 362, 365, 367, 368, 371, 373, 375, 378, 381, 384, 386, 390, 392, 394, 397, 400, 402, 404, 406, 408, 411, 413, 415, 417, 419, 421, 423, 426, 428, 430, 433, 436, 438, 440, 442, 444, 445, 447, 448, 450, 451, 452, 454, 455, 457, 458, 460, 461, 462, 464, 466, 467, 469, 470, 471, 473, 474, 477, 479, 481, 482, 484, 486, 488, 490, 492, 493, 494, 496, 498, 499, 501, 503 To 246, 250, 253 Too Long Rx (errors) 191 Too Short Rx (errors) 192 Top System 101, 479 Total (packets) 284, 387 Total Bytes Delta Avg Rx 164, 171, 175, 197 Total Bytes Delta Avg Tx 164, 171, 176, 197 Total Bytes Delta Max Rx 164, 176 Total Bytes Delta Max Tx 165, 176 Total Bytes Delta Min Rx 165, 176 Total Bytes Delta Min Tx 165, 176 Total Bytes Delta Rx 165, 172, 176, 197 Total Bytes Delta Tx 165, 172, 177, 197 Total Bytes Rx 65, 118, 165, 177, 180 Total Bytes Tx 66, 118, 166, 177, 180 Total Consumed Power (W) 89 Total Fans 81, 101, 132 Total Faults 70, 74, 81, 83, 87, 93, 101, 126, 132, 134, 136, 139, 146, 151, 155, 159, 187, 210, 256, 264, 268, 272, 291, 295, 307, 309, 311, 320, 325, 333, 337, 345, 347, 354, 358, 365, 373, 400, 403, 409, 417, 426, 428, 433, 439, 440, 442, 464, 466, 479, 481, 486, 495, 498, 501 Total Free Slots 81, 101 Total Memory 207 Total Memory (MB) 147 Total Occupied Slots 81, 102 Total Packets Delta Avg Rx 172, 198 Total Packets Delta Avg Tx 172, 198 Total Packets Delta Rx 172, 198 Total Packets Delta Tx 172, 198 Total Packets Rx 66, 118, 166, 177, 180 Total Packets Tx 66, 118, 166, 177, 181 Traffic Direction 274, 276, 279, 281, 284, 287, 376, 378, 381, 384, 387, 390 Traffic Monitoring Session DN 464, 466 Transport 241 Transport Type 107, 122, 155 Tray 71, 124, 293 Turbo Boost 218 Tx (errors) 192 Tx Bad frames (packets) 300, 392 Tx Frames (packets) 300, 392 Tx Stats DN 118 Type 106, 225, 229, 234, 240, 242, 268, 304, 331, 341, 368, 397, 424, 430, 439, 482, 484, 488, 502, 503 UCS Servers Health Summary 477 Unconfigured Ethernet Ports 182

attributes (continued) Under Size (errors) 58, 110, 162 Undersized bad CRC (packets) 281, 384 Undersized good CRC (packets) 282, 384 Unicast (packets) 274, 376 Unicast Packets Rx 66, 118, 166, 177, 181 Unicast Packets Tx 66, 118, 166, 178, 181 Up 444 Update Status 78, 129, 302, 394 Uplink Ethernet Port DN 467 Uplink Ethernet Ports 182 Uplink Ethernet Source DN 468 Uplink FC Port DN 469 Uplink FC Port Source DN 469 Uplink FC Ports 182 UUID 259, 359, 482, 484, 486, 488, 493, 498 UUID Block DN 250 UUID Pool DN 481 UUID Prefix 481 UUID Suffix 251 UUID Suffix DN 251 UUID Suffix Pool Details 480 UUID Suffix Pool DN 250, 252 vCenter DN 495 VCenter DN 483, 484, 488, 493 vCenter Folder DN 493 VCenter Folder DN 483, 485, 488 Vendor 67, 72, 85, 91, 102, 124, 132, 137, 142, 148, 149, 153, 185, 255, 257, 259, 262, 270, 289, 293, 304, 315, 317, 323, 331, 335, 341, 343, 356, 360, 363, 371, 397, 407, 411, 415, 424, 430 Version 257 vHBA 397 vHBA DN 307, 400, 441, 470 VIF DN 496 Virtual Host Interface DN 241 Virtual Interface DN 502 Virtual Machine DN 499 Virtual Media Boot DN 242 Virtual Slot 241 Virtualization Technology (VT) 218 VLAN 233 VLAN (packets) 284, 387 VLAN DN 472, 500 VMM DN 487, 496, 499, 500, 502 VMware Datacenter Configuration Details 481 VMware DVS Configuration Details 483 VMware ESX Host Server Health Summary 485 VMware Folder Configuration Details 487 VMware Port Profile Configuration Summary 489 VMware Profile Client Configuration Details 490 VMware vCenter Folder Configuration Summary 492 VMware vCenter Health Summary 493 VMware VIF Configuration Details 495 VMware Virtual Machine Health Summary 497 VMware vLAN Configuration Details 499 VMware vNIC Health Summary 500 VMware vNIC Interface Configuration Details 502 vNIC 304, 331, 424 vNIC DN 333, 426, 442, 473, 500, 502 VNIC DN 497 vNIC Interface DN 503 vNIC Stats DN 350, 436 vNIC/vHBA Placement Policy DN 243, 439 vNIC/vHBA/iSCSI vNIC 226 Voltage 70, 74, 93, 102, 126, 146, 187, 189, 291, 320, 325, 337, 347, 417, 433

attributes (continued) Voltage(V) 144 VSAN DN 474 VT For Directed IO 218 Width 317, 412 WWN Initiator Block Pool DN 253 WWN Pool DN 245, 253 WWNN 305, 307, 397, 400 WWPN 305, 307, 398, 400 Xmit (errors) 58, 110, 162 Xmit Pause 63, 115, 170 Audits attribute 457 Authentication Profile attribute 229, 231 Availability State attribute 308, 401, 477 Available Memory attribute 205 Average Collection Duration attribute 211

В

Backplane Ether Rx Stats DN attribute 63 Backplane Ether Tx Stats DN attribute 63 Backplane Port DN attribute 56, 58, 61, 63, 82, 108, 111, 113, 132 Backplane Port Error Stats DN attribute 56, 108 Backplane Port Loss Stats DN attribute 59, 111 Backplane Port Pause Stats DN attribute 61, 114 Backup Version attribute 77, 128, 300, 393 Bad CRC (packets) attribute 275, 376 Bad Length (packets) attribute 275, 377 Bank attribute 315, 409 BAUD Rate attribute 221 BIOS Dn attribute 256 BIOS Policy Advanced Configurations workspace 33 BIOS Policy Configurations workspace 33 BIOS Policy DN attribute 214, 219, 221, 437 BIOS Settings Scrub attribute 236 Blade Server Adapter Health workspace 18 Blade Server Configurations workspace 18 Blade Server CPU Details workspace 19 Blade Server DCE Interface Details workspace 19 Blade Server DN attribute 95, 97, 354, 356, 358, 360, 363, 365, 367, 369, 371, 374, 377, 379, 382, 385, 388, 391, 393, 395, 398, 401, 403, 405, 407, 409, 412, 414, 416, 418, 419, 422, 424, 428, 431, 434 Blade Server HBA Details workspace 19 Blade Server Health workspace 19 Blade Server ID attribute 96, 97, 355, 356, 358, 360, 363, 365, 367, 369, 372, 374, 377, 379, 382, 385, 388, 391, 393, 395, 398, 401, 403, 405, 407, 409, 412, 414, 416, 418, 419, 422, 425, 429, 431, 434 Blade Server Memory Array Unit Details workspace 20 Blade Server Model attribute 96, 97 Blade Server Motherboard Details workspace 20 Blade Server NIC Details workspace 20 Blade Server Type attribute 96, 97 Blade Servers situations 517 workspaces descriptions 18 Blade Servers workspace 20 Block Size (Bytes) attribute 268, 369 Boot Loader Version attribute 351 Boot Option Retry attribute 221 Boot Policy DN attribute 223, 224, 228, 234, 239, 241, 437 Boot Policy Order Configurations workspace 33 Boot Policy Order workspace 33 Boot Target LUN attribute 244

Boot Target WWPN attribute 244 Boot Unit Version attribute 351 Boot-loader Version attribute 156 Border Card Id attribute 495 Border Port Id attribute 495 Broadcast (packets) attribute 273, 374 Broadcast Packets Rx attribute 63, 115, 162, 173, 178 Broadcast Packets Tx attribute 64, 116, 162, 173, 178 Burst(Bytes) attribute 235 Bytes Delta Avg Rx attribute 192, 199 Bytes Delta Avg Tx attribute 192, 199 Bytes Delta Max Rx attribute 193, 199 Bytes Delta Max Tx attribute 193, 199 Bytes Delta Min Rx attribute 193, 199 Bytes Delta Min Tx attribute 193, 199 Bytes Delta Rx attribute 193, 200 Bytes Delta Tx attribute 193, 200 Bytes Rx attribute 194, 200, 204, 348, 434 Bytes Tx attribute 194, 200, 204, 348, 434

С

Cache Hit Percent attribute 211 Cache Hits attribute 211 Cache Misses attribute 211 Cached Memory attribute 206 calculate historical data disk space 504 Capacity (MB) attribute 315, 409 capacity planning for historical data 504 Card DN attribute 273, 275, 277, 280, 282, 285, 348, 374, 377, 379, 382, 385, 388, 434 Card ID attribute 273, 275, 277, 280, 282, 285, 349, 375, 377, 379, 382, 385, 388, 434 Carrier Sense (errors) attribute 59, 111, 167 Cause attribute 103 Change Boot Policy of Service Profile action 576 Chassis situations 528 workspaces descriptions 21 Chassis Backplane LAN Error attribute group 55 Chassis Backplane LAN Loss attribute group 58 Chassis Backplane LAN Pause attribute group 61 Chassis Backplane LAN Statistics attribute group 63 Chassis Backplane Port Network Details workspace 21 Chassis Configuration Details attribute group 66 Chassis Configuration workspace 21 Chassis Details workspace 21 Chassis DN attribute 56, 59, 61, 64, 66, 68, 70, 72, 74, 75, 77, 79, 82, 83, 85, 87, 88, 90, 91, 93, 96, 97, 183, 355, 357, 358, 360, 363, 365, 367, 369, 372, 375, 377, 379, 383, 385, 388, 391, 393, 395, 398, 401, 403, 405, 407, 409, 412, 414, 416, 418, 420, 422, 425, 429, 431, 434 Chassis Fan Health Summary attribute group 68 Chassis Fan Module Configuration attribute group 70 Chassis Fan Module Details workspace 22 Chassis Fan Module Health attribute group 72 Chassis Fan Module Temperature attribute group 74 Chassis Fan Statistics attribute group 75 Chassis Hardware Firmware attribute group 77 Chassis Health Summary attribute group 78 Chassis Health workspace 22 Chassis I/O Module Details workspace 22

Chassis ID attribute 56, 59, 62, 64, 67, 68, 70, 72, 74, 75, 77, 79, 82, 83, 85, 87, 89, 90, 91, 94, 96, 97, 153, 183, 248, 355, 357, 358, 360, 363, 365, 367, 369, 372, 375, 377, 379, 383, 385, 388, 391, 393, 395, 398, 401, 403, 405, 407, 410, 412, 414, 416, 418, 420, 422, 425, 429, 431, 435 Chassis IO Backplane Port Health attribute group 81 Chassis IO Module Configuration attribute group 83 Chassis IO Module Health Summary attribute group 85 Chassis IO Module Temperature attribute group 87 Chassis Power Statistics attribute group 88 Chassis PSU Configuration attribute group 90 Chassis PSU Details workspace 22 Chassis PSU Health Summary attribute group 91 Chassis PSU Statistics attribute group 93 Chassis Slot Details attribute group 95 Chassis Slot Utilization Summary attribute group 97 Chassis workspace 21 ChassisAndFabricExtender Health Summary attribute group 98 Check Point attribute 308, 401, 478 Cisco UCS situations 517 workspaces descriptions 18 Cisco UCS agent performance considerations 645 Cisco UCS Topology attribute group 102 Cisco UCS Topology workspace 18 Cisco UCS workspace 18 Clear Action attribute 447 Clear Interval attribute 447 Clock (MHz) attribute 315, 410 Coherency Support attribute 214 collecting SSL certificates 10 commands tacmd addSystem 12 Take Action 575 Component attribute 224 Component DN attribute 99, 102, 224 Component ID attribute 99, 102 Component Status attribute 102 Component Type attribute 102 components 3 IBM Tivoli Monitoring 3 Config State attribute 444, 449, 454 configuration 10 agent 7 fields 10 problems and workarounds 635 remote 12 values 10 Configuration State attribute 79, 99, 130, 439, 441 configuring the monitoring agent 7 Connect To Node attribute 103 Connection Protocol attribute 268, 369 Connection Type attribute 103 Console Redirection attribute 221 Consumed Power (W) attribute 325, 418 Core File Exporter DN attribute 446 Core Multi Processing attribute 214 CPU DN attribute 259, 262, 264, 360, 363, 366 CPU Environment Stats DN attribute 264, 366 CPU ID attribute 259, 262, 264, 313, 360, 363, 366, 405 CPU Performance attribute 215 CPU Stepping attribute 260, 361 CPU Temperature (C) attribute 264, 366 CRC Rx (errors) attribute 189

Created Time attribute 104 creating user ID in Cisco UCSM infrastructure 10 Current (A) attribute 143 Current attribute 188 Current Capacity attribute 313, 405

D

data collection 7 Data Model 620 data sources 7 Datacenter DN attribute 482, 483, 487 Datacenter Name attribute 490 DCE Interface DN attribute 266, 368 DCE Interface ID attribute 266, 368 DDR3 Array Temperature (C) attribute 320, 412 Default Gateway attribute 231 Deffered Tx (errors) attribute 56, 108, 160 Delta Average Packets Rx attribute 194, 200 Delta Average Packets Tx attribute 194, 200 Delta Maximum Packets Rx attribute 194, 201 Delta Maximum Packets Tx attribute 194, 201 Delta Minimum Packets Rx attribute 195, 201 Delta Minimum Packets Tx attribute 195, 201 Delta Packets Rx attribute 195, 201 Delta Packets Tx attribute 195, 201 Deployment (Boot-loader) attribute 156 Deployment (Kernel) attribute 156 Deployment (System) attribute 156 Deployment attribute 77, 128, 300, 351, 393 Description attribute 104, 151, 215, 219, 221, 223, 226, 227, 236, 237, 242, 446, 460, 482, 483, 485, 487, 489, 491, 492, 493, 497 descriptions 517 Destination DN attribute 463, 465 Destination Type attribute 456 detailed 629 developerWorks website 764 DHCP Vendor Id attribute 231 die1 attribute 119 Direct Cache Access attribute 215 Direction attribute 443, 445, 449, 450, 451, 453, 454, 466, 468, 469, 471, 472, 473 Discard Rx (errors) attribute 189 Discard Tx (errors) attribute 190 Discovery attribute 134 Discovery Library Adapter 759 See DLA Discovery Library Toolkit 759 installing 760 Discovery State attribute 308, 402, 478 disk capacity planning for historical data 504 Disk Dn attribute 271 Disk DN attribute 268, 341, 344, 369, 372 Disk Id attribute 271 Disk ID attribute 268, 342, 344, 370, 372 Disk Scrub attribute 236 DLA 749,759 data model 749 classes 749 documentation See publications Down attribute 443 Dropped Rx attribute 349, 435 Dropped Tx attribute 349, 435 DVS DN attribute 483, 485, 497 DVS Name attribute 491

Ε

enabling SSL communication 10 Enabling SSL communication agents cisco ucs 13 Enforce vNIC/vHBA Name attribute 223 Enhanced Intel Speedstep attribute 215 enhancements 2 Environment Stats DN attribute 119 Equal to 64 (packets) attribute 285, 388 Equipment attribute 439, 441 Error Code attribute 211 Errors Rx attribute 349, 435 Errors Tx attribute 349, 435 ESX Host DN attribute 485 ESX Host Server DN attribute 497 ESX Host Server Health workspace 35 Ether Port Error Stats DN attribute 275, 378 Ether Port Large Stats DN attribute 277, 380 Ether Port Mcast Stats DN attribute 273, 375 Ether Port Outsized Stats DN attribute 280, 383 Ether Port Packets Stats DN attribute 283, 385 Ether Port Small Stats DN attribute 285, 389 Ether Received Stats DN attribute 163, 173, 178 Ether Transmitted Stats DN attribute 163, 173, 178 event mapping 653 Events attribute 457 Excess Collision (errors) attribute 59, 111, 167 Execute Disabled Bit attribute 215 Exhaust Temperature (C) attribute 74, 295 Explanation attribute 104 Extension Key attribute 483 ExtVMMDN attribute 482, 484, 487, 492, 494

F

Fabric DN attribute 445, 449, 450, 452, 453, 454, 463, 465, 466, 468, 471, 473, 489, 491, 502 Fabric Extender situations 536 workspaces descriptions 23 Fabric Extender Backplane Port Network Details workspace 23 Fabric Extender Configuration workspace 23 Fabric Extender Details workspace 23 Fabric Extender DN attribute 106, 108, 111, 114, 116, 119, 121, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 141, 143, 144 Fabric Extender Fan Details workspace 23 Fabric Extender Health workspace 24 Fabric Extender I/O Module Details workspace 24 Fabric Extender ID attribute 106, 109, 112, 114, 116, 119, 121, 123, 124, 127, 128, 130, 132, 134, 136, 138, 140, 141, 143, 144 Fabric Extender PSU Details workspace 24 Fabric Extender workspace 23 Fabric ID attribute 84, 106, 121, 136, 445, 449, 450, 452, 453, 455, 463, 465, 467, 468, 469, 471, 472, 474, 495 Fabric Interconnect Configurations workspace 24 Fabric Interconnect Details workspace 25 Fabric Interconnect DN attribute 146, 148, 150, 152, 154, 156, 158, 160, 167, 169, 179, 181, 183, 184, 186, 188, 190, 204, 206, 207 Fabric Interconnect Health workspace 25 Fabric Interconnect Hist LAN Port Details workspace 25 Fabric Interconnect Hist SAN Port Details workspace 25

Fabric Interconnect ID attribute 147, 148, 150, 152, 154, 156, 158, 160, 167, 169, 174, 179, 181, 183, 184, 186, 188, 190, 202, 204, 206, 207, 266, 302, 329, 368, 395, 422 Fabric Interconnect LAN Port Channel Current Statistics workspace 25 Fabric Interconnect LAN Port Details workspace 26 Fabric Interconnect LAN Port Historical Statistics workspace 26 Fabric Interconnect PSU Details workspace 26 Fabric Interconnect SAN Port Channel Current Statistics workspace 26 Fabric Interconnect SAN Port Details workspace 26 Fabric Interconnect SAN Port Historical Statistics workspace 27 Fabric Interconnects situations 544 workspaces descriptions 24 Fabric Interconnects workspace 27 Facility attribute 459 Fan Controller Inlet1 attribute 207 Fan Controller Inlet2 attribute 207 Fan Controller Inlet3 attribute 207 Fan Controller Inlet4 attribute 208 Fan DN attribute 76, 127, 148, 150, 287, 289, 296 FAN DN attribute 68, 123, 125 Fan ID attribute 76, 127, 148, 150, 287, 289, 297 FAN ID attribute 68, 123, 125 Fan Module DN attribute 70, 72, 75, 76, 287, 289, 292, 293, 295, 297 FAN Module DN attribute 68 Fan Module ID attribute 71, 72, 75, 76, 288, 290, 292, 293, 296, 297 FAN Module ID attribute 68 Fan Speed attribute 76, 127, 297 Fan Stats DN attribute 76, 127, 297 Fault Code attribute 104 Fault Collection Policy DN attribute 448 Fault DN attribute 104, 448 Fault ID attribute 104 Faults situations 552 workspaces descriptions 28 Faults attribute 458 Faults attribute group 103 Faults workspace 28 Faults, Events and Logs Configuration workspace 28 Faulty Fans attribute 79, 99, 130 FC Stats DN attribute 195, 202 FCoE Storage Port DN attribute 449 FCoE Storage Ports attribute 181 FCPORT Stats DN attribute 298, 391 FCS (errors) attribute 56, 109, 160 FEX Backplane Port Config attribute group 106 FEX Backplane Port Error attribute group 108 FEX Backplane Port Loss attribute group 111 FEX Backplane Port Pause attribute group 113 FEX Backplane Statistics attribute group 115 FEX Environment Statistics attribute group 119 FEX Fabric Port Config attribute group 120 FEX Fan Configuration Details attribute group 122 FEX Fan Health Summary attribute group 124 FEX Fan Speed Statistics attribute group 126 FEX Firmware attribute group 128 FEX Health Summary attribute group 129 FEX IO Backplane Port Health attribute group 132

FEX IO Fabric Port Health attribute group 134 FEX IO Module Configuration attribute group 136 FEX IO Module Health Summary attribute group 138 FEX IO Module Temperature attribute group 139 FEX PSU Configuration Details attribute group 141 FEX PSU Environment Statistics attribute group 143 FEX PSU Health Summary attribute group 144 FI Configuration Details attribute group 146 FI Fan Configuration Details attribute group 148 FI Fan Health Summary attribute group 149 FI Fixed Expansion Configuration attribute group 151 FI Fixed Expansion Port Health attribute group 153 FI Hardware Firmware attribute group 155 FI Health Summary attribute group 158 FI LAN Error Statistics attribute group 159 FI LAN Hist Statistics attribute group 162 FI LAN Loss Statistics attribute group 167 FI LAN Pause Statistics attribute group 169 FI LAN Port Channel Aggregate Statistics attribute group 171 FI LAN Port Channel Statistics attribute group 173 FI LAN Statistics attribute group 178 FI Port Summary attribute group 181 FI Port Usage attribute group 183 FI PSU Configuration Details attribute group 184 FI PSU Health Summary attribute group 185 FI PSU Statistics attribute group 188 FI SAN Error Statistics attribute group 189 FI SAN Hist Statistics attribute group 192 FI SAN Port Channel Aggregate Statistics attribute group 196 FI SAN Port Channel Statistics attribute group 198 FI SAN Statistics attribute group 204 FI System Statistics attribute group 205 FI Temperature Statistics attribute group 207 Fiber Channel Error Stats DN attribute 190 Fiber Channel Stats DN attribute 204 Flap Interval attribute 448 Flow Control attribute 221 Folder attribute 491 Folder DN attribute 484, 487 From attribute 245, 249, 252 Front Panel Lockout attribute 219 Front Temperature (C) attribute 327, 420 FSM Stage Description attribute 478

G

Giants (errors) attribute 59, 112, 167 Good (packets) attribute 283, 386 Greater than or equal to 9216 (packets) attribute 277, 380

Η

hardware and software prerequisites 10 HBA DN attribute 299, 302, 305, 391, 395, 399 HBA ID attribute 299, 302, 305, 391, 396, 399 Health attribute 69, 72, 80, 82, 85, 91, 99, 125, 130, 133, 134, 138, 144, 150, 154, 158, 186, 209, 255, 262, 266, 271, 290, 294, 306, 308, 310, 318, 323, 332, 335, 344, 346, 353, 357, 364, 372, 399, 402, 407, 416, 425, 427, 431, 437, 439, 441, 463, 465, 478, 480, 485, 494, 497, 500 Highest Severity attribute 104 historical data calculate disk space 504 disk capacity planning 504 Host Control attribute 235 Host Network IO Performance attribute 489 Hostname (or IP Address) attribute 446, 459, 494 Hyper Threading attribute 215

I

IBM Tivoli Monitoring 3 overview 1 ID attribute 244, 246 include file 760 Initiator DN attribute 244 Initiator Name attribute 231 inlet attribute 119 inlet1 attribute 120 Input Current (A) attribute 265, 311, 325, 366, 403, 418 Input Power (W) attribute 89 Input Power(W) attribute 337 Input Voltage (V) attribute 326, 338, 418 Input Voltage 210V attribute 94 installation 10 agent 7 problems and workarounds 635 remote 12 installing language packs 7 installing the monitoring agent 7 Int Mac Rx (errors) attribute 57, 109, 160 Int Mac Tx (errors) attribute 57, 109, 161 Integrated Service Management Library documentation 764 Intel Entry SAS RAID attribute 222 Intel Entry SAS RAID Module attribute 222 interface user 4 Internal Temperature (C) attribute 94 Interrupt Remap attribute 215 Intervals Skipped attribute 212 IO Hub 1 Temperature (C) attribute 327 IO Hub 2 Temperature (C) attribute 327 IO Module DN attribute 57, 59, 62, 64, 82, 84, 85, 88, 106, 109, 112, 114, 116, 121, 133, 135, 136, 138, 140 IO Module ID attribute 57, 60, 62, 64, 106, 109, 112, 114, 116, 121, 135 IO Module Port attribute 266 IO Module Stats DN attribute 88, 140 IPMI Access Profile Policy Configurations workspace 34 IPMI Policy DN attribute 226, 227, 437 IPMI User DN attribute 227 IPv4 Address attribute 232 iSCSI Adapter Policy attribute 232 iSCSI Boot DN attribute 228 iSCSI Boot Parameter Configurations workspace 34 iSCSI Boot Static Target DN attribute 230 iSCSI IPV4 Address attribute 230

J

Jumbo Packets Rx attribute 64, 116, 163, 174, 179 Jumbo Packets Tx attribute 64, 116, 163, 174, 179

iSCSI vNIC DN attribute 232

Κ

Kernel Version attribute 157 Key attribute 494 KV6_Blade_Server_Health_R situation 518 KV6_Blade_Server_Health_Y situation 518 KV6_Chassis_Backplane_Erors_Br situation 534 KV6_Chassis_Backplane_Erors_Hw situation 533
KV6_Chassis_Backplane_Loses_Dp situation 534 KV6_Chassis_Backplane_Loses_Hw situation 535 KV6_Chassis_Bckplane_Erors_Dup situation 534 KV6_Chassis_Bkplane_Pauses_Rcv situation 535 KV6_Chassis_Bkplane_Pauses_Trm situation 536 KV6_Chassis_Fan_Health_R situation 532 KV6_Chassis_Fan_Health_Y situation 532 KV6_Chassis_FanModule_Health_R situation 531 KV6_Chassis_FanModule_Health_Y situation 531 KV6_Chassis_Health_R situation 528 KV6_Chassis_Health_Y situation 529 KV6_Chassis_IO_Module_Health_R situation 529 KV6_Chassis_IO_Module_Health_Y situation 530 KV6_Chassis_IOBkplane_Health_R situation 532 KV6_Chassis_IOBkplane_Health_Y situation 533 KV6_Chassis_PSU_Health_R situation 530 KV6_Chassis_PSU_Health_Y situation 530 KV6_FEX_Backplane_Erors_Br situation 542 KV6_FEX_Backplane_Erors_Hw situation 541 KV6_FEX_Backplane_Loses_Dp situation 542 KV6_FEX_Backplane_Loses_Hw situation 543 KV6_FEX_Bckplane_Erors_Dup situation 542 KV6 FEX Bkplane Pauses Rcv situation 543 KV6_FEX_Bkplane_Pauses_Trm situation 544 KV6_FEX_Fabric_Port_Health_R situation 540 KV6_FEX_Fabric_Port_Health_Y situation 541 KV6_FEX_Fan_Health_Summary_R situation 537 KV6_FEX_Fan_Health_Summary_Y situation 537 KV6_FEX_Health_Summary_R situation 536 KV6_FEX_Health_Summary_Y situation 537 KV6_FEX_IO_Module_Health_R situation 538 KV6_FEX_IO_Module_Health_Y situation 538 KV6_FEX_Port_Health_R situation 539 KV6_FEX_Port_Health_Y situation 540 KV6_FEX_PSU_Health_Summary_R situation 539 KV6_FEX_PSU_Health_Summary_Y situation 539 KV6_FI_Fan_Health_R situation 545 KV6_FI_Fan_Health_Y situation 545 KV6_FI_Health_R situation 544 KV6_FI_Health_Y situation 544 KV6_FI_LAN_Port_Errors_Bff situation 548 KV6_FI_LAN_Port_Errors_Dup situation 548 KV6_FI_LAN_Port_Errors_Hw situation 547 KV6_FI_LAN_Port_Losses_Dup situation 549 KV6_FI_LAN_Port_Losses_Hw situation 549 KV6_FI_LAN_Port_Pauses_Rcv situation 549 KV6_FI_LAN_Port_Pauses_Trm situation 550 KV6_FI_Module_Health_R situation 546 KV6_FI_Module_Health_Y situation 547 KV6_FI_PSU_Health_R situation 546 KV6_FI_PSU_Health_Y situation 546 KV6_MAC_Pool_Health_R situation 568 KV6_MAC_Pool_Health_Y situation 568 KV6_Memory_Array_Unit_Health_R situation 519 KV6_Memory_Array_Unit_Health_Y situation 519 KV6_Motherboard_Health_R situation 518 KV6_Motherboard_Health_Y situation 519 KV6_RM_Adapter_Health_R situation 558 KV6 RM Adapter Health Y situation 559 KV6_RM_Card_Errors_Buffer situation 565 KV6_RM_Card_Errors_Hrdw situation 565 KV6_RM_CPU_Health_R situation 554 KV6_RM_CPU_Health_Y situation 554 KV6_RM_DCE_Interface_Health_R situation 560 KV6_RM_DCE_Interface_Health_Y situation 560 KV6_RM_Disk_Health_R situation 565 KV6_RM_Disk_Health_Y situation 566

KV6_RM_Ether_Port_Errors situation 562 KV6_RM_Fan_Health_R situation 558 KV6_RM_Fan_Health_Y situation 558 KV6_RM_Fan_Module_Health_R situation 557 KV6_RM_Fan_Module_Health_Y situation 557 KV6_RM_HBA_Bad_Frames situation 564 KV6_RM_Health_R situation 552 KV6_RM_Health_Y situation 552 KV6_RM_Memory_AU_Health_R situation 554 KV6_RM_Memory_AU_Health_Y situation 555 KV6_RM_Motherboard_Health_R situation 553 KV6_RM_Motherboard_Health_Y situation 553 KV6_RM_NIC_Health_R situation 561 KV6_RM_NIC_Health_Y situation 561 KV6_RM_NIC_Outsized_Dup situation 563 KV6_RM_NIC_Outsized_Hw situation 562 KV6_RM_NIC_Outsized_Jumbo situation 563 KV6_RM_NIC_Outsized_Malf situation 563 KV6_RM_NIC_Pause_Packets situation 564 KV6_RM_PSU_Health_R situation 559 KV6_RM_PSU_Health_Y situation 560 KV6_RM_SC_Disk_Health_R situation 556 KV6 RM SC Disk Health Y situation 556 KV6_RM_Storage_Cntrlr_Health_R situation 555 KV6_RM_Storage_Cntrlr_Health_Y situation 556 KV6_SAN_Pool_Health_R situation 569 KV6_SAN_Pool_Health_Y situation 569 KV6_Server_Adapter_Health_R situation 522 KV6_Server_Adapter_Health_Y situation 523 KV6_Server_Card_Errors_Buffer situation 528 KV6_Server_Card_Errors_Hrdw situation 528 KV6_Server_CPU_Health_R situation 520 KV6_Server_CPU_Health_Y situation 520 KV6_Server_Disk_Health_R situation 521 KV6_Server_Disk_Health_Y situation 522 KV6 Server Ether Port Errors situation 525 KV6_Server_HBA_Bad_Frames situation 527 KV6_Server_HBA_Health_R situation 524 KV6_Server_HBA_Health_Y situation 524 KV6_Server_NIC_Health_R situation 523 KV6_Server_NIC_Health_Y situation 523 KV6_Server_NIC_Outsized_Dup situation 526 KV6_Server_NIC_Outsized_Hw situation 525 KV6_Server_NIC_Outsized_Jumbo situation 526 KV6_Server_NIC_Outsized_Malf situation 526 KV6_Server_NIC_Pause_Packets situation 527 KV6_Server_Pool_Health_R situation 566 KV6_Server_Pool_Health_Y situation 567 KV6_Server_Storage_Health_R situation 521 KV6_Server_Storage_Health_Y situation 521 KV6_Service_Profile_Health_R situation 570 KV6_Service_Profile_Health_Y situation 570 KV6_TraficMonSesn_Health_LAN_R situation 550 KV6_TraficMonSesn_Health_LAN_Y situation 551 KV6_TraficMonSesn_Health_SAN_R situation 551 KV6_TraficMonSesn_Health_SAN_Y situation 551 KV6_UUID_Suffix_Pool_Health_R situation 567 KV6_UUID_Suffix_Pool_Health_Y situation 567 KV6 VMware ESX Host Health R situation 571 KV6_VMware_ESX_Host_Health_Y situation 572 KV6_VMware_vCenter_Health_R situation 570 KV6_VMware_vCenter_Health_Y situation 571 KV6_VMware_VM_Health_R situation 572 KV6_VMware_VM_Health_Y situation 572 KV6_VMware_vNIC_Health_R situation 573 KV6_VMware_vNIC_Health_Y situation 573

L

LAN Boot DN attribute 234 language packs 7 installing 7 silent installation 7 Last Collection Duration attribute 212 Last Collection Finished attribute 212 Last Collection Start attribute 212 Last Transaction Time attribute 104 Late Collision (errors) attribute 60, 112, 167 Leadership attribute 159 Legacy OS Redirect attribute 222 Less than 1024 (packets) attribute 286, 389 Less than 128 (packets) attribute 286, 389 Less than 1518 (packets) attribute 380 Less than 2048 (packets) attribute 278, 380 Less than 256 (packets) attribute 286, 389 Less than 4096 (packets) attribute 278, 380 Less than 512 (packets) attribute 286, 389 Less than 64 (packets) attribute 286, 389 Less than 8192 (packets) attribute 278, 380 Less than 9216 (packets) attribute 278, 381 Less Than or Equal To 1518 (packets) attribute 278 Level attribute 456, 459 Link Failures (errors) attribute 190 list of messages 651 Load attribute 206 Local Disk Configuration Policy DN attribute 437 Locale attribute 171, 174, 196, 202 Location attribute 315, 410 LUN ID attribute 230 LV DDR Mode attribute 216

Μ

MAC Address attribute 232, 332, 425 MAC Address DN attribute 245 MAC attribute 267, 329, 422, 500 MAC Discarded (packets) attribute 276, 378 MAC DN attribute 247 MAC Pool Configurations workspace 32 MAC Pool Details attribute group 209 MAC Pool DN attribute 209, 245, 247 Main Board Outlet1 attribute 208 Main Board Outlet2 attribute 208 Make Device Non Bootable attribute 216 Management Controller DN attribute 77, 128, 157, 301, 393 Max Capacity attribute 313, 405 Max Devices attribute 313, 405 Max Memory Below 4G attribute 216 Max Ports attribute 489 Memory Array DN attribute 318 Memory Array ID attribute 318 Memory Array Unit DN attribute 310, 311, 313, 315, 320, 404, 406, 408, 410, 413 Memory Array Unit ID attribute 310, 312, 313, 316, 320, 404, 406, 408, 410, 413 Memory Array Unit Stats DN attribute 312, 404 Memory Mapped IO Above 4Gb Config attribute 216 Memory RAS Config attribute 216 Memory Unit DN attribute 316, 318, 321, 410, 413 Memory Unit ID attribute 316, 318, 321, 410, 413 Memory Unit Temperature Stats DN attribute 321, 413 messages contents 650

messages (continued) for IBM Tivoli Monitoring for Virtual Environments Agent for Cisco UCS 651 format 650 Mirroring Mode attribute 216 Modify Boot Policy action 577 Module attribute 123, 148, 288 Motherboard DN attribute 260, 262, 265, 269, 271, 310, 312, 314, 316, 318, 321, 322, 323, 326, 327, 339, 342, 344, 346, 361, 364, 366, 370, 372, 404, 406, 408, 411, 413, 414, 416, 419, 420, 429, 431 Motherboard ID attribute 322, 324, 414, 416 Motherboard Power Stats DN attribute 326, 419 Motherboard Temp Stats DN attribute 328 Motherboard Temperature Stats DN attribute 420 Multi Collision (errors) attribute 60, 112, 168 Multicast (packets) attribute 273, 375 Multicast Packets Rx attribute 65, 117, 163, 174, 179 Multicast Packets Tx attribute 65, 117, 163, 174, 179

Ν

Name attribute 209, 216, 219, 222, 226, 227, 230, 232, 235, 236, 237, 242, 244, 245, 248, 249, 252, 267, 303, 329, 353, 396, 422, 427, 437, 456, 459, 460, 463, 465, 470, 471, 472, 474, 482, 484, 485, 487, 489, 491, 492, 494, 496, 497, 499, 500, 503 Native VLAN attribute 503 Network Control Policy attribute 489 Network Control Policy DN attribute 489 Network type attribute 107, 121 Network Type attribute 154 new in this release 2 NIC DN attribute 329, 332, 422, 425 NIC ID attribute 329, 332, 423, 425 No breakdown greater than 1518 (packets) attribute 278, 381 No of Enabled Cores attribute 260, 361 Node attribute 57, 60, 62, 65, 67, 69, 71, 73, 75, 76, 78, 80, 82, 84, 86, 88, 89, 90, 92, 94, 96, 98, 100, 103, 105, 107, 109, 112, 114, 117, 120, 121, 123, 125, 127, 128, 130, 133, 135, 136, 138, 140, 141, 143, 145, 147, 148, 150, 152, 154, 157, 159, 161, 164, 168, 169, 171, 174, 179, 182, 183, 184, 186, 188, 190, 195, 197, 202, 204, 206, 208, 210, 213, 217, 219, 222, 223, 224, 226, 227, 229, 230, 232, 234, 235, 237, 238, 239, 240, 241, 243, 244, 245, 247, 248, 249, 251, 252, 253, 255, 257, 258, 260, 263, 265, 267, 269, 271, 273, 276, 279, 280, 283, 286, 288, 290, 292, 294, 296, 297, 299, 301, 303, 306, 308, 310, 312, 314, 316, 318, 321, 322, 324, 326, 328, 329, 332, 334, 335, 338, 340, 342, 344, 346, 349, 351, 353, 355, 357, 358, 361, 364, 366, 368, 370, 373, 375, 378, 381, 383, 386, 390, 391, 394, 396, 399, 402, 404, 406, 408, 411, 413, 415, 416, 419, 420, 423, 425, 427, 429, 432, 435, 437, 440, 441, 443, 445, 446, 448, 449, 451, 452, 453, 455, 456, 458, 459, 461, 463, 465, 467, 468, 470, 471, 472, 474, 475, 478, 480, 482, 484, 486, 487, 489, 491, 492, 494, 496, 498, 499, 500, 503 Normal Value attribute 462 NUMA attribute 217 Number of Blocks attribute 269, 370 Number of Collections attribute 213 Number of Cores attribute 260, 361 Number of Ports attribute 152

0

Object Name attribute213Object Status attribute213Object Type attribute213Occurrences attribute105

Oper Power attribute 324, 417 Oper State attribute 175, 202, 346, 432, 438 Operability attribute 69, 73, 86, 92, 100, 125, 131, 138, 145, 150, 186, 255, 263, 271, 290, 294, 318, 335, 344, 346, 357, 364, 373, 432 Operabiltiy attribute 80 operating systems 7 Operational Speed attribute 440, 441 Operational State attribute 464, 465 Operational State Reason attribute 464, 466 OperState attribute 69, 73, 80, 82, 86, 92, 100, 125, 131, 133, 135, 138, 145, 154, 351 Order attribute 229, 234, 239, 241 ORG Root DN attribute 210, 217, 219, 222, 224, 225, 226, 228, 229, 230, 232, 234, 235, 237, 238, 239, 240, 242, 243, 244, 246, 247, 248, 250, 251, 252, 353, 428, 438, 440, 442, 470, 472, 480 Original MAC attribute 330, 423 Original Severity attribute 105 Original WWNN attribute 303, 396 Original WWPN attribute 303, 396 OS Boot Watchdog Timer attribute 222 Out Discard (errors) attribute 57, 110, 161 outlet1 attribute 120 outlet2 attribute 120 Output Current (A) attribute 338 Output Current attribute 94 Output Power (W) attribute 89 Output Power attribute 94 Output Power(W) attribute 338 Output Voltage 12V attribute 94 Output Voltage 3V3 attribute 95 Output Voltage(V) attribute 338 Overall Status attribute 290, 294, 319, 336, 478 Overlay vNIC attribute 232 Oversized (packets) attribute 280, 383 Oversized bad CRC (packets) attribute 281, 383 Oversized good CRC (packets) attribute 281, 383 overview IBM Tivoli Monitoring 1 Owner attribute 488, 493

Ρ

Package Version (System) attribute 157 Package Version attribute 257, 351 Packets Rx attribute 195, 202, 204, 350, 435 Packets Tx attribute 196, 202, 205, 350, 436 Parent DN attribute 225, 230, 456, 478, 496, 499, 501 Pass Through DMA Support attribute 217 Password attribute 228 Path attribute 446 Pause (packets) attribute 283, 386 PCI Address attribute 303, 396 PCI Slot attribute 254, 355 PCIe Address attribute 340, 429 Peer attribute 107, 121 Per priority (packets) attribute 283, 386 Performance attribute 69, 73, 92, 125, 145, 150, 186, 290, 294, 306, 310, 319, 324, 332, 336, 346, 399, 408, 417, 426, 432 performance considerations 645 Performance Object Status situations 552 workspaces descriptions 28 Performance Object Status attribute group 211 Performance Object Status workspace 28

PID attribute 67, 71, 84, 90, 100, 123, 131, 137, 141, 147, 149, 152, 184, 254, 258, 260, 269, 288, 292, 303, 314, 316, 322, 330, 334, 340, 342, 355, 359, 361, 370, 396, 406, 411, 415, 423, 429 Pin Group attribute 490 policies 581 Policy BIOS Advanced Configurations attribute group 214 Policy BIOS Configuration Summary attribute group 218 Policy BIOS Configurations attribute group 220 Policy Boot Configuration Summary attribute group 223 Policy Boot Order Configuration Details attribute group 224 Policy IPMI Access Profile Configuration Summary attribute group 226 Policy IPMI User Configuration Details attribute group 227 Policy iSCSI Boot Order Configuration Summary attribute group 228 Policy iSCSI Static Target Interface Configuration Details attribute group 229 Policy iSCSI vNIC Configuration Summary attribute group 231 Policy LAN Boot Order Configuration Summary attribute group 233 Policy QoS Configuration Details attribute group 235 Policy Scrub Configuration Details attribute group 236 Policy Serial Over LAN Configuration Details attribute group 237 Policy Storage Boot Order Configuration Summary attribute group 239 Policy Virtual Host Interface Configuration Details attribute group 240 Policy Virtual Media Boot Order Configuration Details attribute group 241 Policy vNICvHBA Placement Configuration Summary attribute group 242 Pool Initiator Configuration Details attribute group 243 Pool MAC Address Configuration Details attribute group 245 Pool MAC Configuration Details attribute group 246 Pool Name attribute 481 Pool Server Configuration Details attribute group 247 Pool UUID Block Configuration Details attribute group 249 Pool UUID Suffix Configuration Details attribute group 250 Pool WWN Initiator Block Configuration Details attribute group 252 Poolable attribute 247 Populate Devices attribute 314, 406 Port attribute 230, 445, 447, 449, 451, 452, 453, 455, 467, 468 Port Channel DN attribute 171, 175, 197, 203, 451, 452 Port Channel EPDN attribute 175, 203 Port Channel Peer DN attribute 175, 203 Port DN attribute 107, 117, 122, 135, 154, 161, 164, 168, 169, 175, 180, 191, 196, 203, 205 Port Error Stats DN attribute 161 Port ID attribute 58, 60, 62, 65, 83, 107, 110, 113, 114, 117, 122, 133, 135, 155, 161, 164, 168, 170, 175, 180, 191, 196, 203, 205 Port Loss Stats DN attribute 168 Port Pause Stats DN attribute 170 Port Profile Configurations workspace 35 Port Profile DN attribute 490, 491, 503 Port Role attribute 155 Port Type attribute 107, 122 Ports Used attribute 183 Post Error Pause attribute 220 Power attribute 69, 73, 80, 92, 100, 125, 131, 145, 151, 186, 188, 263, 290, 294, 306, 319, 332, 336, 346, 364, 399, 426, 432 Power State attribute 308, 402, 478 Power(W) attribute 143 PPP (packets) attribute 283, 386

prerequisite publications 763

prerequisites, hardware and software 10 Presence attribute 69, 73, 80, 86, 92, 100, 126, 131, 139, 145, 151, 186, 263, 271, 290, 294, 310, 319, 336, 342, 344, 346, 364, 373, 408, 432 Prev Assigned To attribute 251 Previous Severity attribute 105 Primary DNS attribute 233 Priority attribute 231, 235 probe rules file include 760 problems and workarounds 634 agent-specific 639 agent-specific workspaces 642 configuration 635 install 635 remote deployment 639 situations 645 Take Action commands 647 Tivoli Common Reporting 647 workspaces 642 Processor Architecture attribute 261, 361 Processor C3 Report attribute 217 Processor C6 Report attribute 217 Profile Client DN attribute 492 Profile Name attribute 501 Property attribute 462 PSU Controller Inlet1 attribute 208 PSU Controller Inlet2 attribute 208 PSU DN attribute 90, 92, 95, 142, 143, 145, 185, 187, 188, 334, 336, 338 PSU ID attribute 90, 93, 95, 142, 143, 146, 185, 187, 189, 334, 336, 339 PSU Input Stats DN attribute 189 PSU Stats DN attribute 95, 144, 339 publications 763, 764 developerWorks website 764 IBM Tivoli Monitoring 763 Integrated Service Management Library 764 prerequisite 763 Redbooks 764 related 764 Technotes 764 wikis 764 Purpose attribute 267, 303, 330, 353, 396, 423

Q

QOS Policy attribute 490 QoS Policy Configurations workspace 34 QoS Policy DN attribute 235, 306, 332, 399, 426, 440, 442, 490 queries, using attributes 39 Query Name attribute 213 Quiet Boot attribute 220

R

Rack ID attribute 248 Rack Mount Server DN attribute 254, 256, 257, 258, 261, 263, 265, 267, 269, 272, 274, 276, 279, 281, 284, 287, 288, 291, 292, 294, 296, 297, 299, 301, 304, 306, 309, 310, 312, 314, 316, 319, 321, 322, 324, 326, 328, 330, 333, 334, 336, 339, 340, 342, 344, 347, 350, 351

Rack Mount Server ID attribute 254, 256, 257, 258, 261, 263, 265, 267, 269, 272, 274, 276, 279, 281, 284, 287, 288, 291, 292, 295, 296, 298, 299, 301, 304, 306, 309, 311, 312, 314, 317, 319, 321, 322, 324, 326, 328, 330, 333, 334, 336, 339, 340, 342, 345, 347, 350, 351 Rack Mount Servers situations 552 workspaces descriptions 28 Rack Mount Servers workspace 28 Rack-Mount Server Adapter Health workspace 29 Rack-Mount Server Configurations workspace 29 Rack-Mount Server CPU Details workspace 29 Rack-Mount Server DCE Interface Details workspace 29 Rack-Mount Server Fan Module Details workspace 30 Rack-Mount Server HBA Details workspace 30 Rack-Mount Server Health workspace 30 Rack-Mount Server Memory Array Unit Details workspace 30 Rack-Mount Server Motherboard Details workspace 31 Rack-Mount Server NIC Details workspace 31 Rack-Mount Server PSU Details workspace 31 RAID Support attribute 340, 429 ras1 631 Rate(Kbps) attribute 236 Rcv (errors) attribute 58, 110, 161 Rear Temperature (C) attribute 328, 420 Rear Temperature Left(C) attribute 421 Rear Temperature Right(C) attribute 421 Reboot on BIOS Settings Change attribute 220 Reboot on Boot Order Change attribute 224 Recommended Action attribute 105 Recv Pause attribute 62, 115, 170 Redbooks 764 Refresh Interval attribute 214 remote installation and configuration 12 remote deployment problems and workarounds 639 report installer log 647 requirements 7 Resets attribute 62, 115, 170 response file template 7 Resume Ac On Power Loss attribute 220 Retention Interval attribute 448 Revision attribute 67, 71, 84, 90, 100, 123, 137, 142, 147, 149, 152, 185, 254, 258, 261, 269, 288, 292, 304, 317, 323, 330, 334, 340, 343, 355, 359, 362, 370, 397, 411, 415, 423, 430 RM Server Adapter Configuration attribute group 253 RM Server Adapter Health Summary attribute group 255 RM Server BIOS Firmware attribute group 256 RM Server Configuration Details attribute group 258 RM Server CPU Configuration attribute group 259 RM Server CPU Health Summary attribute group 262 RM Server CPU Statistics attribute group 264 RM Server DCE Interface Health attribute group 266 RM Server Disk Configuration attribute group 268 RM Server Disk Health Summary attribute group 270 RM Server Ether Port Comm attribute group 272 RM Server Ether Port Error attribute group 274 RM Server Ether Port Large attribute group 276 RM Server Ether Port Outsized attribute group 279 RM Server Ether Port Packets attribute group 282 RM Server Ether Port Small attribute group 284 RM Server Fan Configuration attribute group 287 RM Server Fan Health Summary attribute group 289 RM Server Fan Module Details attribute group 291

RM Server Fan Module Health attribute group 293 RM Server Fan Module Temperature attribute group 295 RM Server Fan Statistics attribute group 296 RM Server FC Port Statistics attribute group 298 RM Server Firmware attribute group 300 RM Server HBA Configuration attribute group 302 RM Server HBA Health Summary attribute group 305 RM Server Health Summary attribute group 307 RM Server Memory Array Health attribute group 309 RM Server Memory Array Statistics attribute group 311 RM Server Memory Array Unit attribute group 313 RM Server Memory Unit Details attribute group 315 RM Server Memory Unit Health attribute group 317 RM Server Memory Unit Temp attribute group 320 RM Server Motherboard Details attribute group 322 RM Server Motherboard Health attribute group 323 RM Server Motherboard Power attribute group 325 RM Server Motherboard Temp attribute group 327 RM Server NIC Configuration attribute group 328 RM Server NIC Health Summary attribute group 331 RM Server PSU Configuration attribute group 334 RM Server PSU Health Summary attribute group 335 RM Server PSU Statistics attribute group 337 RM Server Storage Controller attribute group 339 RM Server Storage Disk attribute group 341 RM Server Storage Disk Health attribute group 343 RM Server Storage Health Summary attribute group 345 RM Server vNIC Statistics attribute group 348 RM Storage Firmware attribute group 350 Role attribute 228 Root Level DN attribute 443, 461, 462 Running Version attribute 78, 129, 301, 394 Rx (errors) attribute 191 Rx Bad frames (packets) attribute 299, 392 Rx Frames (packets) attribute 299, 392 Rx Stats DN attribute 117

S

SAN Pool Configurations workspace 32 SAN Pool Details attribute group 352 SAN Pool DN attribute 353 Scrub Policy DN attribute 237, 438 Secondary DNS attribute 233 Selection Preferences attribute 240 Serial Number (SN) attribute 67, 84, 86, 100, 124, 137, 139, 142, 147, 149, 152, 185, 254, 261, 270, 304, 317, 330, 341, 343, 356, 362, 370, 397, 411, 423, 430 Serial Number attribute 258, 323, 359, 415 Serial Number(SN) attribute 71, 91, 289, 293, 335 Serial Over LAN Policy DN attribute 238, 438 Serial over LAN State attribute 238 Serial Port A attribute 217 Server Adapter Configuration attribute group 354 Server Adapter Health Summary attribute group 356 Server and Identifier Pools situations 566 workspaces descriptions 32 Server and Identifier Pools workspace 32 Server Configuration Details attribute group 358 Server CPU Configuration Details attribute group 360 Server CPU Health Summary attribute group 363 Server CPU Statistics attribute group 365 Server DCE Interface Summary attribute group 367 Server Disk Configuration attribute group 369 Server Disk Health Summary attribute group 371

Server DN attribute 249, 479, 486, 498 Server Ether Port Communication attribute group 374 Server Ether Port Error attribute group 376 Server Ether Port Large attribute group 378 Server Ether Port Outsized attribute group 382 Server Ether Port Packets attribute group 384 Server Ether Port Small attribute group 387 Server FC Port Statistics attribute group 390 Server Hardware Firmware attribute group 392 Server HBA Configuration Details attribute group 394 Server HBA Health Summary attribute group 398 Server Health Summary attribute group 400 Server ID attribute 479 Server Memory Array Statistics attribute group 403 Server Memory Array Unit Details attribute group 404 Server Memory Array Unit Health attribute group 407 Server Memory Unit Configuration attribute group 409 Server Memory Unit Temperature attribute group 412 Server Motherboard Configuration attribute group 414 Server Motherboard Health attribute group 415 Server Motherboard Power attribute group 418 Server Motherboard Temperature attribute group 419 Server NIC Configuration Details attribute group 421 Server NIC Health Summary attribute group 424 Server Pool Configurations workspace 32 Server Pool Details attribute group 427 Server Pool DN attribute 249, 428 Server Port DN attribute 453 Server Port Source DN attribute 453 Server Ports attribute 182 Server Storage Controller attribute group 428 Server Storage Controller Health attribute group 431 Server vNIC Statistics attribute group 433 Service Profile Associated Policy Configurations workspace 34 Service Profile attribute 259, 359 Service Profile DN attribute 233, 238, 309, 402, 438, 440, 442, 470, 473, 479, 486, 498, 501 Service Profile Health attribute group 436 Service Profile Health workspace 34 Service Profile vNIC DN attribute 501 Service Profiles situations 569 workspaces descriptions 33 Service Profiles vHBA Health Summary attribute group 439 Service Profiles vNIC Health Summary attribute group 441 Service Profiles workspace 35 Session Name attribute 445, 450, 451, 452, 454, 455, 467, 468, 470, 471, 473, 474 Severity attribute 105, 443 Side attribute 84, 137, 267, 368 Signal Losses (errors) attribute 191 silent installation 7 silent installation of language packs 7 Single Collision (errors) attribute 60, 113, 168 situations 517 additional information predefined, defined 513 KV6_Blade_Server_Health_R 518 KV6_Blade_Server_Health_Y 518 KV6_Chassis_Backplane_Erors_Br 534 KV6_Chassis_Backplane_Erors_Hw 533 KV6_Chassis_Backplane_Loses_Dp 534 KV6_Chassis_Backplane_Loses_Hw 535 KV6_Chassis_Bckplane_Erors_Dup 534 KV6_Chassis_Bkplane_Pauses_Rcv 535

situations (continued) KV6_Chassis_Bkplane_Pauses_Trm 536 KV6_Chassis_Fan_Health_R 532 KV6_Chassis_Fan_Health_Y 532 KV6_Chassis_FanModule_Health_R 531 KV6_Chassis_FanModule_Health_Y 531 KV6_Chassis_Health_R 528 KV6_Chassis_Health_Y 529 KV6_Chassis_IO_Module_Health_R 529 KV6_Chassis_IO_Module_Health_Y 530 KV6_Chassis_IOBkplane_Health_R 532 KV6_Chassis_IOBkplane_Health_Y 533 KV6_Chassis_PSU_Health_R 530 KV6_Chassis_PSU_Health_Y 530 KV6_FEX_Backplane_Erors_Br 542 KV6_FEX_Backplane_Erors_Hw 541 KV6_FEX_Backplane_Loses_Dp 542 KV6_FEX_Backplane_Loses_Hw 543 KV6_FEX_Bckplane_Erors_Dup 542 KV6_FEX_Bkplane_Pauses_Rcv 543 KV6_FEX_Bkplane_Pauses_Trm 544 KV6_FEX_Fabric_Port_Health_R 540 KV6 FEX Fabric Port Health Y 541 KV6_FEX_Fan_Health_Summary_R 537 KV6_FEX_Fan_Health_Summary_Y 537 KV6_FEX_Health_Summary_R 536 KV6_FEX_Health_Summary_Y 537 KV6_FEX_IO_Module_Health_R 538 KV6_FEX_IO_Module_Health_Y 538 KV6_FEX_Port_Health_R 539 KV6_FEX_Port_Health_Y 540 KV6_FEX_PSU_Health_Summary_R 539 KV6_FEX_PSU_Health_Summary_Y 539 KV6_FI_Fan_Health_R 545 KV6_FI_Fan_Health_Y 545 KV6_FI_Health_R 544 KV6_FI_Health_Y 544 KV6_FI_LAN_Port_Errors_Bff 548 KV6_FI_LAN_Port_Errors_Dup 548 KV6_FI_LAN_Port_Errors_Hw 547 KV6_FI_LAN_Port_Losses_Dup 549 KV6_FI_LAN_Port_Losses_Hw 549 KV6_FI_LAN_Port_Pauses_Rcv 549 KV6_FI_LAN_Port_Pauses_Trm 550 KV6_FI_Module_Health_R 546 KV6_FI_Module_Health_Y 547 KV6_FI_PSU_Health_R 546 KV6_FI_PSU_Health_Y 546 KV6_MAC_Pool_Health_R 568 KV6_MAC_Pool_Health_Y 568 KV6_Memory_Array_Unit_Health_R 519 KV6_Memory_Array_Unit_Health_Y 519 KV6_Motherboard_Health_R 518 KV6_Motherboard_Health_Y 519 KV6_RM_Adapter_Health_R 558 KV6_RM_Adapter_Health_Y 559 KV6_RM_Card_Errors_Buffer 565 KV6_RM_Card_Errors_Hrdw 565 KV6 RM CPU Health R 554 KV6_RM_CPU_Health_Y 554 KV6_RM_DCE_Interface_Health_R 560 KV6_RM_DCE_Interface_Health_Y 560 KV6_RM_Disk_Health_R 565 KV6_RM_Disk_Health_Y 566 KV6_RM_Ether_Port_Errors 562 KV6_RM_Fan_Health_R 558 KV6_RM_Fan_Health_Y 558

situations (continued) KV6_RM_Fan_Module_Health_R 557 KV6_RM_Fan_Module_Health_Y 557 KV6_RM_HBA_Bad_Frames 564 KV6_RM_Health_R 552 KV6_RM_Health_Y 552 KV6_RM_Memory_AU_Health_R 554 KV6_RM_Memory_AU_Health_Y 555 KV6_RM_Motherboard_Health_R 553 KV6_RM_Motherboard_Health_Y 553 KV6_RM_NIC_Health_R 561 KV6_RM_NIC_Health_Y 561 KV6_RM_NIC_Outsized_Dup 563 KV6_RM_NIC_Outsized_Hw 562 KV6_RM_NIC_Outsized_Jumbo 563 KV6_RM_NIC_Outsized_Malf 563 KV6_RM_NIC_Pause_Packets 564 KV6_RM_PSU_Health_R 559 KV6_RM_PSU_Health_Y 560 KV6_RM_SC_Disk_Health_R 556 KV6_RM_SC_Disk_Health_Y 556 KV6_RM_Storage_Cntrlr_Health_R 555 KV6 RM Storage Cntrlr Health Y 556 KV6_SAN_Pool_Health_R 569 KV6_SAN_Pool_Health_Y 569 KV6_Server_Adapter_Health_R 522 KV6_Server_Adapter_Health_Y 523 KV6_Server_Card_Errors_Buffer 528 KV6_Server_Card_Errors_Hrdw 528 KV6_Server_CPU_Health_R 520 KV6_Server_CPU_Health_Y 520 KV6_Server_Disk_Health_R 521 KV6_Server_Disk_Health_Y 522 KV6_Server_Ether_Port_Errors 525 KV6_Server_HBA_Bad_Frames 527 KV6_Server_HBA_Health_R 524 KV6_Server_HBA_Health_Y 524 KV6_Server_NIC_Health_R 523 KV6_Server_NIC_Health_Y 523 KV6_Server_NIC_Outsized_Dup 526 KV6_Server_NIC_Outsized_Hw 525 KV6_Server_NIC_Outsized_Jumbo 526 KV6_Server_NIC_Outsized_Malf 526 KV6_Server_NIC_Pause_Packets 527 KV6_Server_Pool_Health_R 566 KV6_Server_Pool_Health_Y 567 KV6_Server_Storage_Health_R 521 KV6_Server_Storage_Health_Y 521 KV6_Service_Profile_Health_R 570 KV6_Service_Profile_Health_Y 570 KV6_TraficMonSesn_Health_LAN_R 550 KV6_TraficMonSesn_Health_LAN_Y 551 KV6_TraficMonSesn_Health_SAN_R 551 KV6_TraficMonSesn_Health_SAN_Y 551 KV6_UUID_Suffix_Pool_Health_R 567 KV6_UUID_Suffix_Pool_Health_Y 567 KV6_VMware_ESX_Host_Health_R 571 KV6_VMware_ESX_Host_Health_Y 572 KV6 VMware vCenter Health R 570 KV6_VMware_vCenter_Health_Y 571 KV6_VMware_VM_Health_R 572 KV6_VMware_VM_Health_Y 572 KV6_VMware_vNIC_Health_R 573 KV6_VMware_vNIC_Health_Y 573 overview 513 predefined 513 problems and workarounds 645

situations (continued) Situation Editor 513 situations, using attributes 39 Size (KB) attribute 457 Size (MB) attribute 270, 371 Size attribute 210, 353, 428, 481 Size Limit attribute 448 Slot attribute 445, 450, 454, 455, 467, 469 Slot DN attribute 153 Slot ID attribute 83, 84, 86, 88, 96, 98, 133, 137, 139, 141, 153, 155, 249, 259, 359 Slot Status attribute 98, 309, 402, 479 Slot Type attribute 153 Socket Name attribute 261, 362 software prerequisites 10 Sparing Mode attribute 218 Speed (GHz) attribute 261, 362 Speed attribute 238 SQE Test (errors) attribute 61, 113, 168 SSL certificate 10 communicating with data sources Cisco UCS 13 SSL certificates collecting 10 Startup Kernel Type attribute 157 Startup Kernel Version attribute 157 Startup System Type attribute 157 Startup System Version attribute 157 Startup Version attribute 78, 129, 301, 394 State attribute 159 Status attribute 486, 496, 498, 501 Storage Boot DN attribute 239 Storage Controller DN attribute 270, 341, 343, 345, 347, 352, 371, 373, 430, 432 Storage Controller ID attribute 270, 341, 343, 345, 347, 352, 371, 373, 430, 432 Storage Port DN attribute 455 Storage Port Source DN attribute 455 Subject attribute 78, 129, 301, 394 Subnet Mask attribute 233 support list of messages 651 SVC DN attribute 458, 460 Symbol (errors) attribute 61, 113, 169 Sync Losses (errors) attribute 191 Sys Mon Alarm Trigger Configuration Details attribute group 443 Sys Mon Appliance Port Configuration Details attribute group 444 Sys Mon Core File Exporter Configuration Details attribute group 446 Sys Mon Fault Collection Policy Configuration Details attribute group 447 Sys Mon FCoE Storage Port Configuration Details attribute group 449 Sys Mon Port Channel Configuration Details LAN attribute group 450 Sys Mon Port Channel Configuration Details SAN attribute group 451 Sys Mon Server Port Configuration Details attribute group 453 Sys Mon Storage Port Configuration Details attribute group 454 Sys Mon Syslog Local Destination Configuration Details attribute group 456 Sys Mon Syslog Local Sources Configuration Details attribute group 457

Sys Mon Syslog Remote Destination Configuration Details attribute group 459 Sys Mon Threshold Policy Configuration Summary attribute group 460 Sys Mon Threshold Policy Definition Configuration Summary attribute group 461 Sys Mon Traffic Monitoring Session Health Summary LAN attribute group 463 Sys Mon Traffic Monitoring Session Health Summary SAN attribute group 464 Sys Mon Uplink Ethernet Port Configuration Details attribute group 466 Sys Mon Uplink FC Port Configuration Details attribute group 468 Sys Mon vHBA Configuration Details attribute group 469 Sys Mon VLAN Configuration Details attribute group 471 Sys Mon vNIC Configuration Details attribute group 472 Sys Mon VSAN Configuration Details attribute group 473 Syslog DN attribute 458, 460 Syslog Local DN attribute 457 Syslog Local Source DN attribute 458 Syslog Remote DN attribute 460 System debug DN attribute 447 System DN attribute 447, 457, 458, 460 System Version attribute 158, 352

Т

tacmd addSystem command 12 Take Action commands additional information 575 Change Boot Policy of Service Profile 576 Modify Boot Policy 577 overview 575 predefined 575, 581 problems and workarounds 647 take actions descriptions 575 Target Lun ID attribute 225 Target Type attribute 225 Target WWN attribute 225 TCR data model 620 Technotes 764 Terminal Type attribute 222 The distinguished name of the vNIC/vHBA placement policy. attribute 240 Thermal attribute 69, 73, 80, 86, 93, 101, 126, 131, 139, 146, 151, 187, 256, 263, 291, 295, 306, 319, 324, 333, 337, 357, 364, 400, 417, 426 Thread Pool Active Threads attribute 475 Thread Pool Avg Active Threads attribute 475 Thread Pool Avg Job Wait attribute 475 Thread Pool Avg Queue Length attribute 475 Thread Pool Max Active Threads attribute 475 Thread Pool Max Queue Length attribute 476 Thread Pool Max Size attribute 476 Thread Pool Min Active Threads attribute 476 Thread Pool Min Queue Length attribute 476 Thread Pool Queue Length attribute 476 Thread Pool Size attribute 476 Thread Pool Status attribute group 474 Thread Pool Total Jobs attribute 477 Threads attribute 261, 362 Threshold Policy Class DN attribute 443, 462 Threshold Policy Definition Configurations workspace 35 Threshold Policy Definition DN attribute 444, 462 Threshold Policy Definitions workspace 35

Threshold Policy DN attribute 438, 444, 461, 462 Timestamp attribute 58, 61, 63, 65, 67, 70, 71, 73, 75, 76, 78, 81, 83, 85, 87, 88, 89, 91, 93, 95, 97, 98, 101, 103, 105, 107, 110, 113, 115, 117, 120, 122, 124, 126, 127, 129, 131, 133, 135, 137, 139, 141, 142, 144, 146, 147, 149, 151, 153, 155, 158, 159, 162, 164, 169, 170, 171, 175, 180, 182, 184, 185, 187, 189, 191, 196, 197, 203, 205, 206, 209, 210, 214, 218, 220, 223, 224, 225, 227, 228, 229, 231, 233, 234, 236, 237, 238, 239, 240, 242, 243, 245, 246, 247, 249, 250, 251, 252, 254, 256, 257, 259, 262, 264, 265, 267, 270, 272, 274, 276, 279, 281, 284, 287, 289, 291, 293, 295, 296, 298, 300, 302, 304, 307, 309, 311, 312, 314, 317, 319, 321, 323, 325, 326, 328, 331, 333, 335, 337, 339, 341, 343, 345, 347, 350, 352, 354, 356, 357, 359, 362, 365, 367, 368, 371, 373, 375, 378, 381, 384, 386, 390, 392, 394, 397, 400, 402, 404, 406, 408, 411, 413, 415, 417, 419, 421, 423, 426, 428, 430, 433, 436, 438, 440, 442, 444, 445, 447, 448, 450, 451, 452, 454, 455, 457, 458, 460, 461, 462, 464, 466, 467, 469, 470, 471, 473, 474, 477, 479, 481, 482, 484, 486, 488, 490, 492, 493, 494, 496, 498, 499, 501, 503 Tivoli Business Service Manager components for integrating with 759 configuring additional IBM Tivoli Monitoring web services 762 creating a service 761 creating data source mapping 761 installing Discovery Library Toolkit 760 integration 759 launching from Tivoli Enterprise Portal 762 Tivoli Enterprise Portal Tivoli Integration Facility (EIF) probe 759 viewing data in Tivoli Enterprise Portal 762 Tivoli Business Service Managerintegration tasks 760 Tivoli Common Reporting problems and workarounds 647 Tivoli Enterprise Console event mapping 653 Tivoli Event Integration Facility (EIF) probe configuring 760 To attribute 246, 250, 253 Too Long Rx (errors) attribute 191 Too Short Rx (errors) attribute 192 Top System attribute 101, 479 Total (packets) attribute 284, 387 Total Bytes Delta Avg Rx attribute 164, 171, 175, 197 Total Bytes Delta Avg Tx attribute 164, 171, 176, 197 Total Bytes Delta Max Rx attribute 164, 176 Total Bytes Delta Max Tx attribute 165, 176 Total Bytes Delta Min Rx attribute 165, 176 Total Bytes Delta Min Tx attribute 165, 176 Total Bytes Delta Rx attribute 165, 172, 176, 197 Total Bytes Delta Tx attribute 165, 172, 177, 197 Total Bytes Rx attribute 65, 118, 165, 177, 180 Total Bytes Tx attribute 66, 118, 166, 177, 180 Total Consumed Power (W) attribute 89 Total Fans attribute 81, 101, 132 Total Faults attribute 70, 74, 81, 83, 87, 93, 101, 126, 132, 134, 136, 139, 146, 151, 155, 159, 187, 210, 256, 264, 268, 272, 291, 295, 307, 309, 311, 320, 325, 333, 337, 345, 347, 354, 358, 365, 373, 400, 403, 409, 417, 426, 428, 433, 439, 440, 442, 464, 466, 479, 481, 486, 495, 498, 501 Total Free Slots attribute 81, 101 Total Memory (MB) attribute 147 Total Memory attribute 207 Total Occupied Slots attribute 81, 102 Total Packets Delta Avg Rx attribute 172, 198 Total Packets Delta Avg Tx attribute 172, 198 Total Packets Delta Rx attribute 172, 198

Total Packets Delta Tx attribute 172, 198 Total Packets Rx attribute 66, 118, 166, 177, 180 Total Packets Tx attribute 66, 118, 166, 177, 181 trace turn off 633 turn on 633 trace settings 631 tracing 629 Traffic Direction attribute 274, 276, 279, 281, 284, 287, 376, 378, 381, 384, 387, 390 Traffic Monitoring Session DN attribute 464, 466 Traffic Monitoring Session Source Configurations (LAN) workspace 27 Traffic Monitoring Session Source Configurations (SAN) workspace 27 Traffic Monitoring Sessions workspace 28 Transport attribute 241 Transport Type attribute 107, 122, 155 Tray attribute 71, 124, 293 troubleshooting 623 agent-specific 639 agent-specific workspaces 642 installation 635 problems and workarounds 634 remote deployment 639 report installer log 647 situations 645 Take Action commands 647 Tivoli Common Reporting 647 turn off trace 633 turn on trace 633 uninstallation 635 workspaces 642 Turbo Boost attribute 218 Tx (errors) attribute 192 Tx Bad frames (packets) attribute 300, 392 Tx Frames (packets) attribute 300, 392 Tx Stats DN attribute 118 Type attribute 106, 225, 229, 234, 240, 242, 268, 304, 331, 341, 368, 397, 424, 430, 439, 482, 484, 488, 502, 503

U

UCS Servers Health Summary attribute group 477 Unconfigured Ethernet Ports attribute 182 Under Size (errors) attribute 58, 110, 162 Undersized bad CRC (packets) attribute 281, 384 Undersized good CRC (packets) attribute 282, 384 Unicast (packets) attribute 274, 376 Unicast Packets Rx attribute 66, 118, 166, 177, 181 Unicast Packets Tx attribute 66, 118, 166, 178, 181 Up attribute 444 Update Status attribute 78, 129, 302, 394 Uplink Ethernet Port DN attribute 467 Uplink Ethernet Ports attribute 182 Uplink Ethernet Source DN attribute 468 Uplink FC Port DN attribute 469 Uplink FC Port Source DN attribute 469 Uplink FC Ports attribute 182 user ID, creating 10 user interface options 4 UUID attribute 259, 359, 482, 484, 486, 488, 493, 498 UUID Block DN attribute 250 UUID Pool DN attribute 481 UUID Prefix attribute 481 UUID Suffix attribute 251 UUID Suffix DN attribute 251

UUID Suffix Pool Configurations workspace 32 UUID Suffix Pool Details attribute group 480 UUID Suffix Pool DN attribute 250, 252

V

vCenter Configurations workspace 36 vCenter DN attribute 495 VCenter DN attribute 483, 484, 488, 493 vCenter Folder Configurations workspace 36 vCenter Folder DN attribute 493 VCenter Folder DN attribute 483, 485, 488 Vendor attribute 67, 72, 85, 91, 102, 124, 132, 137, 142, 148, 149, 153, 185, 255, 257, 259, 262, 270, 289, 293, 304, 315, 317, $323,\,331,\,335,\,341,\,343,\,356,\,360,\,363,\,371,\,397,\,407,\,411,\,415,$ 424.430 Version attribute 257 vHBA attribute 397 vHBA DN attribute 307, 400, 441, 470 views BIOS Policy Advanced Configurations workspace 33 BIOS Policy Configurations workspace 33 Blade Server Adapter Health workspace 18 Blade Server Configurations workspace 18 Blade Server CPU Details workspace 19 Blade Server DCE Interface Details workspace 19 Blade Server HBA Details workspace 19 Blade Server Health workspace 19 Blade Server Memory Array Unit Details workspace 20 Blade Server Motherboard Details workspace 20 Blade Server NIC Details workspace 20 Blade Servers workspace 20 Boot Policy Order Configurations workspace 33 Boot Policy Order workspace 33 Chassis Backplane Port Network Details workspace 21 Chassis Configuration workspace 21 Chassis Details workspace 21 Chassis Fan Module Details workspace 22 Chassis Health workspace 22 Chassis I/O Module Details workspace 22 Chassis PSU Details workspace 22 Chassis workspace 21 Cisco UCS Topology workspace 18 Cisco UCS workspace 18 ESX Host Server Health workspace 35 Fabric Extender Backplane Port Network Details workspace 23 Fabric Extender Configuration workspace 23 Fabric Extender Details workspace 23 Fabric Extender Fan Details workspace 23 Fabric Extender Health workspace 24 Fabric Extender I/O Module Details workspace 24 Fabric Extender PSU Details workspace 24 Fabric Extender workspace 23 Fabric Interconnect Configurations workspace 24 Fabric Interconnect Details workspace 25 Fabric Interconnect Health workspace 25 Fabric Interconnect Hist LAN Port Details workspace 25 Fabric Interconnect Hist SAN Port Details workspace 25 Fabric Interconnect LAN Port Channel Current Statistics workspace 25 Fabric Interconnect LAN Port Details workspace 26 Fabric Interconnect LAN Port Historical Statistics workspace 26 Fabric Interconnect PSU Details workspace 26 Fabric Interconnect SAN Port Channel Current Statistics workspace 26

views (continued) Fabric Interconnect SAN Port Details workspace 26 Fabric Interconnect SAN Port Historical Statistics workspace 27 Fabric Interconnects workspace 27 Faults workspace 28 Faults, Events and Logs Configuration workspace 28 IPMI Access Profile Policy Configurations workspace 34 iSCSI Boot Parameter Configurations workspace 34 MAC Pool Configurations workspace 32 Performance Object Status workspace 28 Port Profile Configurations workspace 35 QoS Policy Configurations workspace 34 Rack Mount Servers workspace 28 Rack-Mount Server Adapter Health workspace 29 Rack-Mount Server Configurations workspace 29 Rack-Mount Server CPU Details workspace 29 Rack-Mount Server DCE Interface Details workspace 29 Rack-Mount Server Fan Module Details workspace 30 Rack-Mount Server HBA Details workspace 30 Rack-Mount Server Health workspace 30 Rack-Mount Server Memory Array Unit Details workspace 30 Rack-Mount Server Motherboard Details workspace 31 Rack-Mount Server NIC Details workspace 31 Rack-Mount Server PSU Details workspace 31 SAN Pool Configurations workspace 32 Server and Identifier Pools workspace 32 Server Pool Configurations workspace 32 Service Profile Associated Policy Configurations workspace 34 Service Profile Health workspace 34 Service Profiles workspace 35 Threshold Policy Definition Configurations workspace 35 Threshold Policy Definitions workspace 35 Traffic Monitoring Session Source Configurations (LAN) workspace 27 Traffic Monitoring Session Source Configurations (SAN) workspace 27 Traffic Monitoring Sessions workspace 28 UUID Suffix Pool Configurations workspace 32 vCenter Configurations workspace 36 vCenter Folder Configurations workspace 36 Virtual Machine Health workspace 36 VMware workspace 36 vNIC Configurations workspace 36 vNIC/vHBA Placement Policy Configurations workspace 35 VIF DN attribute 496 Virtual Host Interface DN attribute 241 Virtual Interface DN attribute 502 Virtual Machine DN attribute 499 Virtual Machine Health workspace 36 Virtual Media Boot DN attribute 242 Virtual Slot attribute 241 Virtualization Technology (VT) attribute 218 VLAN (packets) attribute 284, 387 VLAN attribute 233 VLAN DN attribute 472, 500 VMM DN attribute 487, 496, 499, 500, 502 VMware situations 570 workspaces descriptions 35 VMware Datacenter Configuration Details attribute group 481 VMware DVS Configuration Details attribute group 483

VMware ESX Host Server Health Summary attribute group 485 VMware Folder Configuration Details attribute group 487 VMware Port Profile Configuration Summary attribute group 488 VMware Profile Client Configuration Details attribute group 490 VMware vCenter Folder Configuration Summary attribute group 492 VMware vCenter Health Summary attribute group 493 VMware VIF Configuration Details attribute group 495 VMware Virtual Machine Health Summary attribute group 497 VMware vLAN Configuration Details attribute group 499 VMware vNIC Health Summary attribute group 500 VMware vNIC Interface Configuration Details attribute group 502 VMware workspace 36 vNIC attribute 304, 331, 424 vNIC Configurations workspace 36 vNIC DN attribute 333, 426, 442, 473, 500, 502 VNIC DN attribute 497 vNIC Interface DN attribute 503 vNIC Stats DN attribute 350, 436 vNIC/vHBA Placement Policy Configurations workspace 35 vNIC/vHBA Placement Policy DN attribute 243, 439 vNIC/vHBA/iSCSI vNIC attribute 226 Voltage attribute 70, 74, 93, 102, 126, 146, 187, 189, 291, 320, 325, 337, 347, 417, 433 Voltage(V) attribute 144 VSAN DN attribute 474 VT For Directed IO attribute 218

W

Width attribute 317, 412 wikis 764 workarounds 634 Workflow Editor 581 workspaces BIOS Policy Advanced Configurations 33 BIOS Policy Configurations 33 Blade Server Adapter Health 18 Blade Server Configurations 18 Blade Server CPU Details 19 Blade Server DCE Interface Details 19 Blade Server HBA Details 19 Blade Server Health 19 Blade Server Memory Array Unit Details 20 Blade Server Motherboard Details 20 Blade Server NIC Details 20 Blade Servers 18, 20 Boot Policy Order 33 Boot Policy Order Configurations 33 Chassis 21 Chassis Backplane Port Network Details 21 Chassis Configuration 21 Chassis Details 21 Chassis Fan Module Details 22 Chassis Health 22 Chassis I/O Module Details 22 Chassis PSU Details 22 Cisco UCS 18 Cisco UCS Topology 18 descriptions 18 ESX Host Server Health 35 Fabric Extender 23

workspaces (continued) Fabric Extender Backplane Port Network Details 23 Fabric Extender Configuration 23 Fabric Extender Details 23 Fabric Extender Fan Details 23 Fabric Extender Health 24 Fabric Extender I/O Module Details 24 Fabric Extender PSU Details 24 Fabric Interconnect Configurations 24 Fabric Interconnect Details 25 Fabric Interconnect Health 25 Fabric Interconnect Hist LAN Port Details 25 Fabric Interconnect Hist SAN Port Details 25 Fabric Interconnect LAN Port Channel Current Statistics 25 Fabric Interconnect LAN Port Details 26 Fabric Interconnect LAN Port Historical Statistics 26 Fabric Interconnect PSU Details 26 Fabric Interconnect SAN Port Channel Current Statistics 26 Fabric Interconnect SAN Port Details 26 Fabric Interconnect SAN Port Historical Statistics 27 Fabric Interconnects 24, 27 Faults 28 Faults, Events and Logs Configuration 28 IPMI Access Profile Policy Configurations 34 iSCSI Boot Parameter Configurations 34 MAC Pool Configurations 32 Performance Object Status 28 Port Profile Configurations 35 predefined 15 problems and workarounds 642 QoS Policy Configurations 34 Rack Mount Servers 28 Rack-Mount Server Adapter Health 29 Rack-Mount Server Configurations 29 Rack-Mount Server CPU Details 29 Rack-Mount Server DCE Interface Details 29 Rack-Mount Server Fan Module Details 30 Rack-Mount Server HBA Details 30 Rack-Mount Server Health 30 Rack-Mount Server Memory Array Unit Details 30 Rack-Mount Server Motherboard Details 31 Rack-Mount Server NIC Details 31 Rack-Mount Server PSU Details 31 SAN Pool Configurations 32 Server and Identifier Pools 32 Server Pool Configurations 32 Service Profile Associated Policy Configurations 34 Service Profile Health 34 Service Profiles 33, 35 Threshold Policy Definition Configurations 35 Threshold Policy Definitions 35 Traffic Monitoring Session Source Configurations (LAN) 27 Traffic Monitoring Session Source Configurations (SAN) 27 Traffic Monitoring Sessions 28 UUID Suffix Pool Configurations 32 vCenter Configurations 36 vCenter Folder Configurations 36 Virtual Machine Health 36 VMware 35, 36 vNIC Configurations 36 vNIC/vHBA Placement Policy Configurations 35 Workspaces additional information 15

Workspaces (continued) overview 15
WWN Initiator Block Pool DN attribute 253
WWN Pool DN attribute 245, 253
WWNN attribute 305, 307, 397, 400
WWPN attribute 305, 307, 398, 400

Χ

Xmit (errors) attribute58, 110, 162Xmit Pause attribute63, 115, 170



Printed in USA

SC14-7488-03

