IBM Tivoli NetView for z/OS
Version 6 Release 2 Modification 1

Installation: Migration Guide

GC27-2854-05

Note

Before using this information and the product it supports, read the information in “Notices” on page 221.

This edition applies to version 6, release 2, modification 1 of IBM Tivoli NetView for z/OS (product number 5697-NV6) and to all subsequent versions, releases, and modifications until otherwise indicated in new editions.

This edition replaces GC27-2854-04.

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About this publication

The IBM® Tivoli® NetView® for z/OS® product provides advanced capabilities that you can use to maintain the highest degree of availability of your complex, multi-platform, multi-vendor networks and systems from a single point of control. This publication, the *IBM Tivoli NetView for z/OS Installation: Migration Guide*, provides information about migrating the base functions from a previous release of the NetView program. It also describes procedures to migrate from the NetView Graphic Monitoring Facility (NGMF) to the NetView management console and to migrate from the unattended feature, the procedural feature, and NetView System Services.

Intended audience

This publication is for system programmers who migrate the NetView program from a previous release to the current release.

Publications

This section lists publications in the IBM Tivoli NetView for z/OS library and related documents. It also describes how to access Tivoli publications online and how to order Tivoli publications.

IBM Tivoli NetView for z/OS library

The following documents are available in the IBM Tivoli NetView for z/OS library:

- *Administration Reference*, SC27-2869, describes the NetView program definition statements required for system administration.
- *Application Programmer's Guide*, SC27-2870, describes the NetView program-to-program interface (PPI) and how to use the NetView application programming interfaces (APIs).
- *Automation Guide*, SC27-2846, describes how to use automated operations to improve system and network efficiency and operator productivity.
- *Command Reference Volume 1 (A-N)*, SC27-2847, and *Command Reference Volume 2 (O-Z)*, SC27-2848, describe the NetView commands, which can be used for network and system operation and in command lists and command procedures.
- *Customization Guide*, SC27-2849, describes how to customize the NetView product and points to sources of related information.
- *Data Model Reference*, SC27-2850, provides information about the Graphic Monitor Facility host subsystem (GMFHS), SNA topology manager, and MultiSystem Manager data models.
- *Installation: Configuring Additional Components*, GC27-2851, describes how to configure NetView functions beyond the base functions.
- *Installation: Configuring Graphical Components*, GC27-2852, describes how to install and configure the NetView graphics components.
- *Installation: Configuring the NetView Enterprise Management Agent*, GC27-2853, describes how to install and configure the NetView for z/OS Enterprise Management Agent.
- *Installation: Getting Started*, GI11-9443, describes how to install and configure the base NetView program.
- *Installation: Migration Guide*, GC27-2854, describes the new functions that are provided by the current release of the NetView product and the migration of the base functions from a previous release.
- *IP Management*, SC27-2855, describes how to use the NetView product to manage IP networks.

- *Messages and Codes Volume 1 (AAU-DSI)*, GC27-2856, and *Messages and Codes Volume 2 (DUI-IHS)*, GC27-2857, describe the messages for the NetView product, the NetView abend codes, the sense codes that are included in NetView messages, and generic alert code points.
- *Programming: Assembler*, SC27-2858, describes how to write exit routines, command processors, and subtasks for the NetView product using assembler language.
- *Programming: Pipes*, SC27-2859, describes how to use the NetView pipelines to customize a NetView installation.
- *Programming: PL/I and C*, SC27-2860, describes how to write command processors and installation exit routines for the NetView product using PL/I or C.
- *Programming: REXX and the NetView Command List Language*, SC27-2861, describes how to write command lists for the NetView product using the Restructured Extended Executor language (REXX) or the NetView command list language.
- *Resource Object Data Manager and GMFHS Programmer's Guide*, SC27-2862, describes the NetView Resource Object Data Manager (RODM), including how to define your non-SNA network to RODM and use RODM for network automation and for application programming.
- *Security Reference*, SC27-2863, describes how to implement authorization checking for the NetView environment.
- *SNA Topology Manager Implementation Guide*, SC27-2864, describes planning for and implementing the NetView SNA topology manager, which can be used to manage subarea, Advanced Peer-to-Peer Networking, and TN3270 resources.
- *Troubleshooting Guide*, GC27-2865, provides information about documenting, diagnosing, and solving problems that occur in the NetView product.
- *Tuning Guide*, SC27-2874, provides tuning information to help achieve certain performance goals for the NetView product and the network environment.
- *User's Guide: Automated Operations Network*, SC27-2866, describes how to use the NetView Automated Operations Network (AON) component, which provides event-driven network automation, to improve system and network efficiency. It also describes how to tailor and extend the automated operations capabilities of the AON component.
- *User's Guide: NetView*, SC27-2867, describes how to use the NetView product to manage complex, multivendor networks and systems from a single point.
- *User's Guide: NetView Enterprise Management Agent*, SC27-2876, describes how to use the NetView Enterprise Management Agent.
- *User's Guide: NetView Management Console*, SC27-2868, provides information about the NetView management console interface of the NetView product.
- *Licensed Program Specifications*, GC31-8848, provides the license information for the NetView product.
- *Program Directory for IBM Tivoli NetView for z/OS US English*, GI11-9444, contains information about the material and procedures that are associated with installing the IBM Tivoli NetView for z/OS product.
- *Program Directory for IBM Tivoli NetView for z/OS Japanese*, GI11-9445, contains information about the material and procedures that are associated with installing the IBM Tivoli NetView for z/OS product.
- *Program Directory for IBM Tivoli NetView for z/OS Enterprise Management Agent*, GI11-9446, contains information about the material and procedures that are associated with installing the IBM Tivoli NetView for z/OS Enterprise Management Agent.

Related publications

The following publications provide information that is common to agents that work with the IBM Tivoli Monitoring product:

- *Quick Start Guide*, GI11-8918, summarizes the installation and setup of an OMEGAMON® XE monitoring agent on z/OS.

- *Common Planning and Configuration Guide*, SC23-9734, provides instructions for planning and configuration tasks that are common to the Tivoli Management Services components on z/OS and to the OMEGAMON XE monitoring agents on z/OS.
- *Upgrade Guide*, SC23-9745, provides instructions for complete and staged upgrades of the OMEGAMON XE V4.2.0 products.
- *End-to-End Response Time Feature Topic*, SC27-2303, provides instructions and topic information for the End-to-End Response Time Feature, which supplies response time data to several OMEGAMON XE products.
- *Reports for Tivoli Common Reporting*, SC27-2304, explains how to use the Tivoli Common Reporting tool to create reports from data that is displayed in the Tivoli Enterprise Portal and stored in the Tivoli Data Warehouse database.

You can find additional product information on the NetView for z/OS web site at http://www.ibm.com/software/tivoli/products/netview-zos/.

For information about the NetView Bridge function, see *Tivoli NetView for OS/390 Bridge Implementation*, SC31-8238-03 (available only in the V1R4 library).

Accessing terminology online

The IBM Terminology web site consolidates the terminology from IBM product libraries in one convenient location. You can access the Terminology web site at http://www.ibm.com/software/globalization/terminology/.

For NetView for z/OS terms and definitions, see the IBM Terminology web site. The following terms are used in this library:

NetView
For the following products:

- Tivoli NetView for z/OS version 6 release 2 modification 1
- Tivoli NetView for z/OS version 6 release 2
- Tivoli NetView for z/OS version 6 release 1
- Tivoli NetView for z/OS version 5 release 4
- Tivoli NetView for z/OS version 5 release 3
- Tivoli NetView for OS/390® version 1 release 4
- NetView releases that are no longer supported

CNMCMD
For the CNMCMD member and the members that are included in it using the %INCLUDE statement

CNMSTYLE
For the CNMSTYLE member and the members that are included in it using the %INCLUDE statement

DSIOPF
For the DSIOPF member and the members that are included in it using the %INCLUDE statement

PARMLIB
For SYS1.PARMLIB and other data sets in the concatenation sequence

MVS™
For z/OS operating systems

MVS element
For the base control program (BCP) element of the z/OS operating system

VTAM®
For Communications Server - SNA Services

IBM Tivoli Network Manager
For either of these products:

- IBM Tivoli Network Manager

- IBM Tivoli OMNIbus and Network Manager

IBM Tivoli Netcool®/OMNIbus
For either of these products:

- IBM Tivoli Netcool/OMNIbus
- IBM Tivoli OMNIbus and Network Manager

GDPS® Metro HyperSwap® Manager
For all the NetView for z/OS V6.2.1 books, NetView Monitoring for GDPS V6.2.1 book, and IBM Tivoli System Automation for GDPS/PPRC HyperSwap Manager with NetView book.

Note: The former name of **GDPS Metro HyperSwap Manager** is **GDPS/PPRC HyperSwap Manager**.

GDPS Continuous Availability
For all the NetView for z/OS V6.2.1 books, NetView Monitoring for GDPS V6.2.1 book, and IBM Tivoli System Automation for GDPS/PPRC HyperSwap Manager with NetView book.

Note: The former name of **GDPS Continuous Availability** is **GDPS/Active-Active**.

Unless otherwise indicated, topics to programs indicate the latest version and release of the programs. If only a version is indicated, the topic is to all releases within that version.

When a topic is made about using a personal computer or workstation, any programmable workstation can be used.

Using NetView for z/OS online help

The following types of NetView for z/OS mainframe online help are available, depending on your installation and configuration:

- General help and component information
- Command help
- Message help
- Sense code information
- Recommended actions

Accessing publications online

IBM posts publications for this and all other Tivoli products, as they become available and whenever they are updated, to the Tivoli Documentation Central website at https://www.ibm.com/developerworks/mydeveloperworks/wikis/home/wiki/Tivoli%20Documentation%20Central

Note: If you print PDF documents on other than letter-sized paper, set the option in the **File > Print** window that enables Adobe Reader to print letter-sized pages on your local paper.

Ordering publications

You can order many Tivoli publications online at http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss

You can also order by telephone by calling one of these numbers:

- In the United States: 800-879-2755
- In Canada: 800-426-4968

In other countries, contact your software account representative to order Tivoli publications. To locate the telephone number of your local representative, perform the following steps:

1. Go to http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss.
2. Select your country from the list and click **Go**.
3. Click **About this site** to see an information page that includes the telephone number of your local representative.

Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully. Standard shortcut and accelerator keys are used by the product and are documented by the operating system. Refer to the documentation provided by your operating system for more information.

For additional information, see the Accessibility appendix in the *User's Guide: NetView*.

Service Management Connect

Connect, learn, and share with Service Management professionals: product support technical experts who provide their perspectives and expertise.

Access Service Management Connect at http://www.ibm.com/developerworks/servicemanagement/z/. Use Service Management Connect in the following ways:

- Become involved with transparent development, an ongoing, open engagement between other users and IBM developers of Tivoli products. You can access early designs, sprint demonstrations, product roadmaps, and prerelease code.
- Connect one-on-one with the experts to collaborate and network about Tivoli and the NetView community.
- Read blogs to benefit from the expertise and experience of others.
- Use wikis and forums to collaborate with the broader user community.

Tivoli technical training

For Tivoli technical training information, refer to the following IBM Tivoli Education website at http://www.ibm.com/software/tivoli/education.

Tivoli user groups

Tivoli user groups are independent, user-run membership organizations that provide Tivoli users with information to assist them in the implementation of Tivoli Software solutions. Through these groups, members can share information and learn from the knowledge and experience of other Tivoli users.

Downloads

Clients and agents, and several free NetView applications can be downloaded from the NetView for z/OS support web site:

http://www.ibm.com/software/sysmgmt/products/support/IBMTivoliNetViewforzOS.html

After you open the Support Portal page, perform the following steps:

1. Scroll down to the **Downloads** section and click the **view all** link.
2. On the Downloads for NetView for z/OS page, check the **Tool/Utility** box in the **Filter by topic** section on the left side.
3. Download the items based on your requirements.

These applications can help with the following tasks:

- Migrating customization parameters and initialization statements from earlier releases to the CNMSTUSR member and command definitions from earlier releases to the CNMCMDU member.

- Getting statistics for your automation table and merging the statistics with a listing of the automation table
- Displaying the status of a job entry subsystem (JES) job or canceling a specified JES job
- Sending alerts to the NetView program using the program-to-program interface (PPI)
- Sending and receiving MVS commands using the PPI
- Sending Time Sharing Option (TSO) commands and receiving responses

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
Please follow the instructions located in the support guide entry: https://www.ibm.com/support/home/pages/support-guide/?product=4429363.

Troubleshooting information
For more information about resolving problems with the NetView for z/OS product, see the *IBM Tivoli NetView for z/OS Troubleshooting Guide*. You can also discuss technical issues about the NetView for z/OS product through the NetView user group located at https://groups.io/g/NetView. This user group is for NetView for z/OS customers only, and registration is required. This forum is also monitored by interested parties within IBM who answer questions and provide guidance about the NetView product. When a problem with the code is found, you are asked to open an official case to obtain resolution.

Conventions used in this publication

This section describes the conventions that are used in this publication.

Revision codes

This publication uses the following revision codes, which are located in the left margins:

|
The pipe character | is used to indicate changes made for the December, 2014 modifications to the document.

Typeface conventions

This publication uses the following typeface conventions:

Bold

- Lowercase commands and mixed case commands that are otherwise difficult to distinguish from surrounding text
- Interface controls (check boxes, push buttons, radio buttons, spin buttons, fields, folders, icons, list boxes, items inside list boxes, multicolumn lists, containers, menu choices, menu names, tabs, property sheets), labels (such as **Tip:**, and **Operating system considerations**:)
- Keywords and parameters in text

Italic

- Citations (examples: titles of publications, diskettes, and CDs
- Words defined in text (example: a nonswitched line is called a *point-to-point line*)
- Emphasis of words and letters (words as words example: "Use the word *that* to introduce a restrictive clause."; letters as letters example: "The LUN address must start with the letter *L*.")
- New terms in text (except in a definition list): a *view* is a frame in a workspace that contains data.

- Variables and values you must provide: ... where *myname* represents...

Monospace

- Examples and code examples
- File names, programming keywords, and other elements that are difficult to distinguish from surrounding text
- Message text and prompts addressed to the user
- Text that the user must type
- Values for arguments or command options

Operating system-dependent variables and paths

For workstation components, this publication uses the UNIX convention for specifying environment variables and for directory notation.

When using the Windows command line, replace **$***variable* with **%***variable***%** for environment variables and replace each forward slash (**/**) with a backslash (****) in directory paths. The names of environment variables are not always the same in the Windows and UNIX environments. For example, %TEMP% in Windows environments is equivalent to $TMPDIR in UNIX environments.

Note: If you are using the bash shell on a Windows system, you can use the UNIX conventions.

Syntax diagrams

The following syntax elements are shown in syntax diagrams. Read syntax diagrams from left-to-right, top-to-bottom, following the horizontal line (the main path).

- "Symbols" on page xix
- "Parameters" on page xix
- "Punctuation and parentheses" on page xx
- "Abbreviations" on page xx

For examples of syntax, see "Syntax examples" on page xx.

Symbols

The following symbols are used in syntax diagrams:

Marks the beginning of the command syntax.

Marks the end of the command syntax.

Indicates that the command syntax is continued on the next line.

Indicates that a statement is continued from the previous line.

Marks the beginning and end of a fragment or part of the command syntax.

Parameters

The following types of parameters are used in syntax diagrams:

Required
Required parameters are shown on the main path.

Optional
Optional parameters are shown below the main path.

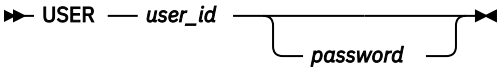
Default
Default parameters are shown above the main path. In parameter descriptions, default parameters are underlined.

Syntax diagrams do not rely on highlighting, brackets, or braces. In syntax diagrams, the position of the elements relative to the main syntax line indicates whether an element is required, optional, or the default value.

When you issue a command, spaces are required between the parameters unless a different separator, such as a comma, is specified in the syntax.

Parameters are classified as keywords or variables. Keywords are shown in uppercase letters. Variables, which represent names or values that you supply, are shown in lowercase letters and are either italicized or, in NetView help, displayed in a differentiating color.

In the following example, the USER command is a keyword, the *user_id* parameter is a required variable, and the *password* parameter is an optional variable.



Punctuation and parentheses

You must include all punctuation that is shown in the syntax diagram, such as colons, semicolons, commas, minus signs, and both single and double quotation marks.

When an operand can have more than one value, the values are typically enclosed in parentheses and separated by commas. For a single value, the parentheses typically can be omitted. For more information, see “Multiple operands or values” on page xxi.

If a command requires positional commas to separate keywords and variables, the commas are shown before the keywords or variables.

When examples of commands are shown, commas are also used to indicate the absence of a positional operand. For example, the second comma indicates that an optional operand is not being used:

```
COMMAND_NAME opt_variable_1,,opt_variable_3
```

You do not need to specify the trailing positional commas. Trailing positional and non-positional commas either are ignored or cause a command to be rejected. Restrictions for each command state whether trailing commas cause the command to be rejected.

Abbreviations

Command and keyword abbreviations are listed in synonym tables after each command description.

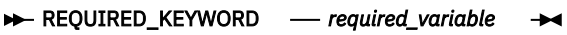
Syntax examples

The following examples show the different uses of syntax elements:

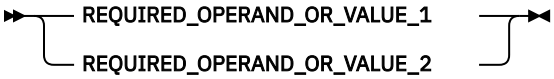
- “Required syntax elements” on page xx
- “Optional syntax elements” on page xxi
- “Default keywords and values” on page xxi
- “Multiple operands or values” on page xxi
- “Syntax that is longer than one line” on page xxii
- “Syntax fragments” on page xxii

Required syntax elements

Required keywords and variables are shown on the main syntax line. You must code required keywords and variables.



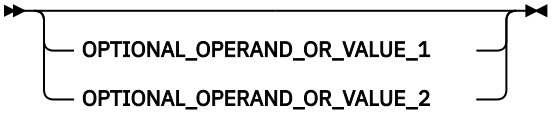
A required choice (two or more items) is shown in a vertical stack on the main path. The items are shown in alphanumeric order.



Optional syntax elements

Optional keywords and variables are shown below the main syntax line. You can choose not to code optional keywords and variables.

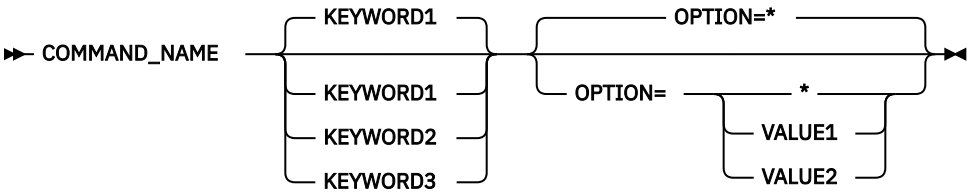
A required choice (two or more items) is shown in a vertical stack below the main path. The items are shown in alphanumeric order.



Default keywords and values

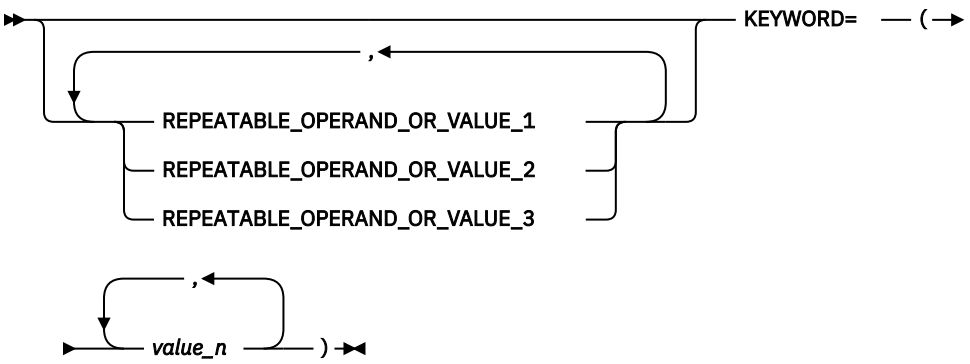
Default keywords and values are shown above the main syntax line in one of the following ways:

- A default keyword is shown only above the main syntax line. You can specify this keyword or allow it to default. The following syntax example shows the default keyword KEYWORD1 above the main syntax line and the rest of the optional keywords below the main syntax line.
- If an operand has a default value, the operand is shown both above and below the main syntax line. A value below the main syntax line indicates that if you specify the operand, you must also specify either the default value or another value shown. If you do not specify the operand, the default value above the main syntax line is used. The following syntax example shows the default values for operand OPTION=* above and below the main syntax line.



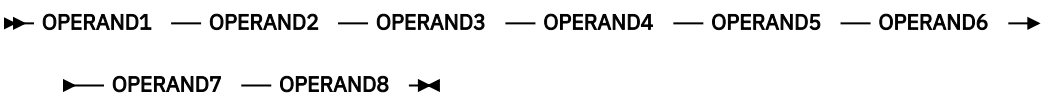
Multiple operands or values

An arrow returning to the left above a group of operands or values indicates that more than one can be selected or that a single one can be repeated.



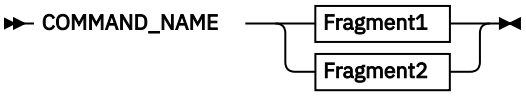
Syntax that is longer than one line

If a diagram is longer than one line, each line that is to be continued ends with a single arrowhead and the following line begins with a single arrowhead.



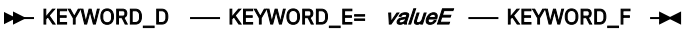
Syntax fragments

Some syntax diagrams contain syntax fragments, which are used for lengthy, complex, or repeated sections of syntax. Syntax fragments follow the main diagram. Each syntax fragment name is mixed case and is shown in the main diagram and in the heading of the fragment. The following syntax example shows a syntax diagram with two fragments that are identified as Fragment1 and Fragment2.



Fragment1

Fragment2



Chapter 1. New and Changed Functions in the NetView V6R2M1 Program

Whether you have a small installation or you are managing a large, distributed enterprise, the NetView program provides efficient systems and network management capability on any platform. The new and changed functions in this release are described in the following topics:

- "Automation Enhancements" on page 1
- "Configuration Enhancements" on page 2
- "Security Enhancements" on page 3
- "Additional Enhancements" on page 3
- "IP Management" on page 4
- "Removed Functions" on page 4
- "Library Changes" on page 5

Automation Enhancements

Table 1. Automation Enhancements

Function	Description	Additional information
CNM493I Enhancements (OA48181)	The CNM493I message has been enhanced to include the Label or Group identifier if it is specified on the automation table statement. If there is no label or group identifier, one of the following will be displayed: • **(AUTOMATED MSU)** if an MSU was automated • The message ID of the automated message following MSGID= • **(NO MSGID)** if the other values are not applicable	*IBM Tivoli NetView for z/OS Automation Guide*
Message Revision Table, Command Revision Table, and PIPE EDIT (OA52000 and OA52211)	The following enhancements have been made: • Allow blanks and commas to be removed from commands before comparing for a match in the Command Revision Table. • Allow characters to be removed from strings in EDIT specifications. • Support hexadecimal strings being specified in UPON statements in Message and Command Revision Tables. • Support PREFIX values that have lengths other than 3.	*IBM Tivoli NetView for z/OS Automation Guide*

Table 1. Automation Enhancements (continued)		
Function	**Description**	**Additional information**
Message Revision Table (MRT) Message Flood support (OA52835 and OA52837)	An `MRT UPON FLOOD` condition is added to check for messages that have been acted upon by z/OS Message Flood Automation. The following PIPE EDIT orders are added: • **FLOODACT**: input order that indicates whether z/OS Message Flood Automation has acted upon the message • **NOT**: conversion order to negate an indicator	*IBM Tivoli NetView for z/OS Automation Guide*

Configuration Enhancements

Table 2. Configuration Enhancements		
Function	**Description**	**Additional information**
Conditional %INCLUDE	The %INCLUDE statement is enhanced to allow a member or file to be included when the specified tower or subtower is enabled. The conditional %INCLUDE statement can be specified in any file that supports the %INCLUDE statement.	*IBM Tivoli NetView for z/OS Administration Reference*
MODIFY.TOWER	The MODIFY.TOWER statement in CNMSTYLE provides a method to change initial NetView TOWER statements during early NetView initialization.	*IBM Tivoli NetView for z/OS Administration Reference*
CNMSTYLE Report Generator	The CNMSTYLE Report Generator has been restructured to support CNMSTYLE configuration statements for the NetView Monitoring for GDPS product.	*IBM Tivoli NetView for z/OS Installation: Getting Started*
NetView for z/OS Enterprise Management Agent subnode name (OA46829 and OA47013)	The subnode name in the Tivoli Enterprise Portal (portal) Navigator defaults to the NetView domain name when running the NetView for z/OS Enterprise Management Agent (NetView Agent). A CNMSTYLE statement, NACMD.SUBNODE, provides user-defined subnode name capability.	*IBM Tivoli NetView for z/OS Administration Reference*
Canzlog Dynamic Data Space (OA55071 and OA55074)	Canzlog can now be configured to start with a small data space size (128M) for the data space that is associated with the Master Scheduler address space. The data space will stay this size as long as automation keeps up. If automation cannot keep up, the data space size will dynamically increase by 8 M at a time until it reaches the maximum value of 512M or 2G.	*IBM Tivoli NetView for z/OS Installation: Getting Started*

Security Enhancements

Table 3. Security Enhancements

Function	Description	Additional information
CNMSCATU (OA48179)	The CNMSCAT2 command authorization table sample includes the new CNMSCATU member, which is intended for user modification.	*IBM Tivoli NetView for z/OS Security Reference*

Additional Enhancements

Table 4. Additional Enhancements

Function	Description	Additional information
Global variables (OA47872 and OA47874)	The following enhancements have been made to the common and task global variable support: • The maximum length of the global variable name has been increased to 250 characters. • The maximum length of the global variable value has been increased to 31000 characters.	*IBM Tivoli NetView for z/OS Programming: REXX and the NetView Command List Language*
DBAUTO (OA48180)	Serviceability enhancements have been made to display the failing sub-command when the DBAUTO command fails.	*IBM Tivoli NetView for z/OS Command Reference Volume 1 (A-N)*
Canzlog Archive (OA48626)	A new DEFAULTS parameter, **CzTopAge**, is introduced, which allows the setting of a time period in days of how far back NetView will access Canzlog historical data in archives for BROWSE operations. When **CzTopAge** is set, only the Canzlog archive data sets containing data whose age is no older than the specified number of days are accessed by default.	*IBM Tivoli NetView for z/OS Command Reference Volume 1 (A-N)*
NetView Initialization (OA51973 and OA51974)	The number of messages written to the z/OS console and to syslog during NetView initialization have been reduced. Message BNH191E Policy autotask is different from AON autoTask. This configuration is not supported.	*IBM Tivoli NetView for z/OS Messages and Codes Volume 1 (AAU-DSI)*
Canzlog Archive Global Variables (OA52165)	Documentation describes the global variables that result from CNMSTYLE ARCHIVE. statements.	*IBM Tivoli NetView for z/OS Administration Reference*
APSERV (OA52212 and OA52213)	The **APSERV** command interface has been enhanced to remove the MVS prefix restriction and to support NetView commands.	*IBM Tivoli NetView for z/OS Application Programmer's Guide*
Command Statistics (OA55075 and OA55076)	Utilization statistics, such as CPU time, storage, and I/O operations, are provided at the command level.	*IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* *IBM Tivoli NetView for z/OS Administration Reference*

Table 4. Additional Enhancements (continued)		
Function	**Description**	**Additional information**
Canzlog Print (OA55078 and OA55077)	The **PRINT** command has been provided to print Canzlog messages. It can be issued in the following methods: • NETVIEW operator's console • BROWSE window • CANZLOG panel • NVINFO	*IBM Tivoli NetView for z/OS Command Reference Volume 2 (O-Z)* *IBM Tivoli NetView for z/OS Administration Reference*

IP Management

Table 5. IP Management Enhancements		
Function	**Description**	**Additional information**
SNMP command	Encryption using Advanced Encryption Standard (AES) can be used for SNMPv3 requests sent and received using the SNMP command.[1]	SNMP (NCCF; CNMESNMP) command in the NetView online help or *NetView for z/OS Command Reference Volume 2 (O-Z)*
Inbound SNMP trap processing	An SNMP trap automation task can decrypt SNMP version 3 (SNMPv3) traps that were encrypted using AES.[1]	SNMP Trap Automation in the *NetView for z/OS Automation Guide*
Discovery Manager	Support has been added for OSA-Express®5S	*NetView for z/OS Installation: Configuring Additional Components*

[1] To use AES encryption, z/OS Cryptographic Services Integrated Cryptographic Service Facility (ICSF) must be configured and running on the z/OS host on which NetView is also running.

Removed Functions

Several functions were removed from the NetView product for v6.2.1.

Table 6. Removed Functions		
Function	**Description**	**Additional information**
GDPS Active/Active Continuous Availability solution	Functionality in support of the GDPS Active/Active Continuous Availability solution has been removed from the NetView for z/OS product and is available in the NetView Monitoring for GDPS product.	IBM NetView Monitoring for GDPS *Configuring and Using the GDPS Active/Active Continuous Availability Solution*
MVS Command Management	This function is superseded by the Command Revision Table function.	"Command Revision Table" section in the *Automation Guide*
Visual BLDVIEWS (VBV)	This function is superseded by the RODM Collection Manager function in the NetView Management Console.	"RODM Collection Manager" section in *Installation: Configuring Graphical Components*

Table 6. Removed Functions (continued)		
Function	**Description**	**Additional information**
Common Event Infrastructure Service	There are several alternatives to this function, including the use of Event Integration Facility (EIF) events, SNMP traps, and system messages.	"Event/Automation Service" section in the *Automation Guide*
4700 support facility (TARA)	This function has no replacement. The hardware it supported is no longer manufactured and is out of support.	

Library Changes

Table 7. Library Changes		
Publication	**Description**	**Additional information**
NetView for z/OS *Installation: Configuring the GDPS Active/ Active Continuous Availability Solution*	This publication has been removed from the NetView library. Additionally, information about NetView support for the GDPS Active/Active Continuous Availability solution has been removed from the library.	See *Configuring and Using the GDPS Active/Active Continuous Availability Solution* for information about the IBM Tivoli NetView Monitoring for GDPS offering and migration information.
IBM Tivoli NetView for z/OS Installation: Configuring the NetView Enterprise Management Agent	"Appendix E. Configuring the NetView agent using the configuration tool" has been removed.	
IBM Tivoli NetView for z/OS Installation: Migration Guide	Information on migrating from NetView V5R1 and NetView V5R2 has been removed from the library.	For information about migrating from the NetView V5R1 or NetView V5R2 release, see the *Installation: Migration Guide*, GC27-2854-02, available in the NetView for z/OS V6R2 library.
General library changes	Information for the following outdated functions has been removed: • 4700 support facility (TARA) • Common Event Infrastructure Service • MVS Command Management • Visual BLDVIEWS (VBV)	For information on replacement functions and which commands, command lists, messages, and samples were deleted because the function were removed, see the following sections: • “Removed Functions” on page 4 • Appendix D, “Changes from Tivoli NetView for z/OS V6R2 to Tivoli NetView for z/OS Version V6R2M1,” on page 193

Chapter 2. Preparing for Migration

This book provides information for migration to the NetView v6.2.1 program. Before beginning your installation, read the NetView program directory.

Other sources of information

- For detailed information about the steps required to install the NetView program, refer to *IBM Tivoli NetView for z/OS Installation: Getting Started*.
- If you are installing the NetView program on the same LPAR as an existing NetView program, see "Running Multiple NetView Programs in the Same LPAR" in *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* while completing the steps in this book.

If you are migrating from a release before Tivoli NetView for OS/390 V1R4, install as a new user. Refer to *IBM Tivoli NetView for z/OS Installation: Getting Started*.

Overview

Migration consists of:

1. Installing the NetView program from distribution media using SMP/E with the help of the NetView program directory
2. Making necessary additional preparations to your z/OS system for the current NetView release
3. Modifying your existing NetView installation to incorporate changes that were made to the current NetView release
4. Verifying the migration by testing the basic functions of the NetView program

This book is designed to guide you through the migration and verification of the NetView program in a minimum amount of time.

Hardware and Software Requirements

Refer to the NetView program directory for detailed information and an inclusive list of the hardware and software requirements for installation.

Installation Package

For detailed information about the installation package contents, refer to the NetView program directory.

Workstation-based NetView code is provided in two formats:

- DVD
- Tivoli website

The Tivoli NetView for z/OS Enterprise Management Agent (NetView agent) was available as a component of NetView for z/OS V5R3. Starting with NetView for z/OS V5R4, it is packaged as a separate FMID that is SMP/E installable. For more information about installing the NetView agent, see *IBM Tivoli NetView for z/OS Installation: Configuring the NetView Enterprise Management Agent*.

The GDPS Active/Active Continuous Availability solution functions were available as a component in the NetView for z/OS V6R1 and V6R2 products. The NetView V6R2 product required the NetView Monitoring for GDPS V6R2 product to authorize using the GDPS Active/Active Continuous Availability solution functions. Starting with NetView for z/OS v6.2.1, the GDPS Active/Active Continuous Availability solution functions moved from the NetView V6R2 product to the NetView Monitoring for GDPS v6.2.1 product.

Installing the New NetView Release While Running an Earlier NetView Release

If you want to keep running your installed version of the NetView program as your production system while you plan for and migrate to v6.2.1, the following actions can facilitate your migration:

- If you ordered this package as a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3), you can install the NetView V6R2M1 files into separate SMP global and target zones from those used for your existing NetView release.
- Unless you plan to run two full NetView programs concurrently, it is a good idea to delete the old NetView release when your migration is completed.
- The modules that are copied into SCNMLPA1 during NetView V6R2M1 installation are backward-compatible with the following versions of the NetView product:
  - Tivoli NetView for z/OS Version 6 Release 2 (requires PTF UA97461)
  - Tivoli NetView for z/OS Version 6 Release 1 (requires PTF UA70457 and UA97460)

  The modules in the SCNMLPA1 data set are backward-compatible with previous NetView releases. Therefore, it is recommended to run with the copy of these modules from the current release to keep the SCNMLPA1 data set up-to-date. Delete the old copy of the SCNMLPA1 data set and place the NetView V6R2M1 copy of the SCNMLPA1 data set in the LPALST member. The change to the LPALST member takes effect the next time your z/OS system is restarted.
- The ISTIECCE load module in NETVIEW.V6R2M1.SCNMLNK1 is not compatible with the ISTIECCE module from NetView V1R4. Be sure that the correct level of this module is included in the VTAMLIB DD statement in your VTAM start procedure. Using an earlier version of the ISTIECCE module or not having this module in the correct library can result in status monitor initialization failure or other unpredictable results.
- Decide how you are going to access the LNKLST modules for the previous (existing) NetView release while migrating to the NetView V6R2M1 program. You can use the STEPLIB data set concatenation to access the NetView LNKLST libraries for both releases while you are migrating to the new release, or you can use a PROG*xx* PARMLIB member to access the NetView V6R2M1 libraries while using the STEPLIB data set concatenation for the libraries for the NetView program from which you are migrating.

Support is provided for running two releases of the NetView program, NetView management console, and RODM on one production system. For more information about running two NetView releases on the same system, see "Running Multiple NetView Programs in the Same LPAR" in *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

Migration Process

Follow the steps in the process outlined in subsequent sections to migrate to the current release of the NetView program. These steps are a high-level overview of the installation process used for new users, and serve as a checklist to ensure that the environment is prepared and that the NetView program is installed properly. The environments that are prepared for the current NetView release include:

- MVS system
- UNIX System Services

After preparing these environments for the NetView program, the migration steps are grouped in the following way:

- Base NetView functions
- Graphical NetView functions
- Advanced NetView configuration

Before you begin the migration process, make a backup copy of your NetView libraries.

Data Set Consolidation

The AON, Event/Automation Service (E/AS), and RODM data sets from previous releases were consolidated into NetView data sets.

Table 8. Data Set Consolidation

Release When Consolidated	Previous Data Set Name	NetView V6R2M1 Data Set Name
V5R1	AEKGCAS1	ACNMSAMP
	AEKGLUTB	ACNMSAMP
	AEKGMOD1	ACNMLINK
	AEKGPNL1	ACNMPNL1
	AEKGSMP1	ACNMSAMP
	AEZLCLST	ACNMCLST
	AEZLINST	ACNMSAMP
	AEZLLINK	ACNMLINK
	AEZLPNLU	ACNMPNL1
	AEZLSAMP	ACNMSAMP
	SEKGCAS1	CNMSAMP
	SEKGLNK1	SCNMLNKN
	SEKGLUTB	CNMSAMP
	SEKGMOD1	CNMLINK
	SEKGMOD2	CNMLINK
	SEKGPNL1	CNMPNL1
	SEKGSMP1	CNMSAMP
	SEZLCLST	CNMCLST
	SEZLINST	CNMSAMP
	SEZLLINK	CNMLINK
	SEZLPNLU	CNMPNL1
	SEZLSAMP	CNMSAMP
V5R4	ACNMUXLK	ACNMLINK
	ACNMUXMS	ACNMSAMP or ADUIMSG1
	SCNMUXLK	CNMLINK
	SCNMUXMS	CNMSAMP or SDUIMSG1

Note:

1. For V5R1, SCNMLNKN is a new data set name.
2. RODM data sets AEKGLANG and SEKGLANG were not consolidated.
3. E/AS data sets ACNMUXCL and SCNMUXCL were not consolidated.

Preparing the MVS System

The following steps are required to update MVS for the NetView V6R2M1 program. These are the same basic steps required for a new installation. For additional information about these steps, refer to *IBM Tivoli NetView for z/OS Installation: Getting Started*.

Refer to Table 9 on page 10 to update members in SYS1.PARMLIB.

Table 9. SYS1.PARMLIB Members

Member Name	Suggested Updates
COUPLExx	Add the following DATA statement to identify the automatic restart manager (ARM) couple data to XCF: `DATA TYPE(ARM) PCOUPLE(primary-dsname) ACOUPLE(alternate-dsname)` Initialize the primary and alternate ARM couple data sets after you create them. If you are adding this system to a sysplex to enable the NetView program to use XCF Services, see *z/OS MVS Setting Up a Sysplex* .
PROGxx or IEAAPFxx	If these are not already authorized, authorize all the libraries included in the STEPLIB, VTAMLIB, and NCPLOAD concatenations in your VTAM and NetView start procedures: • VTAM start procedure: CNMSJ008 (CNMNET) • NetView start procedure: CNMSJ009 (CNMPROC) • NetView subsystem interface (SSI) start procedure: CNMSJ010 (CNMPSSI) • RODM start procedure: EKGXRODM • GMFHS start procedure: CNMSJH10 (CNMGMFHS) • Event/Automation Service start procedure: IHSAEVNT Verify that the following NetView libraries are authorized: • NETVIEW.V6R2M1.SCNMLNK1 • NETVIEW.V6R2M1.SCNMLPA1 • NETVIEW.V6R2M1.CNMLINK • NETVIEW.V6R2M1.SCNMLNKN • NETVIEW.V6R2M1.SAQNLINK If you are installing the Japanese NetView V6R2M1 program, authorize the SCNMMJPN data set. This data set is in the STEPLIB of CNMPROC. If you plan to use the Tivoli NetView for z/OS Enterprise Management Agent, authorize the following additional libraries: • RKANMOD • RKANMODL • RKANMODU • Any runtime libraries that are concatenated in the STEPLIB DDNAME and in the RKANMODL DDNAME of the CANSNA and CANSDSST started tasks

Table 9. SYS1.PARMLIB Members (continued)

Member Name	Suggested Updates
PROGxx or IEAAPFxx (continued)	For the REXX environment, verify that one of the following libraries is APF-authorized: • REXX/370 runtime library: SEAGLPA • REXX alternate library: SEAGALT If you plan to use the Web Services Gateway, verify that the XML toolkit runtime library (SIXMLOD1) is APF-authorized. **Usage note:** You can use the SETPROG APF command to dynamically update the list of APF-authorized libraries. Beginning with V6R2, the Web Services Gateway no longer requires the GSKit runtime library (SIEALNKE). The following data sets are no longer used by NetView V6R2M1 and can be removed if they are not being used for other reasons: • SCNMUXLK • SEKGLNK1 • SEKGMOD1 • SEKGMOD2 • SEKGSMP1 • SEZLLINK

IEASYMxx	Add a SYSDEF statement to identify user-defined system symbols for the NetView program, including the TCP/IP application name, RODM name, and network ID.
	Setting these system symbols can alleviate modification of many of the NetView initialization members unless some default parameter such as a TCP/IP port needs to be changed.
	For example, you can define the following system symbols (these are the default NetView symbol names):
	`SYSDEF SYMDEF(&CNMTCPN='tcpip_name')`
	`SYSDEF SYMDEF(&CNMRODM='rodm_name')`
	`SYSDEF SYMDEF(&CNMNETID='network_id')`
	The initialization members that use these system symbols are shown in Table 11 on page 16.
	If you use sample A01APPLS (CNMS0013), you can set the &CNMDOMN symbol to the NetView domain name. If you do not set this symbol, replace &CNMDOMN with the NetView domain name.
	The NetView for z/OS Enterprise Management Agent also supports system symbols. If you need to make updates, see the *IBM Tivoli NetView for z/OS Installation: Configuring the NetView Enterprise Management Agent*.

Table 9. SYS1.PARMLIB Members (continued)	
Member Name	**Suggested Updates**
IEASYSxx	Specify the maximum number of ASIDs and replacement ASIDs for the NetView program. Beginning with V5R3, there are one or two additional address spaces per LPAR for the NetView agent. You will have two if you run a z/OS Tivoli Enterprise Monitoring Server. • Set MAXUSER to the number of ASIDs you want available at any one time. • Set RSVNONR to the value you want for replacement values. The total of the values of MAXUSER, RSVNONR, and RSVSTRT, cannot exceed 32767. If you want a low MAXUSER value, be sure to provide a reasonably large value for RSVNONR. Add a COUPLE system parameter to identify the COUPLExx member containing the DATA statements for the automatic restart manager (ARM) or the workload manager (WLM). Add PLEXCFG=MONOPLEX or PLEXCFG=MULTISYSTEM for ARM or WLM support. If you are adding this system to a sysplex to enable the NetView program to use XCF Services, see *z/OS MVS Setting Up a Sysplex* .
IEFSSNxx	Verify that the NetView and RODM subsystem names are defined: • RODM subsystem name (EKGX is the default) • 4-character NetView subsystem name (CNMP is the default) Beginning with NetView V6R1, specify the INITRTN value (DSI4LSIT) for each NetView subsystem defined in the IEFSSN*xx* member, for example: `SUBSYS SUBNAME(CNMP) INITRTN(DSI4LSIT)` However, do not specify an INITRTN value for NetView subsystems that are intended to run with a NetView release prior to V6R1. Consider the following conditions before deciding where to place the NetView subsystem name in IEFSSN*xx* • If you place the NetView subsystem name after other subsystem names in the IEFSSN*xx* member, all MVS messages and commands that are received by the NetView subsystem are affected by the changes made by the other subsystems that are listed before the NetView subsystem. • For z/OS Version 1.12 or later, if you are defining more than one NetView subsystem (SSI) in the IEFSSN*xx* member, the first NetView subsystem must come before the BEGINPARALLEL keyword. Any remaining NetView subsystems can be defined following the BEGINPARALLEL keyword. If you are defining only one NetView subsystem, the NetView subsystem can be placed before or after the BEGINPARALLEL keyword in the IEFSSN*xx* member. For more information about IEFSSN*xx* that talks about INITPARM, see *Installation: Getting Started*.
IKJTSO*xx*	If you plan to use the NetView agent, add the KPDDSCO command in the authorized program (AUTHPGM) section: `AUTHPGM NAMES(`**`KPDDSCO`**`,`*`pgm2`*`,...)` IBM Tivoli Monitoring components require the KPDDSCO command to be authorized in the IKJTSO*xx* member for persistent data store processing.

Table 9. SYS1.PARMLIB Members (continued)

Member Name	Suggested Updates
PROGxx or LNKLSTxx	If you are using LINKLST instead of a STEPLIB DD statement in any of your NetView JCL members (for example, your startup procedure), update your PROG*xx* member in the SYS1.PARMLIB data set to include the following program libraries as extensions to the SYS1.LINKLIB data set: • NETVIEW.V6R2M1.CNMLINK • NETVIEW.V6R2M1.SCNMLNKN • NETVIEW.V6R2M1.SAQNLINK Note that the SCNMLNKN data set is used for RODM trace, MVS command exit, and DSIPHONE subroutine (which is used by CMDSERV command server and by the UNIX and TSO command servers). The SCNMLNKN data set is not referenced in the NetView program samples; JCL for those samples must specify the SCNMLNKN data set on the STEPLIB DD statement if it is not included in the PROG*xx* member. The following data sets are no longer used by NetView V6R2M1 and can be removed if they are not being used for other reasons: • SCNMUXLK • SEKGLNK1 • SEKGMOD1 • SEKGMOD2 • SEKGSMP1 • SEZLLINK **Note:** If you are using the Take Action security solution for z/OS products which use the Tivoli Management Services infrastructure, coding the NetView CNMLINK data set in LNKLSTxx is not sufficient. You must also concatenate in the NetView CNMLINK data set under the RKANMODL DD statement in the Tivoli Enterprise Monitoring Server or the z/OS agent. See the *IBM Tivoli NetView for z/OS Installation: Configuring the NetView Enterprise Management Agent* for information about the Take Action security.

PROGxx exit routines	• If you plan to use the CNMSMF3E sample as an IEFACTRT exit routine, associate the CNMSMF3E sample to the IEFACTRT exit by adding the following statement to your PROG*xx* member:
	`EXIT ADD EXITNAME(SYS.IEFACTRT) MODNAME(CNMSMF3E)`
	More than one exit routine can be defined for the IEFACTRT exit, so there might be more than one EXIT statement for the SYS.IEFACTRT exit in your PROG*xx* member.
	• To enable NetView subsystem preinitialization messages to be written to the Canzlog log, add this statement to the PROGxx member:
	`EXIT ADD EXITNAME(CNZ_MSGTOSYSLOG) MODNAME(DSI4LCUI)`
	The preinitialization messages are logged with an ASTYPE value of E.

LOADxx	If necessary, add an IEASYM statement to identify the IEASYMxx member to use for user-defined system symbols.

Table 9. SYS1.PARMLIB Members (continued)

Member Name	Suggested Updates
LPALSTxx	Include the SCNMLPA1 data set. If you are running a previous NetView release on the same system as NetView V6R2M1, add the V6R2M1 SCNMLPA1 to LPALST*xx*. Ensure that LPALST*xx* does not include any previous NetView SCNMLPA1. Starting with V6R2, it is no longer necessary to load the CNMCSRVP module into your LPALST*xx*. If you have the CNMCSRVP module in the LPALST*xx* member, remove it. Data sets specified in the LPALST*xx* member no longer need to be APF-authorized or cataloged in the system master catalog. If the SCNMLPA1 data set is cataloged in a user catalog, specify (in parenthesis immediately following the data set name) the 1- to 6-character VOLSER of the pack on which the SCNMLPA1 data set resides, for example: `NETVIEW.V6R2M1.SCNMLPA1(volser)`
MPFLST*xx*	If you plan to use the MVS command exit DSIRVCEX for command revision, add the following statement to your MPFLSTxx member in SYS1.PARMLIB: `.CMD USEREXIT(DSIRVCEX)` For more information about the NetView command revision function, refer to *IBM Tivoli NetView for z/OS Automation Guide*.

SCHEDxx	NetView V6R2 and later requires z/OS 1.12 or later, which includes the program properties for the NetView modules. If you have the following existing entries in SCHEDxx, remove them:
	
	• The NetView program without the hardware monitor (NPDA), PGM=DSIMNT in your NetView JCL PROC:
	`PPT PGMNAME(DSIMNT) NOSWAP KEY(8)`
	• The NetView program with the hardware monitor (NPDA), PGM=BNJLINTX in your NetView JCL PROC:
	`PPT PGMNAME(BNJLINTX) NOSWAP KEY(8)`
	• The RODM program, PGM=EKGTC000 in your RODM JCL PROC:
	`PPT PGMNAME(EKGTC000) NOSWAP NOCANCEL`
	• The NetView GMFHS program, PGM=DUIFT000 in your GMFHS JCL PROC:
	`PPT PGMNAME(DUIFT000) NOSWAP KEY(8)`

Table 9. SYS1.PARMLIB Members (continued)	
Member Name	**Suggested Updates**
SMFPRMxx	Verify that type 37 (hardware monitor) and type 39 (session monitor) SMF records are set up to be collected. As of V5R4, if you plan to use the CNMSMF3E sample as an IEFACTRT exit routine, verify that type 30 SMF records are set up to be collected and that the EXITS operand of the SYS specification includes the IEFACTRT exit. **Note:** Use of the supervisor call instruction (SVC) number is no longer supported in the NetView program. If you were using an SVC number, delete the following statement: `LOGSVC nnn` The corresponding SVC can be deleted from LPALIB if you are no longer running a previous release of the NetView program.

Table 10 on page 15 lists the data spaces that are created by various NetView address spaces. If you limit the size of your data spaces in your installation with the IEFUSI exit, adjustments might be necessary when activating the functions listed in Table 10 on page 15.

Table 10. Data spaces created by the NetView program	
Address Space	**Data Spaces Created**
Master Scheduler	As of V6R1, subsystem initialization for the NetView program creates a data space to contain Canzlog data. This data space is, by default, defined with 2 GB of virtual storage, which can significantly impact real and auxiliary storage requirements. For more information about defining this data space, see the *Installation: Getting Started* manual. **Usage Notes:** • **Warning**: Proper planning for real and auxiliary storage must be performed before enabling the Canzlog data space, as system slowdown and hangs can occur with insufficient storage. • As of V6R2M1, with APARs OA55071 and OA55074, the active Canzlog data space size can be significantly reduced. For more information, see the *Installation: Getting Started*.

Table 10. Data spaces created by the NetView program (continued)	
Address Space	**Data Spaces Created**
NetView	• The NetView program creates an internal trace data space at initialization that is managed through the TRSIZE parameter in the CNMPROC startup procedure. • As of V6R1, the Canzlog archiving function creates data spaces that are used for browsing archived Canzlog data. The number of data spaces that are created is determined by the specification on the `ARCHIVE.BROWSE.DATASPACES` statement in the CNMSTYLE member. • As of V5R4, the OSA packet trace (OPKT) function creates a data space for each TCP/IP stack on your system. • As of V5R4, if the DISCOVERY tower is enabled in the CNMSTYLE member, the real-time SMF data network management interface (SYSTCPSM) creates a data space for each TCP/IP stack on your system. • As of V5R2, TCP/IP connection management (TCPCONN) creates a data space for each TCP/IP stack on your system. • As of V5R2 the IP packet trace (PKTS) function creates a data space for trace data. **Usage note:** In V6R2, the multi-trace function was added. With this function, each instance of a packet trace uses its own data space. In addition there is a global trace data space. This yields a maximum of 33 data spaces for packet trace data.
RODM	RODM creates and uses 3 data spaces. RODM allocates a 2 gigabyte data space at initialization.
NetView for z/OS Enterprise Management Agent	As of V5R3, the NetView agent creates a data space for each NetView program with which it communicates and a second data space is created if the value of the NACMD.PERSIST statement in the CNMSTYLE member is greater than zero.

The initialization members that use system symbols are listed in Table 11 on page 16:

Table 11. System Symbol Usage by Initialization Members				
Member	**Task**	**TCP/IP NAME**	**RODM NAME**	**NETID**
		&CNMTCPN	**&CNMRODM**	**&CNMNETID**
CNMSTYLE	NetView initialization	X	X	X
DUIGINIT	GMFHS (Graphics)		X	
FLBSYSD	SNA Topology manager		X	
Note: After you run job CNMSJBUP (see Table 13 on page 18), you can use sample CNMSJM12 in data set NETVIEW.V621USER.INSTALL as an alternate method to do symbol substitution. CNMSJM12 replaces system symbols in NetView members.				

Additional considerations include:

- The NetView V6R2M1 program requires access to the REXX runtime library or the REXX alternate library.
- Several of the NetView components (such as MultiSystem Manager and AON) and base NetView functions exercise code that is written in REXX. The NetView program also contains several parts that make use of the Data REXX function. Use the Data REXX function to include REXX instructions and functions in data files. To initialize the NetView program, you might need to adjust the maximum

number of language processor environments that the system initializes for the NetView address space. For more information about language processor (REXX) environments for the NetView program, refer to *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

- If you are going to run System Automation for z/OS and the AON component of the NetView program in the same address space, enable the workload manager. For more information, refer to *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.
- SAF access data for CNMCSSIR is no longer required.

Preparing UNIX System Services

The following steps are required to update the UNIX System Services for NetView V6R2M1. When you upgrade your MVS NetView components to NetView V6R2M1, also upgrade your UNIX System Services NetView components to V6R2M1.

Note:

1. Because of the way the NetView program accesses UNIX System Services configuration files, you can only run one version of the configuration files with the NetView program.
2. If you are running multiple NetView programs under one LPAR, you can only access the CNMEUNIX program from one of these NetView programs. This is because the PPI receiver is specified in the CNMEUNIX program.

These are the same basic steps required for a new installation. For additional information about these steps, refer to *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

1. Update member BPXPRM*xx* in SYS1.PARMLIB to specify UNIX System Services parameters.
2. The CNMSJ032 job creates directories in your z/OS UNIX System Services environment, copies application files, and MIB source files. Review the comments in the CNMSJ032 job profile and make any changes before running this job.
3. If necessary, update the z/OS UNIX System Services environment variables.
4. Review your existing RACF® definitions. For more information, refer to the *IBM Tivoli NetView for z/OS Security Reference*.
5. Enable the UNIX command server.
6. Review the Event/Automation Service startup procedure IHSAEVNT and the configuration files.
7. After installation, review the correlation engine CNMSJZCE start-up job.

The NetView program uses hierarchical file system (HFS) or zSeries file system (zFS) data sets relative to z/OS UNIX system services as described in the NetView program directory. The NetView program allocates the following directories:

```
./usr/lpp/netview/v6r2m1/bin
./usr/lpp/netview/v6r2m1/mibs
./usr/lpp/netview/v6r2m1/lib
./usr/lpp/netview/v6r2m1/samples
./usr/lpp/netview/v6r2m1/samples/at-tls
./usr/lpp/netview/v6r2m1/samples/properties
./usr/lpp/netview/v6r2m1/www
./usr/lpp/netview/v6r2m1/www/img
```

When you have completed your configuration, NetView V6R2M1 USS uses the directories in Table 12 on page 17:

Table 12. Directory structure used by UNIX System Services

Directory	Description
/usr/lpp/netview/v6r2m1/bin	Executable files
/usr/lpp/netview/v6r2m1/mibs	Management Information Base (MIB) files

Table 12. Directory structure used by UNIX System Services (continued)	
Directory	**Description**
/etc/netview/mibs	For user-defined MIBs and MIBs not included with NetView v6.2.1
/etc/netview/v6r2m1	Application files
/etc/netview/v6r2m1/properties	Application files
/tmp/netview/v6r2m1	Application files
/tmp/netview/v6r2m1/logs	Application files
/var/netview/v6r2m1/rulefiles	Application files

The NetView MIB collection can be found in the `/usr/lpp/netview/v6r2m1/mibs` directory. As provided, the NetView program looks for user-defined MIBs in the `/etc/netview/mibs/` directory. If you place your user-defined MIBs in another location, you must update the COMMON.CNMSNMP.MIBPATH statement in the CNMSTUSR or C*xx*STGEN member to reflect the locations of your MIBs. For more information about the MIB collection that is provided by the NetView program, refer to the README.mibs file in the `/usr/lpp/netview/v6r2m1/mibs/` directory.

Note: If, as part of your NetView migration, you upgraded the z/OS system to V1.12 or later, make sure that you run the CNMSJ032 sample to copy the MIB files to `/etc/netview/mibs`. For additional information about copying the MIB files, see the comments in the CNMSJ032 sample.

Preparing the NetView Program

Consider the steps in Table 13 on page 18 when migrating to NetView V6R2M1. These are the same basic steps required for a new installation. Noted in these steps are changes that affect migrating users. For additional information, refer to *IBM Tivoli NetView for z/OS Installation: Getting Started*.

Warning: After running CNMSJBUP, all of the NetView installation JCL and related members can be found in data set NETVIEW.V621USER.INSTALL. Only work from this data set. Continuing to work from NETVIEW.V6R2M1.CNMSAMP can cause unexpected results when you are running the installation JCL described in Table 13 on page 18.

Table 13. Installation JCL	
Member	**Description**
CNMSJBUP	Copies the installation JCL members in NETVIEW.V6R2M1.CNMSAMP into data set NETVIEW.V621USER.INSTALL. **Note:** The entire NetView samples library is not copied. Only a subset of the members that might need modification in data set NETVIEW.V6R2M1.CNMSAMP is copied.
CNMSJ001	Creates an ICF catalog and defines the ALIAS name NETVIEW as the high-level qualifier for the NetView data sets. Run this job if you did not define this alias name during the NetView program directory installation and you plan to use this high-level qualifier.

Table 13. Installation JCL (continued)

Member	Description
CNMSJ002	Allocates partitioned and sequential data sets. Allocate a set of NetView V6R2M1 user data sets for each NetView domain that you are installing and copy all of your customized members from the user data sets in that domain into these V6R2M1 data sets. **Note:** 1. Review the symbolic variables in the comments supplied in this job. Change the &UNIT and &SER JCL variables to match your installation, if needed. 2. Change the &DOMAIN JCL variable to match the NetView domain name you are installing. 3. As of V1R4, the following data sets are no longer needed: • NETVIEW.V*x*R*x*USER.&*domain*.USER.PROFILE • NETVIEW.V*x*R*x*USER.&*domain*.VIEW.OUTPUT 4. As of V5R1, the SEZLPNLU user data set is no longer used. Instead, use NETVIEW.V621USER.&*domain*.CNMPNL1. If you previously customized panels in the SEZLPNLU data set, migrate those changes to the panels in CNMPNL1. 5. As of V5R2, a user NETVIEW.V*x*R*x*USER.&*domain*.CNMCLST data set is provided to use for customized command lists and REXX Execs. 6. As of V5R4, the following sequential data sets are required to collect distributed DVIPA statistics: • NETVIEW.CNM01.CNMDVIPP • NETVIEW.CNM01.CNMDVIPS **Usage notes:** • Use the default (or larger) size allocations for these data sets so that the default number of records specified by the DVIPA.STATS.Pri.MAXR and DVIPA.STATS.Sec.MAXR statements in the CNMSTYLE member do not cause the data sets to reach capacity and lose data. • If you use the CNMSJ002 job to allocate new CNMDVIPP and CNMDVIPS data sets to a system that already has a previous NetView program installed, the data sets are not cataloged.
CNMSJ000	Changes the default NetView domain (CNM01), subarea (01), and the VSAM allocate volume (CPDLB2) in the NetView installation JCL and NetView samples. Changed samples are placed in the following data sets: • NETVIEW.V621USER.&domain.DSIPARM • NETVIEW.V621USER.INSTALL • NETVIEW.V621USER.&*domain*.VTAMLST If you specify a value of NOVOLSER for a VSAM volume symbol (V1, V2, and so on) in the CNMSJ000 member, this will cause the volume parameter to be removed from the IDCAMS member that allocates VSAM clusters for the associated component.

Table 13. Installation JCL (continued)

Member	Description
CNMSJ003	Copies NetView procedures to PROCLIB, AON members to the user DSIPARM and user CNMPNL1 data sets, and sample network VTAM members to the user VTAMLST data set. **Note:** 1. Review CNMSJI10 and make any changes before running CNMSJ003 to ensure that you do not write over existing members in your PROCLIB. Then, uncomment the //PDS2 EXEC statement in CNMSJ003. 2. As of V5R4, the copy steps for the NetView agent are no longer required.
CNMSJ004	Allocates VSAM clusters. Consider allocating new VSAM clusters for NetView V6R2M1. **Note:** 1. If necessary, redefine the NetView log, including passwords and switching between primary and secondary logs. 2. For more information about allocating VSAM clusters for RODM, refer to the *IBM Tivoli NetView for z/OS Installation: Configuring Graphical Components*. 3. As of V5R2, the DSITCONP and DSITCONS VSAM clusters are new for TCP/IP connection management. 4. As of V5R2, the VSAM clusters for AON are allocated by default in CNMSJ004. 5. As of V6R1, the FKXPKTS VSAM cluster is new for the Saved Packet Trace function. 6. If you are migrating from V5R2 or V5R3, allocate new DSITCONP and DSITCONS VSAM clusters because the allocation parameters for these have changed. **Note:** If you want to continue using your existing DSITCONP and DSITCONS VSAM clusters that were allocated with a CISZ of 22528, make sure that you include buffers of this size in the VSAM buffer DATA pool defined in the DSIZVLSR module. 7. The default DSIZVLSR module is based on using 3390 DASD (using ICF catalogs). Make sure that the copy of the DSIZVLSR module that you are using is compatible with your cluster definitions. If you change the default control interval size (CISZ) values or the default number of buffers for each buffer size, use the CNMSJM01 sample job to assemble and link edit a copy of the DSIZVLSR module into a user library. For information about the DSIZVLSR module, see the *IBM Tivoli NetView for z/OS Tuning Guide*. For information about running the CNMSJM01 sample, see the *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*. 8. As of V6R2M1 with APAR OA47872, the Save/Restore (DSISVRT) VSAM cluster must be reallocated. You can use sample job CNMSJM15 to allocate a new DSISVRT cluster, copy the data from your existing DSIVSRT cluster to the new cluster, and rename the new DSISVRT cluster to be used with the NetView program. This change is required to support the increased global variable name and value lengths.
CNMSJ033	Starting with V6R1, use the CNMSJ033 job to load an initialization record into the Saved Packet Trace database that was allocated using the CNMSJ004 job.

Additional installation considerations include:

1. Reassemble or recompile any user-written NetView code.

   If you have written applications that run with the NetView program, recompile your code with the SCNMMAC1 data set. Refer to the *IBM Tivoli NetView for z/OS Customization Guide* and *IBM Tivoli NetView for z/OS Programming: Assembler* for more information.

2. The MESSAGE category is no longer supported. Message forwarding is done by users or application programs such as AON. For migration, previously included NetView message forwarding samples will continue to work. Some of these samples rely on the following common global variables to be set during NetView initialization:

   &DIALTIME
   Maximum time that the alert forwarding command lists processing the VARY NET,DIAL command waits for a response from the command before continuing to process data.

   &WAITTIME
   Maximum time that the alert forwarding command lists processing commands other than VARY NET,DIAL waits for a response from the command before continuing to process data.

   &RETRYTIM
   Time that the message-forwarding command lists wait between link station dial attempts if the dial fails because the link station is in a state that is not valid.

   &LNK*domid*
   Link station name associated with the remote domain (*domid*). You can set this variable using the SETADIAL command.

   &CDRM*domid*
   CDRM name associated with the remote domain (*domid*). You can set this variable using the SETADIAL command.

   The following command can set the &LNK*domid* and the &CDRM*domid* variables. Code one for each host (remote domain) with which this host communicates over a switched line:

   ```
   SETADIAL domid linkid cdrmid
   ```

   Where:

   domid
   Is the 1–5 character name of the remote domain that communicates with this host over a switched line.

   linkid
   Is the 1–8 character cross-domain link station name associated with the remote domain.

   cdrmid
   Is the 1–8 character cross-domain CDRM name associated with the remote domain.

3. After the NetView program is distributed throughout the network, gradually migrate the nodes to use the RMTCMD command and LU 6.2 sessions.

   In a multiple CMC or multiple focal-point enterprise, update all CMCs or focal points to use the RMTCMD command and LU 6.2 sessions before you migrate these nodes to use extended multiple console support (EMCS) consoles. Also, in networks that use distributed automation, update all NetView programs that exchange messages to use the RMTCMD command and LU 6.2 sessions before you migrate the programs to use EMCS consoles. In both cases, if possible, complete the migration to the RMTCMD command and LU 6.2 sessions before you use EMCS consoles, to avoid losing MDB data such as highlighting and some DOM information.

4. The VIEW command processor is used to display full-screen panels from user-written programs. The VIEW command attempts to retrieve the value for any variables defined on a panel from the local dictionary of the calling procedure. If you have existing panels that need updates from global variables, you might have to isolate the VIEW call from local variables. You can do this with the REXX DROP or PROCEDURE statements or by using PIPE VAR. For more information, refer to the *IBM Tivoli NetView for z/OS Customization Guide*.

Preparing Graphical NetView Components

The graphics components are activated with TOWER statements in the CNMSTYLE member. Copy the TOWER statement to the CNMSTUSR or C*xx*STGEN member and remove the asterisk (*) from the components that you plan to use, including Graphics. Optionally, you can use a MODIFY.TOWER statement to add the graphics components.

Some changes to members included in the CNMSTYLE member (using the %INCLUDE statement) require a restart of the NetView program for them to take effect. For this reason, make all CNMSTYLE member updates at the same time for the graphics functions that you plan to use as part of this installation.

The steps that follow are required to update the graphics functions for the NetView V6R2M1 program:

- "RODM and GMFHS" on page 22
- "NetView Management Console" on page 23
- "SNA Topology Manager" on page 23
- "MultiSystem Manager" on page 23

For additional information about these steps, refer to *IBM Tivoli NetView for z/OS Installation: Configuring Graphical Components*.

RODM and GMFHS

Consider the following items in migrating RODM and GMFHS functions to the current release:

1. NetView VSAM clusters for the RODM log and checkpoint databases were defined when you ran sample job CNMSJ004 (see Table 13 on page 18).

   Note: Consider increasing the size of the RODM checkpoint data sets if you use the checkpoint function and the estimated number of objects that you expect to store in RODM exceeds the previous maximum supported number of approximately 524,000 objects.

2. Update the RODM start procedure EKGXRODM to match your environment.
3. Update the RODM definition member EKGCUST.
4. Review the initialization values for the RODM DSIQTSK task in DSIQTSKI.
5. Update the GMFHS start procedure CNMGMFHS to match your environment.
6. Update the GMFHS definition statements in DUIGINIT as needed.
7. Review the initialization values for the status focal point in members DUIISFP, DUIFPMEM, and DUIIGHB.
8. Use one of the following procedures to confirm that the NetView data model is current:
   - Update the CNMSJH12 sample job to refer to the data sets that contain data model definitions for the features that you are using. Then restart the RODM address space with the cold start option and run the CNMSJH12 sample job to load the data model into RODM.
   - Update the RODM start procedure to refer to the data sets that contain data model definitions for the features that you are using. Then restart the RODM address space with the cold start option and specify the INIT method (for example, EKGLISLM) to load the data model into RODM during initialization.
9. Optional: After loading the current data model into RODM, checkpoint the RODM data model so that the current NetView data model is used when the RODM address space is started with the warm start option. You can create the RODM checkpoint using the following command:

   ```
   mvs f ekgxrodm,chkpt
   ```

NetView Management Console

Consider the following items in migrating the NetView management console:

- Review your NetView management console topology server configuration.
- Review your NetView management console topology console configurations.

SNA Topology Manager

To migrate the SNA Topology manager, review the following initialization files:

- FLBEXV
- FLBOSIDS
- FLBSRT
- FLBSYSD

MultiSystem Manager

To migrate the MultiSystem Manager:

1. To enable the MultiSystem Manager agents, locate the following statement in the CNMSTYLE member:

   ```
   TOWER.MSM = ITNM OPN
   ```

   Agent names preceded by an asterisk (*) are disabled. Copy the TOWER.MSM statement to the CNMSTUSR or C*xx*STGEN member and remove or add asterisks as necessary to enable the agents that you plan to use. Optionally, you can use MODIFY.TOWER statements to enable the MSM tower and agent subtowers. When the TOWER.MSM statement is enabled, the %INCLUDE statement for FLCSOPF (used for operator profiles) is also enabled.
2. Upgrade your MultiSystem Manager agents to the current level.
3. For the IBM Tivoli Network Manager agent, ensure that an SNMP trap receiver task is configured and active.
4. Review your MultiSystem Manager initialization file (provided as FLCSAINP before NetView V5R1).
5. Allocate additional NetView DSRBs if necessary.
6. Review the number of REXX environments specified. For more information, refer to the *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.
7. Review the settings for the NetView RATE and AUTORATE statements, and for the RUNCMD timeout value.
8. Review the setup for the NetView cross-domain environment.

Preparing the AON Component

Make the following changes for AON:

- Copy the TOWER CNMSTYLE statement to the CNMSTUSR or C*xx*STGEN member and remove the asterisk (*) preceding the AON function. Optionally, you can use a MODIFY.TOWER statement to enable the AON function. This enables all of the AON components.
- On the subtower statement, add asterisks preceding any of the AON functions that you do not plan to use:

  ```
  TOWER.AON = SNA TCP
  ```

  For IP functions, the AON TCP subtower and IPMGT towers provide equivalent function, but are mutually exclusive.
- Optional: Define STATMON statements for AON/SNA.

- Move any TCP390 statements from AON configuration members EZLCFG01, FKXCFG01, and FKVCFG01 into the NetView base policy member CNMPOLCY.
- Update the AON control file.
- Review the AON policy definitions.
- Enable minimal AON functions if you are not using full AON automation.

Viewing V5R3 Sysplex IP Stack Manager Data in NetView V5R4 or Later

As of NetView V5R4, the discovery manager replaced the sysplex IP stack manager function; for information about the discovery manager, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

If you use the sysplex IP stack manager resource discovery function in the NetView V5R3 program and want to continue to see this information at a master NetView V6R2M1 program, while migrating to V6R2M1, apply the fix for APAR OA29938 to the appropriate V5R3 systems. When the fix for the APAR is applied to a resource discovery nucleus NetView program, data that is forwarded to it from other V5R3 NetView programs is passed to the master NetView V6R2M1 program. Note that the fix for the APAR needs to be applied only to the nucleus NetView program for the V6R2M1 master program to receive data from all the systems that are forwarding data to the nucleus NetView program.

For a V6R2M1 master NetView program to receive sysplex IP stack manager resource information from V5R3 systems, consider the following options:

- Apply the fix for APAR OA29938 to all V5R3 NetView programs and then migrate a NetView program that is to be a master NetView program to V6R2M1.
- Apply the fix for APAR OA29938 to a nucleus NetView program that is to forward data to the V6R2M1 master NetView program and then migrate a NetView program that is to be a master NetView program to V6R2M1. If the NetView program that you want to migrate is the nucleus system, you can set up another nucleus NetView program to collect data from V5R3 systems to forward to the V6R2M1 master NetView program.

Note that NetView V6R2M1 discovery manager resource information cannot be viewed in downlevel NetView programs.

On the master NetView program for V6R2M1, add an ENT.SYSTEMS statement for each V5R3 NetView program that has the fix applied for APAR OA29938 and will forward data to this master NetView program. For information about the ENT.SYSTEMS statement, see the *IBM Tivoli NetView for z/OS Administration Reference*.

Migrating from the NetView Web Application Server

Some of the data sources that are accessed using the NetView Web Application server can be migrated to the Web Services Gateway function. This includes dynamically generated HTML files referred to by the DSICMDS function and other sources of data presented by the NetView Web server.

Migrating HTML Files Referred to by the DSICMDS Function

Existing dynamically generated HTML files referred to by the DSICMDS function can be used by the Web Services Gateway function by specifying them in one of the following URLs:

- `http://`*`yournvhost`*`:`*`port`*`/?DSICMDS=`*`command`*
- `https://`*`yournvhost`*`:`*`port`*`/?DSICMDS=`*`command`*

where *command* specifies the NetView command to be issued. Any blanks in the command must be specified as a plus sign (+) for the command to be correctly parsed. NetView Web services changes the plus signs to blanks before issuing the command. The first time you use the DSICMDS function in your Browser session, you are prompted to provide a NetView operator ID and password under which the

command will run. The operator ID and password are bas64 encoded. Using an HTTPS session prevents the password from being sent as clear text.

Using Sources of Data Relative to NVSP.SOASRVR1.PDS

You can display data sources that are relative to the base URL defined by the `NVSP.SOASRVR1.PDS` statement in the CNMSTYLE member, which can be a USS directory or an MVS partitioned data set (PDS). For security, verify that these files are protected by an SAF product such as RACF and that you have the correct level of file permissions.

Example 1: Using a USS directory

The CNMSTYLE member contains the following statement:

```
(NVSOA)NVSP.SOASRVR1.PDS = /usr/xyz
```

In this case, to access resource /usr/xyz/resource, use one of the following URLs:

- `http://`*`yournvhost`*`:`*`port`*`/resource`
- `https://`*`yournvhost`*`:`*`port`*`/resource`

Example 2: Using a PDS

The CNMSTYLE member contains the following statement:

```
(NVSOA)NVSP.SOASRVR1.PDS = USER.INIT
```

In this case, to access resource 'USER.INIT(RESOURCE)', use one of the following URLs:

- `http://`*`yournvhost`*`:`*`port`*`/resource`
- `https://`*`yournvhost`*`:`*`port`*`/resource`

Migrating Sources of Data by Specifying DD Name or Data Set Name

You can display sources of data that reside in a PDS by specifying their DD name or data set name along with the member name.

Example 1: Using a DD name

To display member *panel_name* from the CNMPNL1 data set, use one of the following URLs:

- `http://`*`yournvhost`*`:`*`port`*`/DD/CNMPNL1/`*`panel_name`*
- `https://`*`yournvhost`*`:`*`port`*`/DD/CNMPNL1/`*`panel_name`*

Example 2: Using a data set name

To display member *member_name* from the USER.INIT data set, use one of the following URLs:

- `http://`*`yournvhost`*`:`*`port`*`/DSN/USER.INIT/`*`member_name`*
- `https://`*`yournvhost`*`:`*`port`*`/DSN/USER.INIT/`*`member_name`*

Sending the Data

The HTML <form> tag has an action attribute that you can use to specify a URL that defines where to send the data when you click **Submit**. Use `/znvsoa/dsicmds` as the action attribute.

Within the <form> tag, the first <input> tag must be a hidden tag that defines the command to be used to process the form, for example:

```
<form method="post" name="NetView"
     action="/znvsoa/dsicmds" />

     <INPUT TYPE=HIDDEN VALUE="?mytest" NAME="COMMAND">
        <h3>This form sends an e-mail to IBM. </h3>
        Name:<br>
```

```
        <input type="text" name="name"
        value="yourname" size="20"><br>
    <br>Mail:<br>
    <input type="text" name="mail"
    value="yourmail" size="20">
    <br>
    Comment:<br>
    <input type="text" name="comment"
    value="yourcomment" size="40">
    <br><br>
    <input type="submit" value="Submit">
    <input type="reset" value="Reset">
    <hr>
</form>
```

Additional Considerations for Migrating DSIPARM and DSICLD Members

If your existing DSIPARM and DSICLD members contain changes that you added, you can add the changes for the new release to your existing members, instead of using the copies created during NetView installation. For more information, see one of the following topics:

- Chapter 3, “Migrating from Tivoli NetView for OS/390 V1R4,” on page 27
- Migrating from Tivoli NetView for z/OS V5R3
- Chapter 4, “Migrating from Tivoli NetView for z/OS V5R4,” on page 65
- Chapter 5, “Migrating from Tivoli NetView for z/OS V6R1,” on page 81
- Chapter 6, “Migrating from Tivoli NetView for z/OS V6R2,” on page 91

NetView support for the GDPS Active/Active Continuous Availability solution was moved to the NetView Monitoring for GDPS product. For migration information, see IBM NetView Monitoring for GDPS *Configuring and Using the GDPS Active/Active Continuous Availability Solution*.

After you make any necessary changes, continue with Chapter 7, “Getting Ready to Start NetView,” on page 99.

Chapter 3. Migrating from Tivoli NetView for OS/390 V1R4

This section describes how to migrate the NetView program to run as a production system if you are migrating from the Tivoli NetView for OS/390 V1R4. The migration information is based on the NetView components included with the initial release of V1R4. Review your maintenance to see if you have already made some of the changes that are described in this chapter.

You can either add the V6R2M1 content into your V1R4 NetView definitions, or add your V1R4 customization to the default V6R2M1 members supplied with the NetView program. Either way, place the customized member into an appropriate user-allocated data set such as NETVIEW.V621USER.CNM01.DSIPARM. Do not customize members in the SMP/E-managed data sets such as NETVIEW.V6R2M1.DSIPARM.

Several factors can influence the method you use when migrating your NetView definition members. Factors such as the size and complexity of your network, security policies that must be followed, and established practices within your business can all influence what is the best method for your migration. The checklist that follows details the documented method of migration as outlined in this book and supported by other books in the NetView library. Choose the method of migration that is best for you.

Perform the following steps to migrate your V1R4 definitions:

1. Allocate a new set of V6R2M1 user data sets by running sample job CNMSJ002. You needed to have done this when you completed the steps in Table 13 on page 18.
2. Run the CNMSJMIG sample job to convert statements in various members in your V1R4 DSIPARM data set to the new CNMSTYLE format. See Appendix F, “Migrating to the CNMSTYLE and CNMCMD Members,” on page 211 for more details.
3. Run the CNMSJMIG sample job to convert the statements in your V1R4 DSICMD member to the new statement format in the CNMCMD member. See Appendix F, “Migrating to the CNMSTYLE and CNMCMD Members,” on page 211 for more details.
4. Define a unique &NV2I value (*xx*) for each NetView domain.
5. If you ran the CNMSJMIG job, move any domain-specific statements that were created from the CNMSTUSR member into the C*xx*STGEN member, where *xx* is the value of the local symbolic variable &NV2I that you defined in the previous step.
6. Review your customized V1R4 copy of the CNMSTYLE member. Move all of your domain-specific customization of V1R4 CNMSTYLE statements into the C*xx*STGEN member and all of your system-wide customization of V1R4 CNMSTYLE statements into the CNMSTUSR member, noting that some of these changes might have been added by the CNMSJMIG job. Do not copy your V1R4 CNMSTYLE member into the V6R2M1 user DSIPARM data set.
7. Review the CNMSTYLE information in this section and the V6R2M1 CNMSTNXT member shipped with the NetView program. Place any domain-specific customization of CNMSTYLE statements into the C*xx*STGEN member and any system-wide customization of CNMSTYLE statements into the CNMSTUSR member. Do not modify the V6R2M1 default CNMSTYLE member.
8. Review the remaining information in this chapter, and migrate your V1R4 NetView definition members and JCL procedures as appropriate, placing only those members that were modified into the V6R2M1 user data sets.

Figure 1 on page 28 shows the initialization flow for NetView V1R4, and Figure 2 on page 28 shows the NetView V6R2M1 initialization flow. Keep this new initialization flow in mind as you make changes to your DSIPARM members.

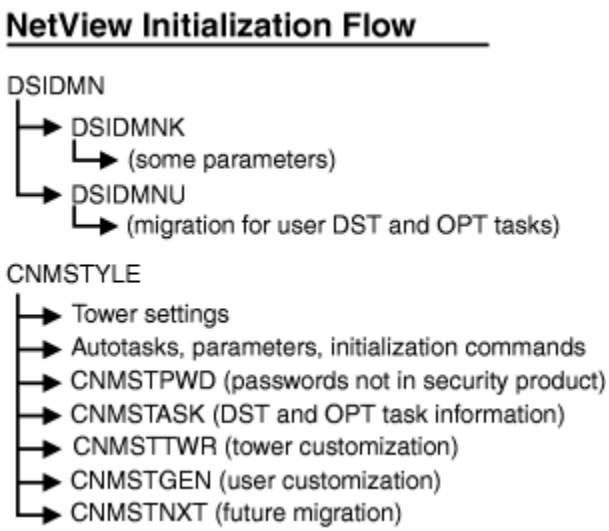


Figure 1. NetView V1R4 Initialization Flow

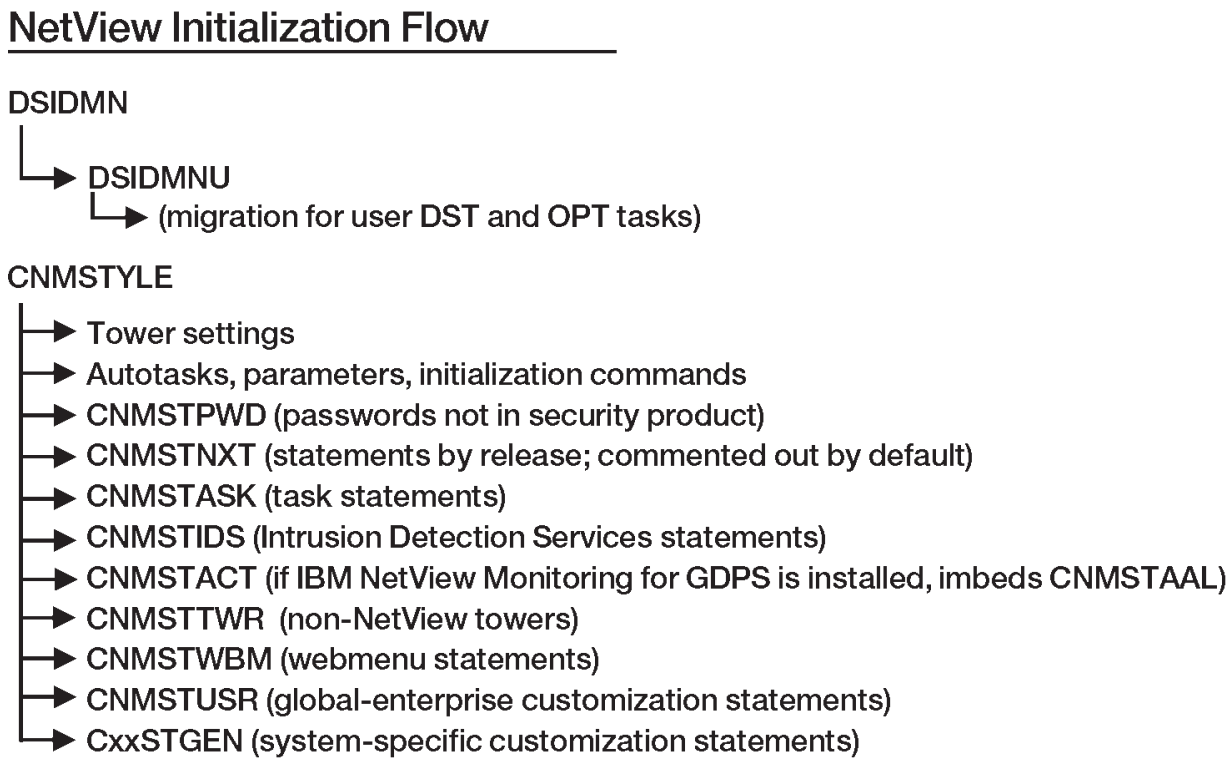


Figure 2. NetView V6R2M1 Initialization Flow

When you finish with this chapter, continue with Chapter 7, “Getting Ready to Start NetView,” on page 99.

For changes by release, including changed panels, commands, messages, and samples, see the following appendixes:

- Changes from Tivoli NetView for OS/390 V1R4 to Tivoli NetView for z/OS V5R1: *IBM Tivoli NetView for z/OS Installation: Migration Guide* GC27-2854-02
- Appendix A, “Changes from Tivoli NetView for z/OS V5R3 to Tivoli NetView for z/OS V5R4,” on page 127
- Appendix B, “Changes from Tivoli NetView for z/OS V5R4 to Tivoli NetView for z/OS V6R1,” on page 155
- Appendix C, “Changes from Tivoli NetView for z/OS V6R1 to Tivoli NetView for z/OS V6R2,” on page 177

- Appendix D, “Changes from Tivoli NetView for z/OS V6R2 to Tivoli NetView for z/OS Version V6R2M1,” on page 193

Migrating the Unattended or Procedural Feature

The NetView Unattended and Procedural options are no longer available. If you previously installed the NetView program using the Unattended or Procedural options, use the following steps to migrate to the NetView V6R2M1 program (Graphical Enterprise option).

Migrating to the Graphical Enterprise NetView program does not require you to run any of the graphical functions. However, there might be some additional installation steps that are required to activate the Graphical Enterprise option of NetView. You can skip certain installation steps that are marked as only applying to a graphical function that you do not want to activate. However, keep in mind that if at some point you decide to activate a graphical function, these installation steps need to be revisited to ensure that all of the necessary setup is complete.

Table 14 on page 29 lists functions that were available with the V1R4 Graphical Enterprise option that are now available to you with the NetView V6R2M1 program.

Table 14. Available New Functions

Function	Procedural	Unattended
GMFHS	•	•
NetView management console	•	•
MultiSystem Manager	•	•
SNA topology manager	•	•
AON		•

RODM is available at the Unattended and Procedural levels of the NetView program but is mostly utilized by the graphical functions available with the Graphical Enterprise option and therefore might not have not been activated with your Unattended or Procedural NetView program.

New Samples

Table 15 on page 30 lists new samples to review during migration.

Table 15. User-defined command authorization

Distributed As	Name	Description	Data Set Name
CNMCMD	same	NetView command definitions for NetView commands The CMDDEF statements provide the definitions for the commands. Some of the CMDDEF statements have command synonyms (CMDSYN). These statements provide a synonym for the command. This definition also provides the cross-domain logon definitions and the CMDDEF statements (and synonyms) for the terminal access facility (TAF) and the VTAM program. The following files are included in NETVIEW.V6R2M1.CNMSAMP: • CNMS6206 • CNMS6401 - CNMS6404 Include these files in CNMCMD so that you can use the automation command lists that are also included on the distribution media.	DSIPARM
CNMCMDO	same	Command definitions for product-specific defined commands	DSIPARM
CNMCMDU	same	Command definitions for user-defined commands	DSIPARM
CNMCMENT	same	NetView command definitions	DSIPARM
CNMCMSYS	same	NetView command definitions	DSIPARM
CNMIPMGT	same	Automation policy for NetView IP management	DSIPARM
CNMPOLCY	same	Automation policy for NetView	DSIPARM
CNMS8050	ZAIGET	Connects to IBM System z® Advanced Workload Analysis Reporter (IBM zAware) and queries the IBM zAware server for data	CNMSAMP
CNMS8051	ZAIPROC	Defines the IBM zAware query and calls the ZAIGET sample	CNMSAMP
CNMS8052	ZAITIMER	Issues the ZAIPROC sample periodically	CNMSAMP
CNMS8053	same	Saves long global variables	CNMSAMP
CNMS8054	same	Restores long global variables	CNMSAMP
CNMSAF2	same	Sets RACF definitions for NetView operators and commands	CNMSAMP
CNMSBAK1	same	Backup command authorization table	DSIPARM
CNMSCAT2	same	Sample command authorization table	DSIPARM
CNMSCATU	same	User-defined command authorization table	DSIPARM
CNMSCBEA	same	Automation sample that shows how to use the Common Base Event automation table action to produce common base event XML documents	DSIPARM

Table 15. User-defined command authorization (continued)

Distributed As	Name	Description	Data Set Name
CNMSCBET	same	Template file for defining Common Base Event XML elements	DSIPARM
CNMSCM	same	SNMP community names for TCP/IP stacks	DSIPARM
CNMSCSFM	same	Command Statistics Data Formatter	CNMSAMP
CNMSCSIE	same	Command Statistics Include and Exclude Definitions	CNMSAMP
CNMSCSSU	same	Command Statistics Summary Data	CNMSAMP
CNMSDCA	same	Provides automation statements that help control the data collection autotasks that are managed by the COLLCTL command.	DSIPARM
CNMSDDCR	same	Displays distributed DVIPA connection routing information. It formats the DVIPDDCR command output (BNH815I message) into a readable format.	CNMSAMP
CNMSDSCP	same	Command Statistics Data Processor	CNMSAMP
CNMSDVCG	same	Automation table member for z/OS Communications Server VIPADYNAMIC TCP/IP profile updates that is included when the DVIPA tower is enabled. The VIPADYNAMIC TCP/IP profile statements that are changed trigger rediscovery for DVIPA functions on this z/OS system.	DSIPARM
CNMSDVDS	same	Automation table member that is used for DVIPA data discovery (including rediscovery) and distributed DVIPA statistics on the master NetView program. It processes the DSIIF003I (DVIPA rediscovery), DSIIF004I (DVIPA data forwarding), DSIIF006I (DVIPA data request), and BNH867I (distributed DVIPA statistical records) messages.	DSIPARM
CNMSDVEV	same	Automation table member for DVIPA SMF runtime updates that is included when the DVIPA tower is enabled. The automation detects that a z/OS Communications Server SMF DVIPA update was received, which then triggers rediscovery for DVIPA functions on this z/OS system.	DSIPARM
CNMSDVIP	same	This sample displays the DVIPA definition and status data. It formats the DVIPSTAT command output (BNH846I message) into a readable format.	CNMSAMP
CNMSDVPC	same	Displays DVIPA connections. It formats the DVIPCONN command output (BNH849I message) into a readable format.	CNMSAMP
CNMSDVPH	same	Displays distributed DVIPA server health information. It formats the DVIPHLTH command output (BNH814I message) into a readable format.	CNMSAMP
CNMSDVST	same	Displays the data in the distributed DVIPA statistical data sets.	CNMSAMP

Table 15. User-defined command authorization (continued)

Distributed As	Name	Description	Data Set Name
CNMSDVTP	same	Automation table member for DVIPA SNMP trap automation that is included when the DVIPA tower is enabled. The automation detects that a z/OS Communications Server DVIPA trap was received, which then triggers rediscovery for DVIPA functions on this z/OS system.	DSIPARM
CNMSEMAA	same	Automation table member for the NetView agent	DSIPARM
CNMSEPTL	same	Automation table sample for resource discovery	DSIPARM
CNMSHIPR	same	Displays HiperSockets configuration and status information. It formats the HIPERSOC command output (BNH598I message) into a readable format.	CNMSAMP
CNMSIFST	same	Displays IP interfaces. It formats the IFSTAT command output (BNH498I message) into a readable format.	CNMSAMP
CNMSJM14	same	Reorganizes the Saved Packet Trace database	CNMSAMP
CNMSJM15	same	Migrates the save/restore (DSISVRT) VSAM cluster	CNMSAMP
CNMSJCRG	same	CNMSTYLE report generator sample job	CNMSAMP
CNMSJMIG	same	CNMSTYLE migration tool sample job	CNMSAMP
CNMSMF3A	same	Sample command list that is called by the automation table when the BNH874I message is issued. This sample is used for SMF record type 30 automation.	CNMSAMP
CNMSMF3E	same	Sample IEFACTRT SMF exit to process type 30 SMF records and send them across the program-to-program interface (PPI) to the NetView program for automation	CNMSAMP
CNMSMF3F	same	Sample that formats the BNH874I message. This sample is used for SMF record type 30 automation.	CNMSAMP
CNMSMF3R	same	Sample PPI receiver that formats the BNH874I message. This sample is used for SMF record type 30 automation.	CNMSAMP
CNMSMRT1	same	Message revision table	DSIPARM
CNMSMSIP	same	Sends a CP-MSU over IP	CNMSAMP
CNMSNVST	same	Displays NetView application information. It formats the NVSTAT command output (BNH495I message) into a readable format.	CNMSAMP
CNMSOSAP	same	Displays the OSA channel and port information. It formats the OSAPORT command output (BNH597I message) into a readable format.	CNMSAMP
CNMSPAN2	same	Sample NetView span table	DSIPARM
CNMSPLEX	same	This sample displays the DVIPA sysplex distributor data. It formats the DVIPPLEX command output (BNH847I message) into a readable format.	CNMSAMP

Table 15. User-defined command authorization (continued)

Distributed As	Name	Description	Data Set Name
CNMSSMON	same	This sample provides z/OS Communications Server sysplex monitoring message automation and is included when the DVIPA tower is enabled.	DSIPARM
CNMSSTAC	same	This sample displays the TCP/IP stack configuration and status data. It formats the STACSTAT command output (BNH845I message) into a readable format.	CNMSAMP
CNMSTACT	same	This sample includes the CNMSTAAL member if the IBM Tivoli NetView Monitoring for GDPS product is installed. The CNMSTACT member is used for the GDPS Active/Active Continuous Availability solution.	SAQNPARM
CNMSTARG	same	This sample displays the distributed DVIPA target data. It formats the DVIPTARG command output (BNH813I message) into a readable format.	CNMSAMP
CNMSTIDS	same	Includes Intrusion Detection Services (IDS) initialization statements.	DSIPARM
CNMSTNST	same	This sample displays the configuration and status information about Telnet servers. It formats the TELNSTAT command output (BNH496I message) into a readable format.	CNMSAMP
CNMSTPST	same	This sample displays the configuration and status information about Telnet server ports. It formats the TNPTSTAT command output (BNH497I message) into a readable format.	CNMSAMP
CNMSTUSR	same	Customization member for the CNMSTYLE member: include additional or modified global (enterprise) definition statements that override statements in the CNMSTYLE member.	DSIPARM
CNMSTWBM	same	Includes webmenu statements	DSIPARM
CNMSVPRT	same	Displays status information about VIPA routes. It formats the VIPAROUT command output (BNH824I message) into a readable format.	CNMSAMP
CNMSXCFA	same	Automation sample for XCF sysplex support	DSIPARM
DSIAUTB	same	Part list for usage of the AUTBYPAS REXX or CLIST function	DSIPARM
DSIAUTBU	same	User-defined part list for AUTBYPAS REXX or CLIST function	DSIPARM
DSIOPFAU	same	Operator definitions for existing AUTO1 and AUTO2 autotasks.	DSIPARM
DSIOPFEX	same	Example operator definitions and passwords that can be modified or deleted	DSIPARM
DSIOPFIX	same	Operator definitions that cannot be modified	DSIPARM
DSIOPFST	same	Operator definitions that can be modified	DSIPARM

Table 15. User-defined command authorization (continued)

Distributed As	Name	Description	Data Set Name
DSIPROFG	same	Automated operator profile that is functionally equivalent to the DSIPROFD profile. It is provided for compatibility reasons.	DSIPRF
DSIPROFN	same	Automated operator profile for the NetView agent data collection autotasks (AUTODC*n*)	DSIPRF
DSIPROFP	same	Automated operator profile for an autotask that has high CPU processor utilization and runs with SLOGCMDR=NO	DSIPRF
DSIW3PRF	same	Properties definitions for 3270 Web sessions	DSIPARM
DSIZCETB	same	Automation table sample for the event correlation engine	DSIPARM
EKG51100	same	PL/I Sample - Function (connect with password phrase) EKG_ConnectLong	CNMSAMP
EKG61100	same	C Sample - Function (connect with password phrase) EKG_ConnectLong	CNMSAMP
EZLCMENT	same	NetView command definitions for base AON commands	DSIPARM
FKVCMENT	same	NetView command definitions for AON/SNA commands	DSIPARM
FKXCMENT	same	NetView command definitions for AON/TCP commands	DSIPARM
FKXIPMTB	same	Configuration data for NetView IP management automation	DSIPARM
FKXOPFIP	same	Operator definitions for NetView IP management automation	DSIPARM
FLCAINP	same	Sample initialization file This file can be used as a template when creating the MultiSystem Manager initialization file (or files) for your site. If you rename this file, specify that file name when issuing the INITTOPO command. FLCAINP contains an example of how to use the %INCLUDE statement to include other MultiSystem Manager initialization files.	DSIPARM
IHSABCDS		The IHSABCDS sample contains the sample class definition statements for the Event/Automation Service confirmed alert adapter.	SCNMUXCL

Table 15. User-defined command authorization (continued)

Distributed As	Name	Description	Data Set Name
IHSABCFG		The IHSABCFG sample is the sample configuration file for the Event/Automation Service confirmed alert adapter.	SCNMUXCL
IHSANCFG		The IHSANCFG sample is the sample configuration file for the Event/Automation Service confirmed message adapter.	SCNMUXCL
IHSANFMT		The IHSANFMT sample provides sample format specification statements for the Event/Automation Service confirmed message adapter.	SCNMUXCL

VTAM Address Space

The samples in this section list changes for the VTAM address space.

A01APPLS (CNMS0013)

This member contains the application (APPL) major nodes coded for the NetView program.

If you did not reallocate and recopy the VTAMLST data sets, make the following changes to A01APPLS:

- Either set the domain ID (system variable &CNMDOMN) in SYS1.PARMLIB member IEASYM*xx* or change *every* occurrence of &CNMDOMN. in A01APPLS (CNMS0013) to the current domain ID.
- If you are not using the status monitor preprocessor, you can replace the APPL statements defining tasks for multiple concurrent NetView operators with one APPL statement using wildcard characters (??), for example:

```
&CNMDOMN.0?? APPL  AUTH=(NVPACE,SPO,ACQ,PASS),PRTCT=&CNMDOMN.,     X
               EAS=4,MODETAB=AMODETAB,DLOGMOD=DSILGMOD
```

- If you are not using the status monitor preprocessor, you can replace the TAF APPL statements with one APPL statement using wildcard characters (??) following the LU name, for example:

```
TAF01O?? APPL  MODETAB=AMODETAB,EAS=9,       X
               DLOGMOD=M3767
```

APPL names defined for use by other applications (such as TAF) must not be defined with the same naming scheme as terminal logon APPLs (for example, the domain name followed by a 3-character suffix). Doing so can cause these application names to be used by the NetView program for terminal logons, which can make the application names unavailable for the purpose for which they were defined.

CNMNET (CNMSJ008)

CNMNET (CNMSJ008) is the start procedure for the VTAM program.

Change CNMNET in your PROCLIB in the following way:

1. For NetView data sets ensure your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets ensure your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.

NetView Address Space

The samples in this section list changes for the NetView address space.

AAUPRMLP

The AAUPRMLP member in the DSIPARM data set contains initialization statements for the session monitor. It includes logic to extract initialization values from the CNMSTYLE member. Use the V6R2M1 copy of the AAUPRMLP member, and update the NLDM statements in the CNMSTUSR or C*xx*STGEN member to reflect the values previously specified in the AAUPRMLP member. Do not modify the version of the AAUPRMLP member that is included with the NetView product.

BNJMBDST

If you made changes to the BNJMBDST hardware monitor initialization member, migrate the changes to the CNMSTUSR or C*xx*STGEN member. Most BNJMBDST statements have associated statements in the CNMSTYLE member (for example, NPDA.DSRBO or NPDA.ALERTFWD).

BNJMBDST statements that apply to DST members (for example XITCI) have no associated CNMSTYLE statements. In this case, add these statements to the Data REXX version of the BNJMBDST member. Make sure that you enclose the statements in quotation marks so that the REXX program can return them as NetView data lines rather than interpreting them as REXX statements.

CNMEALUS

The CNMEALUS REXX EXEC sample is enhanced. This sample provides examples on how to add user data to alert information and pass the alert information to either the alert adapter or the confirmed alert adapter of Event/Automation Service.

CNMEMSUS

The CNMEMSUS REXX EXEC sample is enhanced. This sample provides examples on how to add user data to message information and pass the message information to either the message adapter or the confirmed message adapter of Event/Automation Service.

CNMPROC (CNMSJ009)

CNMPROC (CNMSJ009) is the start procedure for the NetView program.

Make the following changes to CNMPROC in your PROCLIB:

1. For NetView data sets ensure your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.
2. For NetView data sets ensure your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
3. Because the AON VSAM data sets have increased in size, reallocate them during migration. For more information about allocating VSAM data sets, refer to *IBM Tivoli NetView for z/OS Installation: Getting Started*. Also note that the VSAM cluster name prefixes have changed to NETVIEW.&*domain*.
4. Add the following TQ1 statement after the VQ1 statement to specify the high-level qualifier of your NetView sequential data sets:

   ```
   //       TQ1=NETVIEW,          ** SEQUENTIAL DSN HIGH LEVEL QUALIFIER
   ```

   This statement does not affect the dynamic allocation of the sequential data sets used by the archive Canzlog function.
5. The default region size was increased to 98304K. If you are using the existing default region size (32768K) for the NetView product, increase the region size value:

   ```
   //       REG=98304,            ** REGION SIZE(IN K) FOR NETVIEW
   ```

Depending on the components that you are running, you might want to increase the region size even more. For additional information, refer to the *IBM Tivoli NetView for z/OS Tuning Guide*.

6. Add the following REXX statement after the SQ1 statement to specify the high-level qualifier of your REXX libraries:

```
//       REXX='EAG.V1R4M0',    ** REXX DSN HIGH LEVEL QUALIFIER
```

7. Add the following TRSIZE statement and comments after the NV2I statement to allow the specification of the trace table size:

```
//       NV2I='',
//       TRSIZE=4000
//*                             ** INTERNAL TRACE TABLE SIZE - Number
//*                             ** of pages to be allocated for the
//*                             ** NetView Internal Trace table. The
//*                             ** trace table is located in a data
//*                             ** space, so the value can be up to
//*                             ** 524286. If no value is specified,
//*                             ** the default of 4000 is used. If
//*                             ** a value of 0 is passed, internal
//*                             ** trace is not started early. Trace
//*                             ** options in CNMSTYLE take effect
//*                             ** even if trace is not started early.
//*
```

8. Add the &TRSIZE variable to the NetView EXEC statement, as shown:

```
//NETVIEW  EXEC PGM=&PROG,TIME=1440,
//         REGION=&REG.K,
//         PARM=(&BFSZ.K,&SLSZ,
//           '&DOMAIN','&DOMAINPW','&ARM','&SUBSYM','&NV2I','&TRSIZE'),
//         DPRTY=(13,13)
```

9. Remove the following DD statement from the STEPLIB concatenation:

```
//         DD   DSN=&SQ1..SEKGMOD1,DISP=SHR
```

10. Add the SAQNLINK data set ahead of the CNMLINK data set in the STEPLIB concatenation:

```
//STEPLIB  DD   DSN=&SQ1..SAQNLINK,DISP=SHR
//         DD   DSN=&SQ1..CNMLINK,DISP=SHR
```

11. Change the following DD statement in the STEPLIB concatenation (change SEAGLMD to SEAGLPA):

```
//* YOU WILL NEED ACCESS TO EITHER THE REXX/370 RUNTIME LIBRARY
//* OR THE REXX ALTERNATE LIBRARY AS FOLLOWS:
//*
//* - IF YOU HAVE THE REXX/370 LIBRARY ON YOUR SYSTEM BUT SEAGLPA
//*   IS NOT ACCESSIBLE FROM THE PAGEABLE LINK PACK AREA (PLPA),
//*   THEN YOU MUST UNCOMMENT THE "SEAGLPA" LINE BELOW.
//*
//*    OR
//*
//* - IF YOU HAVE THE REXX ALTERNATE LIBRARY ON YOUR SYSTEM,
//*   BUT SEAGALT IS NOT ACCESSIBLE FROM THE PLPA OR LINKLST,
//*   THEN YOU MUST UNCOMMENT THE "SEAGALT" LINE BELOW.
//*
//* WHEN YOU UNCOMMENT EITHER OF THE LINES BELOW, MAKE SURE
//* THAT THE DSN ACTUALLY MATCHES THE NAME ON YOUR SYSTEM.
//* IN ADDITION, MAKE SURE THAT THE DATASET IS APF-AUTHORIZED.
//*
//*        DD   DSN=&REXX..SEAGLPA,DISP=SHR
//*        DD   DSN=&REXX..SEAGALT,DISP=SHR
```

Note: Either the REXX/370 runtime library or the REXX alternate library is required.

12. If you plan to use the Web Services Gateway function, uncomment the XML library DD statement.

```
//*************************************************************
//*
//* IF YOU ARE STARTING THE NETVIEW WEB SERVICES SERVER THEN
//* YOU WILL NEED ACCESS TO THE IBM XML TOOLKIT RUNTIME LIBRARY.
//*
```

```
//* - IF YOU HAVE THIS LIBRARY ON YOUR SYSTEM BUT IT IS NOT
//*   ACCESSIBLE FROM THE PLPA OR LINKLST, THEN YOU MUST
//*   UNCOMMENT THE LINE BELOW.
//*
//* WHEN YOU UNCOMMENT THE LINE BELOW, MAKE SURE THAT THE DSN
//* ACTUALLY MATCHES THE NAME ON YOUR SYSTEM.  IN ADDITION,
//* MAKE SURE THAT THE DATA SET IS APF-AUTHORIZED.
//*
//* FOR THE LINE BELOW, THE FOLLOWING JCL SYMBOLIC IS ASSUMED:
//*      QIXM='IXM.V1R10M0', ** IBM XML TOOLKIT RUNTIME LIB.
//*
//*        DD   DSN=&QIXM..SIXMLOD1,DISP=SHR
```

13. Remove the following statements from the STEPLIB concatenation:

```
//        DD   DSN=&SQ1..SEZLLINK,DISP=SHR
```

14. If you plan to run Language Environment® (LE) HLL programs with the NetView program, and did not install the LE runtime library in the LNKLSTxx, be sure the library name in the STEPLIB of CNMPROC is correct and uncommented.
15. Update the DSICLD DD statement to add the CNMCLST and SAQNCLST data sets:

```
//DSICLD   DD   DSN=&Q1..&DOMAIN..CNMCLST,DISP=SHR
//         DD   DSN=&SQ1..SAQNCLST,DISP=SHR
//         DD   DSN=&SQ1..CNMCLST,DISP=SHR
//         DD   DSN=&SQ1..CNMSAMP,DISP=SHR
//*        DD   DSN=SYS1.PROCLIB,DISP=SHR
```

    Remove the following DD statements from the DSICLD concatenation:

```
//         DD   DSN=&SQ1..SEZLCLST,DISP=SHR
```

16. Add the SAQNPARM data set ahead of the DSIPARM data set:

```
//DSIPARM  DD   DSN=&Q1..&DOMAIN..DSIPARM,DISP=SHR
//         DD   DSN=&SQ1..SAQNPARM,DISP=SHR
//         DD   DSN=&SQ1..DSIPARM,DISP=SHR
```

17. Remove the following statements from the CNMPNL1 concatenation:

```
//         DD   DSN=&SQ1..SEKGPNL1,DISP=SHR
//* COMMENT THE FOLLOWING LINE OUT IF YOU WILL NOT BE USING AON INFORM
//* POLICY, TIMER COMMAND, CGED COMMAND OR DM COMMAND.
//         DD   DSN=&Q1..&DOMAIN..SEZLPNLU,DISP=SHR
//         DD   DSN=&SQ1..SEZLPNLU,DISP=SHR
:
//* UNCOMMENT THE SEKGPNL2 DEFINITION STATEMENT FOR A JAPANESE
//* SYSTEM WITH RODM
//*         DD   DSN=&SQ1..SEKGPNL2,DISP=SHR
```

    Update the CNMPNL1 concatenation in the following way:

```
//CNMPNL1  DD   DSN=&Q1..&DOMAIN..CNMPNL1,DISP=SHR
//* JAPANESE ONLINE HELP DATASET (PANELS)
//*        DD   DSN=&SQ1..SCNMPNL2,DISP=SHR
//* ENGLISH ONLINE HELP DATASET (PANELS)
//         DD   DSN=&SQ1..CNMPNL1,DISP=SHR
```

18. Add the following TCP connection VSAM databases:

```
//DSITCONP DD   DSN=&VQ1..&DOMAIN..DSITCONP,
//         DISP=SHR,AMP='AMORG'
//DSITCONS DD   DSN=&VQ1..&DOMAIN..DSITCONS,
//         DISP=SHR,AMP='AMORG'
```

19. Add the following data sets to collect distributed DVIPA statistics:

```
//CNMDVIPP DD   DSN=&TQ1..&DOMAIN..CNMDVIPP,DISP=SHR
//CNMDVIPS DD   DSN=&TQ1..&DOMAIN..CNMDVIPS,DISP=SHR
```

20. Update the EZLSTAT DD statement:

```
//*EZLSTAT  DD   DSN=&VQ1..&DOMAIN..STATS,
//*         DISP=SHR,AMP='AMORG,BUFNI=10,BUFND=5'
```

21. Update the EZLPSWD DD statement:

```
//*EZLPSWD  DD   DSN=&VQ1..&DOMAIN..PASSWORD,
//*         DISP=SHR,AMP='AMORG,BUFNI=10,BUFND=5'
```

22. Update the AON log DD statements:

```
//*EZLLOGP  DD   DSN=&VQ1..&DOMAIN..LOGP,
//*         DISP=SHR,AMP='AMORG,BUFNI=10,BUFND=5'
//*EZLLOGS  DD   DSN=&VQ1..&DOMAIN..LOGS,
//*         DISP=SHR,AMP='AMORG,BUFNI=10,BUFND=5'
```

23. Add the following TCP/IP translate data set information and update the statement as needed for your installation:

```
//*
//*****************************************************************
//* If you are using the TCP/IP translate data set TCPXLBIN,
//* specify the appropriate data set name and uncomment the
//* following DD statement to prevent dynamic allocation
//* messages from being issued each time the data set is needed.
//*
//*CNMXLBIN  DD  DISP=SHR,DSN=datasetprefix.STANDARD.TCPXLBIN
//*
//* For more information please see your IP Configuration Guide.
```

CNMPSSI (CNMSJ010)

CNMPSSI (CNMSJ010) starts the NetView subsystem address space.

Make the following changes to CNMPSSI in your PROCLIB:

1. Ensure that the high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. The MBUF, CBUF, DSIG, MSGIFAC, and PFXREG keywords are no longer used and their values are ignored. For migration purposes, these keywords must not be removed.
3. Add the following statements after the P4000BUF parameter to set the route code. If you add these statements, add a comma after the P4000BUF=0 statement.

```
//       ROUTECDE=1           ** Route code to be used for WTOs issued
//*                           **  by the SSI address space.  Messages
//*                           **  that may be issued before this parm
//*                           **  is processed will use route code 1
//*                           **  regardless of the value set here.
```

4. Add the &ROUTECDE variable to the NetView EXEC statement, as shown:

```
//NETVIEW  EXEC PGM=&PROG,TIME=1440,REGION=&REG.K,
//         PARM=(&MBUF,&CBUF,'&DSIG','&MSGIFAC','&PPIOPT','&ARM',
//          '&PFXREG',&P256BUF,&P4000BUF,&ROUTECDE),DPRTY=(13,13)
```

Note that the &MBUF, &CBUF, &DSIG, &MSGIFAC, and &PFXREG values are ignored.

CNMSIHSA

The CNMSIHSA automation table sample is enhanced. This sample provides examples on how to automate messages and alerts in order to send message and alert data to the various Event/Automation Service adapters:

- Message adapter
- Confirmed message adapter
- Alert adapter
- Confirmed alert adapter

- Alert-to-trap adapter

CNMSTYLE

The CNMSTYLE member in the DSIPARM data set is used during NetView initialization. Make any changes to CNMSTYLE statements in the CNMSTUSR member for system-wide defaults or the C*xx*STGEN member for enterprise-wide defaults. For information about changing CNMSTYLE statements, see *IBM Tivoli NetView for z/OS Installation: Getting Started*. The CNMSTYLE member is designed to simplify the NetView initialization process.

Note:

- There are significant differences in the CNMSTYLE statements that were added or changed since the NetView V1R4 release. The default TOWER statement in the CNMSTYLE member shows towers available for the NetView V6R2M1 program:

```
    TOWER = *SA *AON *MSM *Graphics NPDA NLDM TCPIPCOLLECT
        *AMI *DVIPA *TEMA *IPMGT *NVSOA DISCOVERY
```

- You can use MODIFY.TOWER statements in either of the CNMSTUSR or CxxSTGEN members to effect needed changes. (See MODIFY.TOWER in *IBM Tivoli NetView for z/OS Administration Reference*.) For example, you can activate AON and its TCP subtower by coding this statement:

```
MODIFY.TOWER.sortkey = +AON +AON.TCP
```

- Add MODIFY.TOWER statements as needed when you are ready to customize the NetView program to activate more functions.

You can use the CNMSJMIG sample job in the NETVIEW.V621USER.INSTALL data set to migrate initialization members from prior releases (including the CNME1034 command list and some DSIPARM members) to the CNMSTUSR member. For more information, see Appendix F, “Migrating to the CNMSTYLE and CNMCMD Members,” on page 211.

Table 16 on page 40 lists the towers and subtowers that were added.

Table 16. Towers and subtowers that were added

Tower	Subtowers	Description
AON	TCP (IDS[1])	Enables Intrusion Detection Services (IDS) support
DISCOVERY	• INTERFACES (HIPERSOCKETS, OSA) • TELNET	Enables the discovery of the following kinds of resources: • Central processor complex (CPC) • Channel subsystem identifier • Logical partition (LPAR) • Sysplex • Coupling facility • z/OS image • TCP/IP stack • TCP/IP subplex • IP interfaces • NetView applications • Telnet servers and ports • Open Systems Adapter (OSA) channels and ports • HiperSockets adapter

Table 16. Towers and subtowers that were added (continued)

Tower	Subtowers	Description
DVIPA	• DVCONN • DVROUT • DVTAD	Enables the collection of the following kinds of DVIPA information: • DVIPA definition and status • Distributed DVIPA • DVIPA connections • VIPA routes • Distributed DVIPA connection routing
IPMGT	• ACTMON • IDS	Enables IP management
MSM	ITNM[1]	Enables the IBM Tivoli Network Manager feature
NLDM		Enables the session monitor
NPDA		Enables the hardware monitor
NVSOA		Enables the Web Services Gateway function
TCPIPCOLLECT	• PKTS • TCPCONN	Enables the collection of TCP/IP connection and packet trace data from z/OS Communications Server
TEMA	• CONINACT • CONNACT • DVCONN • DVDEF • DVROUT • DVTAD • HEALTH • HIPERSOCKETS • OSA • SESSACT • SYSPLEX • TELNET	Enables the NetView program to communicate with the Tivoli NetView for z/OS Enterprise Management Agent and also provides data collection for certain functions when the subtowers are enabled.

Note:

1. Only the subtower was added.

Table 17 on page 41 lists the towers and subtowers that were deleted.

Table 17. Towers and subtowers that were deleted

Tower	Subtowers	Description
AON	LAN[1]	LAN automation (AON/LAN)

Table 17. Towers and subtowers that were deleted (continued)		
Tower	**Subtowers**	**Description**
MSM	• ATM[1] • IP[1] • LNM[1] • NTF[1] • NVL[1] • TMR[1]	• ATM feature • IP feature • LAN Network Manager • NetFinity • Novell NetWare • Tivoli Managed Resource feature
Note: 1. Only the subtower was deleted.		

The CNMSTYLE member replaces some of the definition statements in members of the DSIPARM data set and all the initialization performed by the CNME1034 command list.

Table 18. CNMSTYLE Statement Relationship to Older DSIPARM Statements		
CNMSTYLE Statement	**DSIPARM Statement or Command**	**NetView Member**
DB2SEC=RRS	DB2RRS	DSIDMNK
DEFAULTS.*	DEFAULTS	CNME1034
FLC_DEF_NETW_VIEW	DEF_NETW_VIEW	FLCSAINP
FLC_EXCEPTION_VIEW_FILE	EXCEPTION_VIEW_FILE	FLCSAINP
FLC_RODMINT	RODMINT	FLCSAINP
FLC_RODMNAME	RODMNAME	FLCSAINP
FLC_RODMRETRY	RODMRETRY	FLCSAINP
FLC_RUNCMDRETRY	RUNCMDRETRY	FLCSAINP
FLC_TCPNAME	TCPNAME	FLCSAINP
FLC_TN3270_FILE	TN3270_FILE	FLCSAINP
GHB.TCPANAME	TCPANAME	DUIIGHB
IPLOG	*parameters*	DSIILGCF
LOADEXIT	LOADEXIT	DSIDMNK
LUC.*	*parameters*	DSILUCTD
MSMdefault	DEF_AUTOTASK	FLCSAINP
MVSPARM.*	MVSPARM	DSIDMNK
NLDM.*	*parameters*	• AAUPRMLP • DSIAMLTD
NPDA.ALERTFWD	ALERTFWD	DSIDMNK
REXEC.*	*parameters*	DSIREXCF
RRD	RRD	DSIDMNK
RSH.*	*parameters*	DSIRSHCF

Table 18. CNMSTYLE Statement Relationship to Older DSIPARM Statements (continued)		
CNMSTYLE Statement	**DSIPARM Statement or Command**	**NetView Member**
RTT.*	*parameters*	DSIRTTTD
SECOPTS.*	OPTIONS	DSIDMNK
TAMEL.*	*parameters*	DUIFPMEM
transTbl	TRANSTBL	DSIDMNK
VTAMCP.USE	VTAMCP	DSIDMNK
WEB.*	*parameters*	DSIWBMEM

The CNMSTYLE member contains descriptive comments about the types of statements that are included. Read the comments and review the defaults.

Because the NetView 3270 management console was removed, the TASK.DSITCPIP.INIT statement was deleted.

The following defaults changed:

Table 19. CNMSTYLE statements		
Statement	**Prior default**	**Current® default**
ASSIGN	STATGRP specifies: • NETOP1 • NETOP2	STATGRP specifies: • NETOP1 • NETOP2 • AUTO1 OPERGRP specifies: • OPER1 • OPER2 • OPER3 • OPER4 • OPER5 • OPER6
DEFAULTS command keywords	CMD=HIGH	CMD=LOW
	STRTSERV=SBMTJOB	STRTSERV=STRTPROC
HLLENV	Commented out in CNME1034	Initializes two environments each for PL/I and C in the CNMSTYLE member.
HLLENV keywords	PHEAP=4096	PHEAP=131072
	PSTACK=4096	PSTACK=131072
LOGONPW	CMDMDL commented out	CMDDEF enabled

Table 19. CNMSTYLE statements (continued)

Statement	Prior default	Current® default
MEMSTOR	Commented out in CNME1034	Enabled
	No predefined include or exclude lists	Predefined include list: • CNMPNL1.CNMKWIND • CNMPNL1.CNMBROWS • DSIOPEN.CNMKEYS • DSICLD.CNME1505 • DSICLD.CNME1096 Predefined exclude list: • DSIPARM.DSIOPF • DSIPARM.DSIOPFU • DSILIST.* • *.USERMEM
RMTINIT.IP	No	The initial setting in the CNMSTYLE member changed to YES. By default, not all NetView functions have RMTCMD for TCP/IP enabled. There might be additional configuration that is required for these functions. If the RMTCMD command on two NetView programs are to use TCP/IP and both are using the same TCP/IP stack, specify different ports to avoid a conflict. If you do not specify a RMTINIT.IP statement, the default value remains as N0.
Trace (NCCF)	Off	On, MODE=INT If you notice a significant increase in processor utilization during initialization, you might want to change the TRACE options or start the trace after NetView initialization is complete.

Table 19. CNMSTYLE statements (continued)		
Statement	**Prior default**	**Current® default**
Tasks started automatically: • &DOMAIN.LUC • &DOMAIN.VMT • AAUTCNMI • AAUTSKLP • BNJDSERV • BNJMNPDA • DSIAMLUT • DSIATOPT • DSICRTR • DSIGDS • DSIKREM • DSIQTSK • DSIROVS • DSITRACE	CNME1034 included a STARTCNM ALL command that started these tasks.	The CNMSTYLE member includes these tasks as INIT=N, indicating that they no longer start automatically.

CNMSTYLE statement notes:

1. For the SECOPTS.CMDAUTH statement, the NetView program supports the SCOPE option in migration mode only. If you currently use scope of commands security definitions (CMDCLASS, KEYCLASS, VALCLASS statements in DSICMD, with matching OPCLASS statements), you can convert them into equivalent command authorization table statements using the SECMIGR command. If you initialize the NetView program using the SCOPE option, the SECMIGR command is used to convert existing scope security definitions. The converted table is written to the first DSIPARM data set and is put into effect. Make sure the PPT has authority to write the converted command authorization table to the DSIPARM data set.
2. The SSIname statement is no longer used; if specified, it is ignored.

   The name of the subsystem router task is CNMCSSIR. Starting with NetView V6R1, changing the task name of the subsystem router has no utility and is not supported.

For information about new, changed, or deleted CNMSTYLE statements, see “CNMSTNXT” on page 45.

CNMSTACT

The CNMSTACT member includes the CNMSTAAL member if the IBM Tivoli NetView Monitoring for GDPS product is installed. The CNMSTACT member is used for the GDPS Active/Active Continuous Availability solution.

CNMSTIDS

The CNMSTIDS include member contains Intrusion Detection Services statements. The z/OS Communications Server Version 1 Release 11 Intrusion Detection Services probes were added.

CNMSTNXT

The CNMSTNXT member contains statements that are new, changed, or deleted. Statements are grouped according to version and release level of the NetView product. Review the statements in the CNMSTNXT member and update the CNMSTUSR or C*xx*STGEN member as necessary.

If you want information about...	Refer to...
CNMSTYLE statements	*IBM Tivoli NetView for z/OS Administration Reference*

DSIAMLTD

The DSIAMLTD member in the DSIPARM data set contains initialization statements for the session monitor. It includes logic to extract initialization values from the CNMSTYLE member. Use the v6.2.1 DSIAMLTD member, and update the NLDM statements in the CNMSTUSR or C*xx*STGEN member to reflect the values specified in the DSIAMLTD member on the system from which you are migrating. Do not modify the DATA REXX version of the DSIAMLTD member.

DSICCDEF

If you made changes to DSICCDEF, merge your current copy of DSICCDEF with the sample shipped with V6R2M1. Note that the VTAM DISPLAY and MODIFY commands do not need CCDEF support.

DSICMD

The command definition statements in the DSICMD member were replaced by new command definitions in the CNMCMD member. NetView initialization continues to read the DSICMDU member for migration purposes. You can use the CNMSJMIG sample job to migrate the DSICMD member to the new CNMCMD format. For more information, see Appendix F, “Migrating to the CNMSTYLE and CNMCMD Members,” on page 211.

If you do not convert your definitions in the DSICMDU member to the new format before NetView initialization, information contained in the DSICMDU member is converted and stored in a NetView KEEP under the PPT for 2 hours. During this time, you can use a NetView PIPE command to retrieve these converted command definitions. The following example shows one way of retrieving these definitions for display:

```
/PPT: PIPE KEEP DSICMDU | CONS
```

You can also use a similar PIPE command to write the converted definitions to the CNMCMDU member of the DSIPARM data set.

Note: Data REXX statements in DSICMDU have already been processed and therefore do not exist in the DSICMDU KEEP.

Command definitions in the DSICMDU member that duplicate command definitions found in the CNMCMSYS or CNMCMENT member are overridden by the latter. Command definitions in the DSICMDU member that duplicate commands in the NetView internal command set are considered to be in error.

To migrate your definitions from the DSICMDU member, complete the following steps:

1. Start NetView in a test environment and note any DSI234I messages for duplicate command definitions.
2. Retrieve the migrated DSICMDU command definitions from the NetView KEEP and store them in CNMCMDU, for example:

   ```
   /PPT: PIPE KEEP DSICMDU | QSAM (DSN) user.dsiparm(CNMCMDU)
   ```

   where *user.dsiparm* specifies the data set in which to place the migrated command definition statements.

   Note: You can also use sample CNMSJMIG to migrate DSICMDU definitions before you start NetView V6R2M1.
3. Update the CNMCMDU definitions to change any duplicate command definitions noted during NetView initialization.

Make all changes to command definitions in CNMCMSYS or CNMCMENT using CMDDEF statements in CNMCMDU.

DSICMENT

The DSICMENT member of DSIPARM was replaced by CNMCMENT. You can remove SEC=BY from some AON command definition statements. For a list of these statements, refer to Appendix E, "AON CMDDEF Statements Not Requiring SEC=BY," on page 207.

DSICMSYS

The DSICMSYS member in the DSIPARM data set was replaced by the CNMCMSYS member.

The CNMCMSYS member does not contain a CMDMDL statement for the CNME1500 command list. As a result, the READYRMT alias (command) is no longer defined. The CNME1500 member is still available.

EZLCMD

The EZLCMD member of DSIPARM was replaced by EZLCMENT. You can remove SEC=BY from some AON command definition statements. For a list of these statements, refer to Appendix E, "AON CMDDEF Statements Not Requiring SEC=BY," on page 207.

FKXCMD

DSIPARM member FKXCMD was replaced by FKXCMENT. You can remove SEC=BY from some AON command definition statements. For a list of these statements, refer to Appendix E, "AON CMDDEF Statements Not Requiring SEC=BY," on page 207.

DSICTMOD

DSICTMOD is the NetView constants module that can be updated using sample job CNMS0055. Use the DSICTMOD module shipped with V6R2M1. If you updated CNMS0055 for your current release, merge those changes into the V6R2M1 CNMS0055 sample, submit it to assemble, and link edit your changes into the DSICTMOD module.

The default number of common global variables has increased from 300 to 5000 variables.

DSIDMN

The parameters set in the DSIDMN member were migrated to the CNMSTYLE member. If you do not remove existing statements, they are ignored during DSIDMN processing.

User-defined TASK statements are still supported. You can also add these statements to the CNMSTYLE member. For information about the CNMSTYLE TASK statements, see *IBM Tivoli NetView for z/OS Administration Reference*.

EXCMDSEC is no longer supported. Review your keyword and value authorizations for the EXCMD command to make sure that you maintain your preferred security. For more information, refer to *IBM Tivoli NetView for z/OS Security Reference*.

Note: Statements that were in the DSIDMNK member are now in the CNMSTYLE member. The DSIDMNK member was removed.

DSIIFR

As of NetView V6R1, the IFRAUWWI field is removed from the DSIIFR macro. To retrieve or test the WTO ID, use the IFRAUWID field instead. The IFRNLYES flag no longer has any use. Remove references to this bit.

DSIILGCF

The DSIILGCF member in the DSIPARM data set defines the initialization values for the IP log. It includes logic to extract initialization values from the CNMSTYLE member. Update IPLOG statements in the CNMSTUSR or C*xx*STGEN member to reflect the values previously specified in the DSIILGCF member.

DSILUCTD

The DSILUCTD member in the DSIPARM data set contains initialization statements for the CNM data transfer task. It includes logic to extract initialization values from the CNMSTYL member. Update LUC statements in the CNMSTUSR or C*xx*STGEN member to reflect the values specified in DSILUCTD on the system from which you are migrating.

DSIOPF

Starting with V6R2, the DSIOPF member has a new structure:

Table 20. DSIOPF structure

Include member	Description
DSIOPFAU	Includes existing AUTO1 and AUTO2 autotasks
DSIOPFEX	Includes sample operator definitions. All sample definitions in the DSIOPFEX member can be modified or deleted without affecting the operation of the NetView program.
DSIOPFIX	Includes operator definitions that cannot be changed. See the comments in the DSIOPFIX member to update necessary passwords.
DSIOPFST	Includes operator definitions for which the operator ID can be changed. The DSIOPFST member includes the following additional members associated with the specified towers: • EZLOPF (AON) • FKVOPF (AON.SNA) • FKXOPF (AON.TCP) • FKXOPFIP (IPMGT) • FLCSOPF (MSM)
DSIOPFU	Includes customer-defined operator definitions

If you modified the V1R4 DSIOPF member and you want to use the new structure, copy any changes that you made into the appropriate V6R2M1 member.

%INCLUDE Members

Usage notes:

1. Data REXX logic was added to conditionally define operator definitions based on the level of the NetView program installed, the towers that are enabled by the CNMSTYLE member, or both.
2. You can add Data REXX logic to conditionally define operator definitions in DSIOPFU. Data REXX files must have either `/*%DATA*/` or `/*%LOGIC*/` as the first statement. Comments can follow on the same or subsequent lines. A blank in the first column indicates a continuation of the previous statement. For more information about Data REXX, refer to *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.
3. The FKXOPFIP member is used when the IPMGT tower is enabled. This member is not used if the AON component is enabled. Because of this, operator definitions duplicate those in the EZLOPF and FKXOPF members.

Added Operators

The following operator definitions were added:

Table 21. Added operator definitions

Operator definition	Description	%INCLUDE member
AUTIPM*x* OPERATOR PASSWORD=AUTIPM*x* PROFILEN EZLPRFAO	IP management services autotasks	FKXOPFIP

Deleted Operators

The following operator definitions were deleted:

Table 22. Deleted operator definitions for V1R4

Operator definition	%INCLUDE member
AUTOATMA OPERATOR PASSWORD=AUTOATMA PROFILEN FLCSPRFB AUTOATM1 OPERATOR PASSWORD=AUTOATM1 PROFILEN FLCSPRFB AUTOEWA OPERATOR PASSWORD=AUTOEWA PROFILEN FLCSPRFB AUTOEW1 OPERATOR PASSWORD=AUTOEW1 PROFILEN FLCSPRFB AUTONWA OPERATOR PASSWORD=AUTONWA PROFILEN FLCSPRFB AUTONW1 OPERATOR PASSWORD=AUTONW1 PROFILEN FLCSPRFB FLBGMMGR OPERATOR PASSWORD=FLBGMMGR PROFILEN FLBGMMPR	FKWOPF

DSIREXCF

The DSIREXCF member in the DSIPARM data set defines the initialization values for the REXEC Server. It includes logic to extract initialization values from the CNMSTYLE member. Update REXEC statements in the CNMSTUSR or C*xx*STGEN member to reflect the values previously specified in the DSIREXCF member. Do not modify the Data REXX version of the DSIREXCF member.

DSIRSHCF

The DSIRSHCF member in the DSIPARM data set defines the initialization values for the RSH Server. It includes logic to extract initialization values from the CNMSTYLE member. Update RSH statements in the CNMSTUSR or C*xx*STGEN member to reflect the values previously specified in the DSIRSHCF member. Do not modify the Data REXX version of the DSIRSHCF member.

DSIRTTTD

The DSIRTTTD member of the DSIPARM data set contains initialization statements for the TCP/IP alert receiver. It includes logic to extract initialization values from the CNMSTYLE member. Update RTT statements in the CNMSTUSR or C*xx*STGEN member to reflect the values that you previously specified in the DSIRTTTD member. Do not modify the Data REXX version of the DSIRTTTD member.

DSIRXPRM

The DSIRXPRM load module contains the REXX initialization parameters that are required to establish a new REXX environment.

Note: If you previously added any REXX initialization parameters to the DSIRXPRM module, delete the previous version of the DSIRXPRM module. As of NetView V6R2, the NetView program is not compatible with previous versions of the DSIRXPRM module.

Define the previously added REXX initialization parameters as follows:

- If you previously added REXX command environments or REXX function package names to the DSIXPRM module, migrate those changes to the CNMSTYLE (CNMSTUSR or C*xx*STGEN) member by using the following CNMSTYLE statements. For more information about these statements, see the *Administration Reference*.
  - REXX.CMDENV.*name*
  - REXX.FUNCPKGLIST.LCL.*name*
  - REXX.FUNCPKGLIST.SYS.*name*
  - REXX.FUNCPKGLIST.USR.*name*
- If you previously added other REXX initialization parameters to the DSIRXPRM module, merge those changes into the v6.2.1 version of the CNMSJM11 sample. Ensure that you deleted the earlier version of the DSIRXPRM module, and then run the CNMSJM11 sample to assemble and link edit your changes into the DSIRXPRM module.

  Note: You must delete the earlier version of the DSIRXPRM module because it was link edited with the RENT attribute whereas the current version is link edited with the REUS attribute.
- If you previously added the system REXX function package for IBM Tivoli System Automation for z/OS to the DSIRXPRM module, drop the modified DSIRXPRM module from your environment. The System Automation INGRXFPG REXX function package is loaded automatically when the SA tower is enabled. If necessary, use the previous migration steps to include other System Automation REXX function packages.

DSISPN

The DSISPN member is now obsolete.

Use the SECMIGR migration tool to convert existing VTAMLST and DSISPN definitions into entries in the NetView span table. The SECMIGR tool creates the span table, converts your existing span of control definitions into span table statements, and loads them into the span table. When you are ready to initialize the NetView program, load the NetView span table by specifying its name on the SECOPTS.SPANAUTH statement in the CNMSTUSR or C*xx*STGEN member. For an example span table, refer to the CNMSPAN2 sample.

DSITBL01

The DSITBL01 automation table is the default NetView automation table and is required by the NetView program. The DSITBL01 automation table provides basic automation statements to respond to messages and management services units (MSUs). If the DSITBL01 automation table is not activated during NetView initialization, the DWO093W warning message is issued by the NetView program.

Some %INCLUDE statements and associated statements to start automation were replaced by entries in the CNMSTYLE member. If you modified the DSITBL01 member, merge your changes with the V6R2M1 DSITBL01 member. After making changes, renumber the NetView automation table. When the NetView automation table processes a message and finds a match that results in a command or command list being run, it writes the CNM493I message to the NetView log file. The CNM493I message contains the line number of the automation table entry matched.

Several messages that are supplied with the NetView product are changed with the V6R2M1 program. These messages are listed in the appendixes. Review the list and make any necessary changes to your automation table.

You can add your own automation table by using the AUTOCMD statement in the CNMSTUSR or C*xx*STGEN member. Place your automation table before the DSITBL01 automation table and code CONTINUE(YES) on any local customization to make sure that messages flow to the DSITBL01 automation table. For more information on the AUTOCMD statement, refer to the *IBM Tivoli NetView for z/OS Administration Reference*.

Message automation is used to update information when some discovery manager resources start and stop. Add the CNMSEPTL automation sample member for these events. The CNMSEPTL member is included when the DISCOVERY tower is enabled.

```
* Load local resource discovery table
%>IF tower('DISCOVERY') THEN
%INCLUDE CNMSEPTL
```

For DVIPA automation, add the following statements:

```
* Include the following DVIPA samples:
* CNMSDVDS - Automation for forwarding information to the master NetView
* CNMSDVTP - Samples for automating z/OS Communications Server SNMP
*            DVIPA traps
* CNMSDVCG - Samples for automating z/OS Communications Server DVIPA
*            configuration updates
* CNMSDVEV - Automation table memmber for DVIPA SMF runtime updates that
*            is included when the DVIPA tower is enabled.
* CNMSSMON - Samples for automating z/OS Communications Server
*            sysplex autonomics messages
%>IF tower('DVIPA') THEN
%>do;
     %INCLUDE CNMSDVDS
     %INCLUDE CNMSDVTP
     %INCLUDE CNMSDVCG
     %INCLUDE CNMSDVEV
     %INCLUDE CNMSSMON
%>end;
```

For XCF sysplex support, add the following statements:

```
** Load statements that relate to the z/OS sysplex master function.
%INCLUDE CNMSXCFA
```

For COLLCTL command automation, add the following statements:

```
*************** COLLCTL command AUTOMATION ****************************
%INCLUDE CNMSDCA
```

For SMF type 30 record automation using the CNMSMF3E sample, add the following statements:

```
*************** SMF 30 RECORD AUTOMATION ******************************
IF MSGID = 'BNH874I' THEN
     EXEC(CMD('CNMSMF3A')) NETLOG(Y) SYSLOG(N);
```

For more information about automating the SMF type 30 records, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

DSITCPCF

The DSITCPCF member in the DSIPARM data set defines the initialization values for the DSITCPIP task. Do not modify the Data REXX version of the DSITCPCF member. Because the NetView 3270 management console was removed, the MCON statements were removed from the DSITCPCF member.

DSITCPRF

The DSITCPRF member in the DSIPRF data set defines TCP/IP operator security profiles. The WEB_SERVER statement was added to define the encryption keys for HTTP server sessions:

```
 WEB_SERVER: default default
```

The operator ID and ANY_OTHER statements were removed.

DSIWBMEM

The DSIWBMEM member in the DSIPARM data set defines initialization values for the Web server. It now includes logic to extract initialization values from the CNMSTYLE member. Update the WEB statements in

the CNMSTUSR or C*xx*STGEN member to reflect the values previously specified in the DSIWBMEM member. Do not modify the Data REXX version of the DSIWBMEM member.

DSIZVLSR

The DSIZVLSR module defines the buffer pools to be used with the VSAM LSR and DSR performance options. Update the DSIZVLSR module by using the CNMSJM01 sample job. Use the DSIZVLSR module shipped with V6R2M1. If you previously updated the CNMSJM01 job, merge those changes into the V6R2M1 CNMSJM01 job and run it to assemble and link edit your changes into the DSIZVLSR module.

The following changes were made to the DSIZVLSR module:

- The default STRNO value was increased from 30 to 40.
- New buffers were added to the index and data buffer pools for the new VSAM clusters allocated for the DSITCONT task to support the TCPCONN command.
- Removed TARA support (BNJDSE36).

DUIFPMEM

The DUIFPMEM member in the DSIPARM data set contains TCP/IP initialization statements for the CNMTAMEL task. It includes logic to extract initialization values from the CNMSTYLE member. Update TAMEL statements in the CNMSTUSR or C*xx*STGEN member to reflect the values that you previously specified in the DUIFPMEM member. Do not modify the DATA REXX version of the DUIFPMEM member.

DUIIGHB

The DUIIGHB member in the DSIPARM data set contains initialization statements for the DUIDGHB task. It includes logic to extract initialization values from the CNMSTYLE member. Update the GHB statements in the CNMSTUSR or C*xx*STGEN member to reflect the values that you previously specified in the DUIIGHB member. Do not modify the Data REXX version of the DUIIGHB member.

FKXCFG01

The FKXCFG01 member in the DSIPARM data set contains configuration information for the AON component.

TCP390 policy information was moved from the FKXCFG01 member to the CNMPOLCY member. Move any TCP390 statements in your V1R4 FKXCFG01 member to the V6R2M1 CNMPOLCY member. Review your other AON configuration members (for example the EZLCFG01 member and the FKVCFG01 member) and any additional members that you included to find other TCP390 statements. Move all the TCP390 statements to the CNMPOLCY member.

FLBSYSDA

The FLBSYSDA member in the DSIPARM data set is the initialization member for the APPN accounting manager. This member was removed.

FLCSAINP

The FLCSAINP member is obsolete.

In V1R4, The FLCSAINP member was the sample initialization file for the MultiSystem Manager. You can modify and rename the FLCSAINP member to either FLCAINP or another unique name. In V6R2M1, the FLCAINP member is used to specify the GETTOPO statements that you want to run during MultiSystem Manager initialization. All other MultiSystem Manager initialization definitions were migrated to the CNMSTYLE member.

For V6R2M1, use your existing FLCAINP (or other uniquely named member) and make the following updates:

1. If you made changes to initialization definitions (other than GETTOPO statements), migrate the changes to the CNMSTUSR or C*xx*STGEN member.

2. Delete the definitions (non-GETTOPO statements) that you migrated to the CNMSTYLE member.
3. Delete any GETTOPO ATM*xxx* statements.
4. Delete any GETTOPO LNM*xxx* statements.
5. Delete any GETTOPO NETF*xxx* statements.
6. Delete any GETTOPO NWCP*xxx* statements.
7. Delete any START_DISCOVERY statements.

Refer to *IBM Tivoli NetView for z/OS Installation: Configuring Graphical Components* for additional information about the FLCAINP member.

RODM Address Space

The samples in this section list changes for the RODM address space.

EKGLOADP

EKGLOADP is the sample RODM load procedure JCL.

Make the following changes to EKGLOADP:

1. For NetView data sets, ensure your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. To set the ROUTECODE parameter, add the following statement after the COPIES parameter in the PROC statement. When you add this parameter, add a comma after the COPIES=1 parameter.

```
//           ROUTECDE=1
```

3. Add the &ROUTECDE variable to the NetView EXEC statement, as shown:

```
//LOADRODM EXEC PGM=EKGLOTLM,
//         PARM=('OPERATION=&OPER,LOAD=&LOAD,NAME=&RODMNAME',
// 'LISTLEVEL=&LISTL,SEVERITY=&SEVERITY,ROUTECODE=&ROUTECDE')
```

   As a result of the addition of the ROUTECODE parameter, you also need to update the JCL procedure EKGLLOAD to specify &ROUTECDE when calling EKGLOADP.
4. If you are using the RODM component and are migrating from a previous release, remove the following statement from the STEPLIB data set concatenation:

```
//STEPLIB  DD DSN=&SQ1..SEKGMOD1,DISP=SHR
```

5. Add the following DD statement to the STEPLIB data set concatenation:

```
//STEPLIB  DD DSN=&SQ1..CNMLINK,DISP=SHR
```

6. If you are using the RODM component and are migrating from a previous release, change the following statement from:

```
//EKGLUTB  DD DSN=&SQ1..SEKGLUTB,DISP=SHR
```

   to

```
//EKGLUTB  DD DSN=&SQ1..CNMSAMP,DISP=SHR
```

7. If you are using the RODM component and are migrating from a previous release, change the following statement from:

```
//EKGIN2  DD DSN=&SQ1..SEKGCAS1,DISP=SHR
```

   to

```
//EKGIN2  DD DSN=&SQ1..CNMSAMP,DISP=SHR
```

EKGSI101

EKGSI101 is used for allocating the RODM log and checkpoint databases. This sample is used by sample job CNMSJ004.

If you allocated RODM checkpoint data sets for fewer than the maximum number of windows supported by RODM and the estimated number of objects that you expect to store in the RODM data cache exceeds the previous maximum supported number (approximately 524,000 objects), consider increasing the size of the RODM checkpoint databases.

EKGXRODM

EKGXRODM is the RODM start procedure.

Make the following changes to EKGXRODM:

1. For NetView data sets, ensure your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.
3. Add the following ROUTECDE parameter after the SUBSYM parameter:

```
//        SUBSYM=*SUBSYM,        ** SYMBOL SUBSTITUTION OPTION
//        ROUTECDE=1             ** ROUTE CODE FOR WTO/WTOR
```

4. Add the &ROUTECDE variable to the START EXEC statement, as shown:

```
//START    EXEC PGM=EKGTC000,REGION=0K,TIME=1440,
// PARM='&TYPE,&NAME,&INIT,&CLRSSB,&CUST,&ARM,&SUBSYM,&ROUTECDE'
```

5. If you are using the RODM component and are migrating from a previous release, replace the following statements in the STEPLIB data set concatenation:

```
//         DD DSN=&SQ1..SEKGMOD1,DISP=SHR
//         DD DSN=&SQ1..SEKGMOD2,DISP=SHR
```

   with

```
//         DD DSN=&SQ1..CNMLINK,DISP=SHR
```

6. The EKGCUST DD statement has changed to include a user DSIPARM data set:

```
//EKGCUST  DD DSN=&Q1..CNM01.DSIPARM,DISP=SHR
//         DD DSN=&SQ1..CNMSAMP,DISP=SHR
```

7. If you are using the RODM component and are migrating from a previous release, change the following statement from:

```
//EKGLUTB  DD DSN=&SQ1..SEKGLUTB,DISP=SHR
```

   to

```
//EKGLUTB  DD DSN=&SQ1..CNMSAMP,DISP=SHR
```

8. If you are using the RODM component and are migrating from a previous release, change the following statement from:

```
//EKGIN1  DD DSN=&SQ1..SEKGSMP1(EKGIN1),DISP=SHR
```

   to

```
//EKGIN1  DD DSN=&SQ1..CNMSAMP(EKGIN1),DISP=SHR
```

9. If you are using the RODM component and are migrating from a previous release, change the following statement from:

```
//EKGIN2  DD DSN=&SQ1..SEKGCAS1,DISP=SHR
```

   to

```
//EKGIN2  DD DSN=&SQ1..CNMSAMP,DISP=SHR
```

10. If you have not installed the Language Environment for OS/390 runtime library in LNKLST*xx* or PROG*xx*, be sure the library name in the STEPLIB of EKGXRODM is correct and uncommented. Remove DD statements for PL/I or C/C++ runtime libraries because these libraries are no longer being used.

GMFHS Address Space

The samples in this section list changes for the GMFHS address space.

CNMGMFHS (CNMSJH10)

CNMGMFHS (CNMSJH10) is the GMFHS start procedure.

Make the following changes to CNMGMFHS:

1. For NetView data sets, ensure your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.
3. Add the following ROUTECDE parameter after the SUBSYM parameter:

```
//             SUBSYM=*SUBSYM, ** SYMBOL SUBSTITUTION
//             ROUTECDE=1    ** ROUTE CODE FOR ALL WTO'S
```

4. Add the &ROUTECDE variable to the STEP1 EXEC statement, as shown:

```
//STEP1    EXEC PGM=&PROG,REGION=&REG,TIME=1440,
// PARM='&AGGRST,RESWS=&RESWS,DOMAIN=&DOMAIN,ARM=&ARM,SUBSYM=&SUBSYM,  *
//              ROUTECDE=&ROUTECDE'
```

5. If you are using the RODM component and are migrating from a previous release, remove the following statement:

```
//STEPLIB  DD DSN=&SQ1..SEKGMOD1,DISP=SHR
```

6. If you are using the RODM component and are migrating from a previous release, change the following statement from:

```
//EKGLUTB  DD DSN=&SQ1..SEKGLUTB,DISP=SHR
```

   to

```
//EKGLUTB  DD DSN=&SQ1..CNMSAMP,DISP=SHR
```

CNMSJH12

CNMSJH12 is the sample GMFHS/SNA Topology Manager data model load job. Because of the number of changes, use the new sample job.

DUIGINIT

DUIGINIT is the initialization member for GMFHS. It contains the initialization statements for the GMFHS host main task. These statements are system-controlling constants that are read when GMFHS is

initialized. You can use symbols in DUIGINIT if symbolic substitution is enabled on your system. Ensure that the symbols are defined in member IEASYMxx of SYS1.PARMLIB.

The DOMAIN statement was commented out in the default DUIGINIT member. The preferred approach is to use the DOMAIN symbolic variable in the GMFHS start procedure (CNMGMFHS). If the default values that are provided in the DUIGINIT member that is supplied by the NetView product are acceptable for your environment, consider using the default DUIGINIT member.

Event/Automation Service Address Space

The sample in this section lists changes for the Event/Automation Service address space.

IHSAECDS

The IHSAECDS member in the SCNMUXCL data set contains class definition statements that are used by the event receiver task (EVENTRCV) of the Event/Automation Service (E/AS) to map inbound Event Integration Facility (EIF) events to alerts or to resolve Network Management Vector Transports (NMVTs).

IHSAEVNT

The IHSAEVNT sample starts the Event/Automation Service address space. Make the following changes to the IHSAEVNT member in your PROCLIB:

1. Add the following comments:

```
//*  4.  There are additional keywords and values which may be
//*      specified in the PARM string, which a) are not in the
//*      style of a UNIX System Services shell command parameter and
//*      b) do not have procedure keyword definitions in this sample
//*      procedure.  They are described as follows.
//*
//*      CMSGCFG=value
//*
//*        CMSGCFG provides the name of a member of the IHSSMP3 file
//*        containing configuration parameters for the confirmed
//*        message adapter task, MESSAGEC.  If the value is provided,
//*        it must be a valid partitioned data set member name.
//*        If the keyword is omitted or is given no value, the
//*        default value is IHSANCFG.
//*
//*      CALRTCFG=value
//*
//*        CALRTCFG provides the name of a member of the IHSSMP3 file
//*        containing configuration parameters for the confirmed
//*        alert adapter task, ALERTC.  If the value is provided,
//*        it must be a valid partitioned data set member name.
//*        If the keyword is omitted or is given no value, the
//*        default value is IHSABCFG.
//*
```

2. For NetView data sets, ensure your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
3. Remove the DD statement for the C/C++ runtime library because this library is no longer used.
4. Add the following ROUTECDE parameter after the OUTSIZE parameter:

```
//            ROUTECDE=1,    ** ROUTE CODE FOR ALL WTO'S
```

5. The SCNMUXLK data set was replaced with the CNMLINK data set. See Table 23 on page 56 for an example on how to change the STEPLIB DD statement.

Table 23. STEPLIB DD statement

Existing statement:

```
//STEPLIB  DD DSN=NETVIEW.V1R4M0.SCNMUXLK,DISP=SHR
```

Table 23. STEPLIB DD statement (continued)

Updated statement:

```
//STEPLIB  DD DSN=NETVIEW.V6R2M1.CNMLINK,DISP=SHR
```

6. The SCNMUXMS data set that was specified on the IHSMSG1 DD statement was replaced with the SDUIMSG1 data set. See Table 24 on page 57 for an example on how to change the IHSMSG1 DD statement.

Table 24. IHSMSG1 DD statement

Existing statement:

```
//IHSMSG1  DD DSN=NETVIEW.V1R4M0.SCNMUXMS,DISP=SHR
```

Updated statement:

```
//IHSMSG1  DD DSN=NETVIEW.V6R2M1.SDUIMSG1,DISP=SHR
```

7. Add the following &ROUTECDE variable after the &OUTSIZE variable:

```
INITFILE=&INITFILE OUTSIZE=&OUTSIZE ROUTECDE=&ROUTECDE
```

8. Add the following output data sets:

```
//*   EAS OUTPUT DATASETS
//IHSN     DD SYSOUT=A
//IHSB     DD SYSOUT=A
⋮
//IHSNS    DD SYSOUT=A
//IHSBS    DD SYSOUT=A
⋮
//IHSNSTD  DD SYSOUT=A
//IHSBSTD  DD SYSOUT=A
```

IHSAINIT

The IHSAINIT sample is the initialization file for the Event/Automation Service. Information was added to this sample to support the confirmed alert and message adapters. The NOSTART statements are included to prevent the Event/Automation Service from automatically starting the confirmed alert adapter and confirmed message adapter services.

```
# The following keywords are supported:
#   CMSGCFG  - Specifies the confirmed message adapter configuration file
#   CALRTCFG - Specifies the confirmed alert adapter configuration file
#
# The syntax for each keyword follows:
#   CMSGCFG=confirm_message_config_file
#   CALRTCFG=confirm_alert_config_file
#   TRACE TASK=task_designator LEVEL=trace_level IP=on_or_off
#
#     confirm_message_config_file - Specifies the name of the confirmed message
#                          adapter configuration file.  If not prefaced with the
#                          escape character (\), this is the name of a member of
#                          the IHSSMP3 file.  Otherwise, this is a complete file
#                          name.  If E/AS is an MVS started task, the default
#                          value of this keyword is IHSANCFG.  If E/AS is started
#                          in a UNIX System Services shell, the default value is
#                          /etc/netview/confirm_message_adpt.conf.
#
#     confirm_alert_config_file - Specifies the name of the confirmed alert
#                          adapter configuration file.  If not prefaced with the
#                          escape character (\), this is the name of a member of
#                          the IHSSMP3 file.  Otherwise, this is a complete file
#                          name.  If E/AS is an MVS started task, the default
#                          value of this keyword is IHSABCFG.  If E/AS is started
#                          in a UNIX System Services shell, the default value is
#                          /etc/netview/confirm_alert_adpt.conf.
#     output_destination - specifies the location where the trace and error
```

```
#                          messages will be logged. The values are:
#     SYSOUT - Specifies a system output file.  When started by an MVS startup
#              procedure, the primary and secondary files for each task are:
#
#                  IHSN and IHSNS for the MESSAGEC task
#                  IHSB and IHSBS for the ALERTC task
#
#                When started under UNIX System Services, the default primary and
#                secondary file names for each task are:
#
#                  cmessagep.err and cmessages.err for the MESSAGEC task
#                  calertp.err and calerts.err for the ALERTC task

#     task_designator - is one of the following:
#       MESSAGEC - Specifies the confirmed message adapter task
#       ALERTC   - Specifies the confirmed alert adapter task

#       Note : CONTROL is not valid on the NOSTART statement.  ALL does not
#              include CONTROL for the NOSTART statement
#
#     on_or_off - is one of the following:
#       ON      - Specifies that data sent or received using TCP/IP
#                 will be traced.  Additional information for the
#                 z/OS UNIX C/C++ socket functions used may appear.
#       OFF     - Specifies that no tracing of data or socket
#                 functions will be done.  This is the default.
#
# Confirmed Message Adapter Configuration File
#CMSGCFG=IHSANCFG
#CMSGCFG=\/etc/netview/confirm_message_adpt.conf
#
# Confirmed Alert Adapter Configuration File
#CALRTCFG=IHSABCFG
#CALRTCFG=\/etc/netview/confirm_alert_adpt.conf
#
# Tasks not started at initialization (example)
NOSTART TASK=MESSAGEC
NOSTART TASK=ALERTC
#
# Confirmed Message Adapter Task
#TRACE TASK=MESSAGEC LEVEL=OFF
#
# Confirmed Alert Adapter Task
#TRACE TASK=ALERTC LEVEL=OFF
```

Additional Considerations

Consider changes to the following functions:

- “1-Byte Console IDs ” on page 58
- “BROWSE Facility” on page 59
- “Data REXX in Parameter Files” on page 59
- “IP Management” on page 60
- “Message Logging” on page 60
- “NetView Resource Manager” on page 60
- “Security Enhancements” on page 60
- “System Symbols in Parameter Files” on page 61
- “Attribute Data for Unsolicited MVS Messages” on page 62
- “UNIX System Services” on page 63

1-Byte Console IDs

With z/OS V1R8, support for 1-byte console IDs was removed. Because of this, the NetView program no longer supports the use of a 1-byte console ID when defining a console to the NetView program. Instead of using a console ID, use a 2- to 8- character console name. For example, use the console name when referencing a specific console in the GETCONID, SETCONID, and AUTOTASK commands and in the AUTOTASK.task.CONSOLE statement in the CNMSTYLE member.

BROWSE Facility

A new DEFAULTS setting called LBHOURLY controls whether the hourly statistics messages CNM154I, CNM155I, and CNM156I are posted to the network log. In previous releases, these hourly statistics messages were posted to the network log automatically, without an option to prevent them from being posted. The default setting for LBHOURLY is NO, as set by the DEFAULTS.LBHOURLY statement in the CNMSTYLE member. To continue receiving these hourly statistics messages in the network log, add a DEFAULTS.LBHOURLY statement to the CNMSTUSR or C*xx*STGEN member and set its value to YES.

Data REXX in Parameter Files

Data REXX allows for REXX-style logic to be coded in NetView data set members. For example, Data REXX allows conditional inclusion of files and the assignment of values to parameters based on settings in the CNMSTYLE member.

The NetView program uses Data REXX in the following parameter files:

- AAUPRMLP
- BNJMBDST
- CNMCMENT
- CNMNEWS
- CNMSCAT2
- CNMSTASK
- CNMSTTWR
- C*xx*STGEN
- CNMSTUSR
- DSIAMLTD
- DSICMDU (Data REXX support)
- DSIDMN
- DSIILGCF
- DSILUCTD
- DSIOPF
- DSIREXCF
- DSIRSHCF
- DSIRTTTD
- DSITBL01
- DSITCPCF
- DSIUINIT
- DSIWBMEM
- DUIFPMEM
- DUIIGHB
- EZLCFG01
- EZLDSIAO
- FKVCFG01
- FKVISTAO
- FKVTABLE
- FLBAUT
- HELPMAP (CNMS1048)

IP Management

Most of the IP management functions that are available under the AON TCP subtower have also been made available under either the base NetView program (for example, Ping and Tracerte) or the new IP Management (IPMGT) tower. This change no longer requires you to configure the AON component in order to access these IP management functions. However, because the AON TCP subtower and the IPMGT tower are mutually exclusive, you must decide whether to use the IPMGT tower or the AON TCP subtower in order to use these IP management functions. To help with this decision, review the following list of IP management functions that are not available under either the base NetView program or the IPMGT tower:

- IP server management (for UNIX Command Server and TSO Command Server)
- Issue TSO and UNIX commands (for UNIX Command Server and TSO Command Server)
- SNMPVIEW
- NetView 6000 support
- CISCOWorks Blue function

Additionally, the following functions have changed:

- ACTMON
- IP tracing
- IPMAN
- IPSTAT
- Ping
- Tracerte

Message Logging

Starting with Tivoli NetView for z/OS V6R1, a new logging facility named Canzlog is required to be present for successful automation of system messages. This facility is enabled by using a data space which is, by default, defined with 2GB of virtual storage, and is allocated to the `Master Scheduler` address space. For more information about defining this data space, see the *Installation: Getting Started* manual.

Warning: Proper planning for real and auxiliary storage must be performed before enabling the Canzlog data space, as system slowdown and hangs can occur with insufficient storage.

NetView Resource Manager

As a result of being able to customize the NetView Resource Manager autotask, forwarding status from a host at the V5R2 or later level to a manager host on a previous release works only if the NetView Resource Manager autotask is AUTONRM. However, you can continue to forward status from a host at the V1R4 level to a manager at the V5R2 or later level. There is no restriction on the NetView Resource Manager autotask name in V5R2 or later for the upward migration to work.

Security Enhancements

The following security enhancements have been made:

- Support for mixed-case passwords and password phrases
- User-defined command authorization table:

  With NetView for z/OS V6.2.1 APAR OA48179, a sample command authorization table named CNMSCATU is provided in the DSIPARM data set. This sample is included by DSIPARM member CNMSCAT2 and is intended for user command authorization table entries. When using CNMSCATU, review and make any necessary modifications to CNMSCAT2, while considering the following rules:

  – If you have more than one PROTECT statement that describes the same command, keyword and value, the first statement is used and all others are ignored.

  – More than one PERMIT statement can be specified for the same command identifier.

For more information, refer to *IBM Tivoli NetView for z/OS Security Reference*.

Mixed Case Passwords

If you use an SAF product for password checking, you might be able to use the mixed case password function. For more information, see *IBM Tivoli NetView for z/OS Security Reference*.

Password Phrases

The NetView program provides support for password phrase authorization. A password phrase can be used as a substitute for a password for all NetView functions that use an SAF product, such as RACF, for security checking. Any panel that accepts passwords was updated to accept password phrases. The password phrase can include phrases from 9-100 characters in length.

The RACF product allows password phrases to contain any valid EBCDIC characters. When setting a password phrase for a user ID that will be accessed from a non-z/OS system, the password on that system is entered as ASCII text. Not all EBCDIC characters have an ASCII equivalent, so limit the EBCDIC password phrase to characters that have an ASCII equivalent.

Password phrases are not supported in the following environments:

- Password checking using the DSIOPF member
- Logon validation using the DSIEX12 installation exit
- Tivoli Enterprise Portal login. Because of this restriction, the password phrase cannot be passed to the Tivoli Enterprise Monitoring Server for RACF verification.
- Functions that use the NetView-NetView task (NNT)

CNMSCATU

With NetView for z/OS v6.2.1 APAR OA48179, a sample command authorization table named CNMSCATU is provided in the DSIPARM data set. This sample is included by DSIPARM member CNMSCAT2 and is intended for user command authorization table entries. When using CNMSCATU, review and make any necessary modifications to CNMSCAT2, while considering the following rules:

- If you have more than one PROTECT statement that describes the same command, keyword and value, the first statement is used and all others are ignored.
- More than one PERMIT statement can be specified for the same command identifier.

System Symbols in Parameter Files

The NetView program uses the MVS system symbols listed in Table 25 on page 61. The system symbols are defined in the SYS1.PARMLIB data set for the following members of the DSIPARM data set:

- CNMSTYLE
- DUIGINIT
- FLBSYSD

Table 25. System Symbol Usage by Initialization Members

Member	Task	TCP/IP NAME	RODM NAME	NETID
		&CNMTCPN	**&CNMRODM**	**&CNMNETID**
CNMSTYLE	NetView initialization	X	X	X
DUIGINIT	GMFHS (Graphics)		X	
FLBSYSD	SNA Topology manager		X	

&DOMAIN is a NetView symbol that is used in the following parameter files and is defined only within the NetView address space:

- CNMSCBET

- CNMSMRT1
- CNMSTASK
- CNMSTGEN
- CNMSTPWD
- CNMSTUSR
- CNMSTYLE
- DSIAMIAT
- DSIAMII
- DSITBL01
- DSIVPARM
- FKXWHTML
- FLBSYSD

Attribute Data for Unsolicited MVS Messages

Starting with V6R1, the NetView program receives unsolicited MVS messages only through the subsystem interface. Some data that was available by using a value of SYSTEM for MSGIFAC is no longer available.

Some message facilities (see Table 26 on page 62) depend on vectors in the Message Data Block (MDB). The MDB is not available for unsolicited MVS messages in NetView V6R1 or later. For this reason, the data facilities that are shown in Table 26 on page 62 return no value when used for unsolicited messages.

Table 26. NetView data facilities dependent on the MDB

NetView facility	**Function/variable**
Automation table condition items	• CART • MSGCMISC • MSGCMSGT • MSGCPROD • MSGCSPLX • MSGDOMFL • MSGGBGPA • MSGGFGPA • MSGGMFLG • MSGSRCNM
Message processing information REXX functions	• MSGCMISC() • MSGCMSGT() • MSGCPROD() • MSGCSPLX() • MSGCSYID() • MSGDOMFL() • MSGGBGPA() • MSGGFGPA() • MSGGMFLG() • MSGSRCNM() • PRTY()

Table 26. NetView data facilities dependent on the MDB (continued)	
NetView facility	**Function/variable**
Message processing information NetView command list variables	• &MSGCMISC • &MSGCMSGT • &MSGCPROD • &MSGCSPLX • &MSGCSYID • &MSGDOMFL • &MSGGBGPA • &MSGGFGPA • &MSGGMFLG • &MSGSRCNM • &PRTY
REXX or NetView command list function	GETMPRES
CNMGETA (CNMGETATTR) - query message attributes PL/C and C callable service	• CART • MSGCMISC • MSGCMSGT • MSGCPROD • MSGCSPLX • MSGCSYID • MSGDOMFL • MSGGBGPA • MSGGFGPA • MSGGMFLG • MSGSRCNM • PRTY

UNIX System Services

The following section describes the directories, configuration files, and functions that have changed from NetView V1R4 to NetView V6R2M1. Also review the section in “Preparing UNIX System Services” on page 17.

The NetView MIB collection was moved from the `/usr/lpp/netview/mibs/` directory to the `/usr/lpp/netview/v6r2m1/mibs/` directory.

The following configuration files found in NetView V1R4 are no longer used in NetView V6R2M1:

- /etc/netview/fkxcm [1]
- /etc/netview/ipdiscovery.conf
- /etc/netview/nv390mibs.def
- /etc/netview/nv390srvc.conf
- /etc/netview/snmp.conf
- /var/netview/properties/JdnServerProperties.txt
- /var/netview/properties/startup/config.properties
- /var/netview/properties/startup/node.def

- /var/netview/properties/startup/pollobj.def
- /var/netview/properties/startup/resource.def
- /var/netview/properties/startup/template.def
- /var/netview/properties/startup/view.def

Usage note:

1. Copy any non-duplicate community names from fkxcm into DSIPARM member CNMSCM.

The web resources files that are used by the Web Services Gateway function are located in the following directory:

```
/usr/lpp/netview/v6r2m1/www/
```

See *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* to update the files for your environment. The WSDL files automatically generate a proxy-client connection.

Table 27. Web Services Gateway files

File name	Purpose	Modifications
znvsoatx.htm	Text-based Web Services client.	Update URLs for your environment. Locate the <SELECT> tag and modify the <OPTION>*your.web.services.server*</OPTION> tag.
znvsoa.htm	Graphic version of the Web Services client.	Update URLs for your environment. Locate the <SELECT> tag and modify the <OPTION>*your.web.services.server*</OPTION> tag.
znvwsdl.wsdl	Provides Web services definitions for different output formats.	Update the soap:address location for your environment. Locate the <soap:address location= > tag.
znvwsdl1.wsdl	Provides Web services definitions for different output formats.	Update the soap:address location for your environment. Locate the <soap:address location= > tag.
znvwsdl2.wsdl	Provides Web services definitions for different output formats.	Update the soap:address location for your environment. Locate the <soap:address location= > tag.

The following functions are no longer available on UNIX System Services for NetView V6R2M1:

- The TCP/IP discovery sample which previously ran on z/OS and OS/390 in UNIX System Services.

  You can download this sample from the NetView for z/OS web page (http://www.ibm.com/software/tivoli/products/netview-zos/). It is replaced in the product by the TCP/IP discovery function for Linux on z Systems®.
- The -jsnmp option of the NVSNMP command
- Java™ Application Server (JAS)

  The Java Application Server provided for starting, stopping, and checking the status of the following services in an z/OS UNIX System Services environment:

  – SNMPSRVC
  – POLLSRVC
  – MIBSRVC
  – LOADMIB

Chapter 4. Migrating from Tivoli NetView for z/OS V5R4

This chapter describes how to migrate the NetView program to run as a production system if you are migrating from the Tivoli NetView for z/OS V5R4. The migration information is based on the NetView components that are supplied with the initial release of V6R2M1. Review your maintenance to see if you already made some of the changes that are described in this chapter.

You can either add the V6R2M1 content into your V5R4 NetView definitions, or add your V5R4 customization to the default V6R2M1 members supplied with the NetView program. Either way, place the customized member into an appropriate user-allocated data set such as NETVIEW.V621USER.CNM01.DSIPARM. Do not customize members in the SMP/E-managed data sets such as NETVIEW.V6R2M1.DSIPARM.

Several factors can influence the method you use when migrating your NetView definition members. Factors such as the size and complexity of your network, security policies that must be followed, and established practices within your business can all influence what is the best method for your migration. The checklist that follows details the documented method of migration as outlined in this book and supported by other books in the NetView library. Choose the method of migration that is best for you.

Do the following steps to migrate your V5R4 definitions:

1. Allocate a new set of V6R2M1 user data sets by running the CNMSJ002 sample job. You did this when you completed the steps in Table 13 on page 18.
2. Define a unique &NV2I value (*xx*) for each NetView domain.
3. Review your customized V5R4 copy of the CNMSTYLE member. If you did not already do so, move all of your domain-specific customization of V5R4 CNMSTYLE statements into the C*xx*STGEN member and all of your system-wide customization of V5R4 CNMSTYLE statements into the CNMSTUSR member. Do not copy your V5R4 CNMSTYLE member into the V6R2M1 user DSIPARM data set.
4. Review the CNMSTYLE information in this chapter and the V6R2M1 CNMSTNXT member that is included with the NetView program. Place any domain-specific customization of CNMSTYLE statements into the C*xx*STGEN member and any system-wide customization of CNMSTYLE statements into the CNMSTUSR member. Do not modify the V6R2M1 default CNMSTYLE member.
5. Review the remaining information in this chapter, and migrate your V5R4 NetView definition members and JCL procedures as appropriate, placing only those members that were modified into the V6R2M1 user data sets.

Figure 3 on page 66 shows the NetView V6R2M1 initialization flow. Keep this new initialization flow in mind as you make changes to your DSIPARM members.

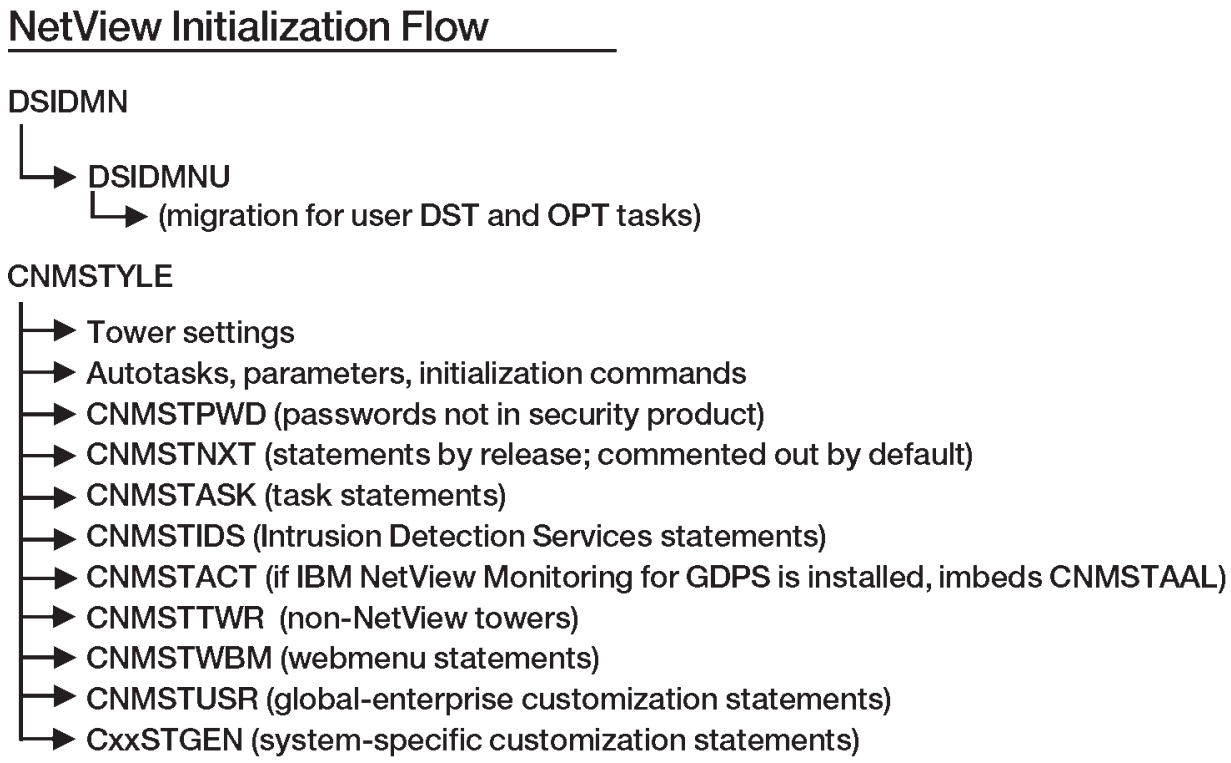


Figure 3. NetView Initialization Flow

For changes by release, including changed panels, commands, messages, and samples, see the following appendixes:

- Appendix B, “Changes from Tivoli NetView for z/OS V5R4 to Tivoli NetView for z/OS V6R1,” on page 155
- Appendix C, “Changes from Tivoli NetView for z/OS V6R1 to Tivoli NetView for z/OS V6R2,” on page 177
- Appendix D, “Changes from Tivoli NetView for z/OS V6R2 to Tivoli NetView for z/OS Version V6R2M1,” on page 193

New Samples

Table 28 on page 66 lists new samples to review during migration.

Table 28. List of New Samples

Distributed As	Name	Description	Data Set Name
CNMS8050	ZAIGET	Connects to IBM System z Advanced Workload Analysis Reporter (IBM zAware) and queries the IBM zAware server for data	CNMSAMP
CNMS8051	ZAIPROC	Defines the IBM zAware query and calls the ZAIGET sample	CNMSAMP
CNMS8052	ZAITIMER	Issues the ZAIPROC sample periodically	CNMSAMP
CNMS8053	same	Saves long global variables	CNMSAMP
CNMS8054	same	Restores long global variables	CNMSAMP
CNMSCATU	same	User-defined command authorization table	DSIPARM
CNMSCSFM	same	Command Statistics Data Formatter	CNMSAMP

Table 28. List of New Samples (continued)

Distributed As	Name	Description	Data Set Name
CNMSCSIE	same	Command Statistics Include and Exclude Definitions	CNMSAMP
CNMSCSSU	same	Command Statistics Summary Data	CNMSAMP
CNMSDSCP	same	Command Statistics Data Processor	CNMSAMP
CNMSDVEV	same	Automation table member for DVIPA SMF runtime updates that is included when the DVIPA tower is enabled. The automation detects that a z/OS Communications Server SMF DVIPA update was received, which then triggers rediscovery for DVIPA functions on this z/OS system.	DSIPARM
CNMSJM14	same	Reorganizes the Saved Packet Trace database	CNMSAMP
CNMSJM15	same	Migrates the save/restore (DSISVRT) VSAM cluster	CNMSAMP
CNMSTACT	same	This sample includes the CNMSTAAL member if the IBM Tivoli NetView Monitoring for GDPS product is installed. The CNMSTACT member is used for the GDPS Active/Active Continuous Availability solution.	SAQNPARM
DSIOPFAU	same	Operator definitions for existing AUTO1 and AUTO2 autotasks.	DSIPARM
DSIOPFEX	same	Example operator definitions and passwords that can be modified or deleted	DSIPARM
DSIOPFIX	same	Operator definitions that cannot be modified	DSIPARM
DSIOPFST	same	Operator definitions that can be modified	DSIPARM
DSIPROFP	same	Automated operator profile for an autotask that has high CPU processor utilization and runs with SLOGCMDR=NO	DSIPRF

VTAM Address Space

The following samples list changes for the VTAM address space.

CNMNET (CNMSJ008)

CNMNET (CNMSJ008) is the start procedure for the VTAM program.

Change CNMNET in your PROCLIB in the following way:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.

NetView Address Space

The following samples list changes for the NetView address space.

CNMCMENT

The CNMCMENT member in the DSIPARM data set contains sample CMDDEF statements. Do not modify this sample. Use the V6R2M1 version. Add any customization for your system to the CNMCMDU member.

CNMPOLCY

The CNMPOLCY member in the DSIPARM data set contains the automation policy for the NetView program.

TCP390 Statement Note: The DVIPADAT keyword was removed.

CNMPROC (CNMSJ009)

CNMPROC (CNMSJ009) is the start procedure for the NetView program.

Make the following changes to the CNMPROC member in your PROCLIB data set:

1. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.
2. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
3. Add the following TQ1 statement after the VQ1 statement to specify the high-level qualifier of your NetView sequential data sets:

   ```
   //       TQ1=NETVIEW,          ** SEQUENTIAL DSN HIGH LEVEL QUALIFIER
   ```

   This statement does not affect the dynamic allocation of the sequential data sets used by the archive Canzlog function.
4. Add the SAQNLINK data set ahead of the CNMLINK data set in the STEPLIB concatenation:

   ```
   //STEPLIB  DD   DSN=&SQ1..SAQNLINK,DISP=SHR
   //         DD   DSN=&SQ1..CNMLINK,DISP=SHR
   ```
5. If you run Language Environment (LE) HLL programs with the NetView program, and did not install the LE runtime library in the LNKLSTxx member, be sure that the library name in the STEPLIB statement of CNMPROC procedure is correct and uncommented.
6. Update the DSICLD DD statement to add the SAQNCLST data set:

   ```
   //DSICLD   DD   DSN=&Q1..&DOMAIN..CNMCLST,DISP=SHR
   //         DD   DSN=&SQ1..SAQNCLST,DISP=SHR
   //         DD   DSN=&SQ1..CNMCLST,DISP=SHR
   //         DD   DSN=&SQ1..CNMSAMP,DISP=SHR
   //*        DD   DSN=SYS1.PROCLIB,DISP=SHR
   ```
7. Add the SAQNPARM data set as follows:

   ```
   //DSIPARM  DD   DSN=&Q1..&DOMAIN..DSIPARM,DISP=SHR
   //         DD   DSN=&SQ1..SAQNPARM,DISP=SHR
   //         DD   DSN=&SQ1..DSIPARM,DISP=SHR
   ```
8. Change the high-level qualifier symbolic variable of the distributed DVIPA statistics data sets as follows:

   ```
   //CNMDVIPP DD   DSN=&TQ1..&DOMAIN..CNMDVIPP,DISP=SHR
   //CNMDVIPS DD   DSN=&TQ1..&DOMAIN..CNMDVIPS,DISP=SHR
   ```
9. If you had added the following statements to enable the use of z/OS System SSL with the Web Services Gateway function, they are no longer needed:

   ```
   QGSK='SYS1', ** IBM GSK TOOLKIT RUNTIME LIB.
   DD DSN=&QGSK..SIEALNKE,DISP=SHR
   ```

CNMPSSI (CNMSJ010)

The CNMPSSI (CNMSJ010) member starts the NetView subsystem address space.

Make the following changes to the CNMPSSI member in your PROCLIB data set:

1. Ensure that the high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. The MSGIFAC, MBUF, CBUF, DSIG, and PFXREG keywords are no longer used and their values are ignored. For migration purposes, these keywords must not be removed.

CNMSAF2

The CNMSAF2 member in the CNMSAMP data set contains sample RACF definitions for NetView operators and commands.

CNMSCAT2

DSIPARM member CNMSCAT2 contains the sample command authorization table.

CNMSCATU

With NetView for z/OS V6.2.1 APAR OA48179, a sample command authorization table named CNMSCATU is provided in the DSIPARM data set. This sample is included by DSIPARM member CNMSCAT2 and is intended for user command authorization table entries.

When using CNMSCATU, review and make any necessary modifications to CNMSCAT2, while considering the following rules:

- If you have more than one PROTECT statement that describes the same command, keyword and value, the first statement is used and all others are ignored.
- More than one PERMIT statement can be specified for the same command identifier.

CNMSTYLE

The CNMSTYLE member in the DSIPARM data set is used during NetView initialization. Make any changes to CNMSTYLE statements in the CNMSTUSR or C*xx*STGEN member. For information about changing CNMSTYLE statements, see *IBM Tivoli NetView for z/OS Installation: Getting Started*. The CNMSTYLE member is designed to simplify the NetView initialization process.

Table 29 on page 69 lists the towers and subtowers that were deleted.

Table 29. Towers and subtowers that were deleted

Tower	Subtowers	Description
MSM	• IP[1] • TMR[1]	• IP feature • Tivoli Managed Resource feature

Note:

1. Only the subtower was deleted.

Table 30 on page 70 shows the CNMSTYLE statements that were removed.

Table 30. CNMSTYLE statements removed

Functions removed	Statements removed
Sysplex IP Stack Manager	DISCOVERY.STMODEL (DISCOVERY)RTNDEF.PROCESSOR.SYSTEM.STM (DISCOVERY)RTNDEF.PROCESSOR.STACK.STM (DISCOVERY)function.autotask.STM (DISCOVERY)INIT.STM (DISCOVERY)STM.SA
DVIPA function for the Web application	COMMON.CNMSTYLE.DVIPAINTVL COMMON.CNMSTYLE.DVIPAMAX (DVIPA)function.autotask.DVIPA AUTOTASK.?DVIPA.Console AUTOTASK.?DVIPA.InitCmd (dvipa) FKXEDVPT FKXEDVPA FKXEDVP1 FKXEDVP2 FKXEDVP3 FKXEXLAT[1]
NetView 3270 management console	TASK.DSITCPIP.INIT MCON.TCPANAME MCON.PORT MCON.SOCKETS
Use of z/OS System SSL with the Web Services Gateway function	(NVSOA)NVSP.srvrname.CLNTAUTH (NVSOA)NVSP.srvrname.PASSTHRU (NVSOA)NVSP.srvrname.SESTOUT (NVSOA)NVSP.srvrname.CIPHERSP (NVSOA)NVSP.srvrname.USERCACH (NVSOA)NVSP.srvrname.KEYRING (NVSOA)NVSP.srvrname.PASSWORD[2] (NVSOA)NVSP.srvrname.LABEL (NVSOA)NVSP.srvrname.STH

Note:

1. Continuation line for the inStore.DSICLD statement
2. Defined in CNMSTPWD

The following defaults changed:

Table 31. CNMSTYLE statements

Statement	Prior default	Current default
NLDM.PIUTSIZE	4K	12K
RMTINIT.IP	No	The initial setting in the CNMSTYLE member changed to YES. By default, not all NetView functions have RMTCMD for TCP/IP enabled. There might be additional configuration that is required for these functions. If the RMTCMD command on two NetView programs are to use TCP/IP and both are using the same TCP/IP stack, specify different ports to avoid a conflict. If you do not specify a RMTINIT.IP statement, the default value remains as N0.

CNMSTYLE statement notes:

1. The MVSPARM.MSGIFAC statement is no longer used. If specified, its value must be *NONE*.
2. The SSIname statement is no longer used; if specified, it is ignored.

   The name of the subsystem router task is CNMCSSIR. Starting with NetView V6R1, changing the task name of the subsystem router has no utility and is not supported.
3. The SSI.DSIG statement is no longer used; if specified, it is ignored. Use the MVSPARM.Cmd.Designator statement to specify a command designator to prefix NetView commands that are entered from a z/OS system console.

For information about new, changed, or deleted CNMSTYLE statements, see "CNMSTNXT" on page 71.

If you want information about...	Refer to...
CNMSTYLE statements	*IBM Tivoli NetView for z/OS Administration Reference*

CNMSTACT

The CNMSTACT member includes the CNMSTAAL member if the IBM Tivoli NetView Monitoring for GDPS product is installed. The CNMSTACT member is used for the GDPS Active/Active Continuous Availability solution.

CNMSTIDS

The CNMSTIDS include member contains Intrusion Detection Services statements. The z/OS Communications Server Version 1 Release 11 Intrusion Detection Services probes were added.

CNMSTNXT

The CNMSTNXT member contains CNMSTYLE statements that are new, changed, or deleted. Statements are grouped according to version and release level of the NetView product. Review the statements in the CNMSTNXT member and update the CNMSTUSR or C*xx*STGEN member as necessary.

CNMSTWBM

If you are using the version of the CNMSTWBM member that is supplied by the NetView product, no changes are required. If you modified the V5R4 CNMSTWBM member, copy any changes that you made into the V6R2M1 member.

The following statements were removed from the CNMSTWBM member:

- webmenu.ceisrvr (set Common Event Infrastructure server)
- webmenu.temssoapsrvr (define the Tivoli Enterprise Management Server SOAP server)
- webmenu.mfntargets (define the OMEGAMON XE for Mainframe Networks target)
- webmenu.prefoverride (define override authority for user preferences)
- webmenu.mytasks.groups = eventvw systopo, blog1 cmdline nvhelp lnchproc fdvipa mdvipa mcsstack mtsstack web3270
- webmenu.mytasks.eventvw (Browse Events task)
- webmenu.mytasks.systopo (Browse Sysplex Topology task)
- webmenu.mytasks.blog1 (Browse Logs task)
- webmenu.mytasks.cmdline (Open Command Console task)
- webmenu.mytasks.nvhelp (Open NetView Help task)
- webmenu.mytasks.lnchproc (Launch Procedures task)
- webmenu.mytasks.fdvipa (View DVIPA Status task)
- webmenu.mytasks.mdvipa (View DVIPA Distributors task)
- webmenu.mytasks.mcsstack (Manage TCP/IP Connections task)

- webmenu.mytasks.mtsstack (Manage IP Packet Trace Data task)
- webmenu.mytasks.web3270 (Open 3270 Console task)

The following statements were added to the CNMSTWBM member:

- webmenu.mytasks.groups = sample (group definition)
- webmenu.mytasks.sample (Launch Sample URL task)

DSIAUTB

This sample contains a list of parts that is used by the AUTBYPAS REXX or CLIST function. Because of the number of changes, use the V6R2M1 version of DSIAUTB.

DSICTMOD

DSICTMOD is the NetView constants module that can be updated using sample job CNMS0055. Use the DSICTMOD module shipped with V6R2M1. If you updated CNMS0055 for your current release, merge those changes into the V6R2M1 CNMS0055 sample, submit it to assemble, and link edit your changes into the DSICTMOD module.

The default number of common global variables has increased from 3000 to 5000 variables.

DSIIFR

As of NetView V6R1, the IFRAUWWI field is removed from the DSIIFR macro. To retrieve or test the WTO ID, use the IFRAUWID field instead.

DSIOPF

Starting with V6R2, the DSIOPF member has a new structure:

Table 32. DSIOPF structure

Include member	Description
DSIOPFAU	Includes existing AUTO1 and AUTO2 autotasks
DSIOPFEX	Includes sample operator definitions. All sample definitions in the DSIOPFEX member can be modified or deleted without affecting the operation of the NetView program.
DSIOPFIX	Includes operator definitions that cannot be changed. See the comments in the DSIOPFIX member to update necessary passwords.
DSIOPFST	Includes operator definitions for which the operator ID can be changed. The DSIOPFST member includes the following additional members associated with the specified towers: • EZLOPF (AON) • FKVOPF (AON.SNA) • FKXOPF (AON.TCP) • FKXOPFIP (IPMGT) • FLCSOPF (MSM)

Table 32. DSIOPF structure (continued)	
Include member	**Description**
DSIOPFU	Includes customer-defined operator definitions

If you modified the V5R4 DSIOPF member and you want to use the new structure, copy any changes that you made into the appropriate V6R2M1 member.

You can add Data REXX logic to conditionally define operator definitions in DSIOPFU. Data REXX files must have either /*%DATA*/ or /*%LOGIC*/ as the first statement. Comments can follow on the same or subsequent lines. A blank in the first column indicates a continuation of the previous statement. For more information about Data REXX, refer to *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

The following operator definitions were deleted:

Table 33. Deleted operator definitions	
Operator definition	**%INCLUDE member**
AUTOIP1 OPERATOR PASSWORD=AUTOIP1 PROFILEN FLCSPRFB AUTOIPA OPERATOR PASSWORD=AUTOIPA PROFILEN FLCSPRFB	FLCSOPF

DSIRXPRM

The DSIRXPRM load module contains the REXX initialization parameters that are required to establish a new REXX environment.

Note: If you previously added any REXX initialization parameters to the DSIRXPRM module, delete the previous version of the DSIRXPRM module. As of NetView V6R2, the NetView program is not compatible with previous versions of the DSIRXPRM module.

Define the previously added REXX initialization parameters as follows:

- If you previously added REXX command environments or REXX function package names to the DSIRXPRM module, migrate those changes to the CNMSTYLE (CNMSTUSR or C*xx*STGEN) member by using the following CNMSTYLE statements. For more information about these statements, see the *Administration Reference*.
  - REXX.CMDENV.*name*
  - REXX.FUNCPKGLIST.LCL.*name*
  - REXX.FUNCPKGLIST.SYS.*name*
  - REXX.FUNCPKGLIST.USR.*name*
- If you previously added other REXX initialization parameters to the DSIRXPRM module, merge those changes into the v6.2.1 version of the CNMSJM11 sample. Ensure that you deleted the earlier version of the DSIRXPRM module, and then run the CNMSJM11 job to assemble and link edit your changes into the DSIRXPRM module.

  Note: You must delete the earlier version of the DSIRXPRM module because it was link edited with the RENT attribute whereas the current version is link edited with the REUS attribute.
- If you previously added the system REXX function package for IBM Tivoli System Automation for z/OS to the DSIRXPRM module, drop the modified DSIRXPRM module from your environment. The System Automation INGRXFPG REXX function package is loaded automatically when the SA tower is enabled. If necessary, use the previous migration steps to include other System Automation REXX function packages.

DSITBL01

The DSITBL01 automation table is the default NetView automation table and is required by the NetView program. The DSITBL01 automation table provides basic automation statements to respond to messages and management services units (MSUs). If the DSITBL01 automation table is not activated during NetView initialization, the DWO093W warning message is issued by the NetView program.

Important: If you modify the DSITBL01 automation table, consider that many of the statements are used in the normal operation of the NetView program.

Several messages that are supplied by the NetView product have changed with the V6R2M1 program. These messages are listed in the appendixes. Review the list and make any necessary changes to your automation table.

You can add your own automation table by using the AUTOCMD statement in the CNMSTUSR or C*xx*STGEN member. Place your automation table before the DSITBL01 automation table and code CONTINUE(YES) on any local customization to make sure that messages flow to the DSITBL01 automation table. For more information on the AUTOCMD statement, refer to the *IBM Tivoli NetView for z/OS Administration Reference*.

Because the MultiSystem Manager IP agent was removed, the following statements were deleted:

```
%>IF TOWER('MSM.IP') THEN DO;      /* MSM.IP */
IF (MSUSEG(0000.10.11(2) 3 5) = '0100') &
    ((MSUSEG(0000.10.11(2).02 3) = '5696-3620' .) |
     (MSUSEG(0000.10.11(2).02 3) = '5696-7310' .) |
     (MSUSEG(0000.10.11(2).02 3) = '5697-NVW0' .) |
     (MSUSEG(0000.10.11(2).02 3) = '5697-1480' .) |
     (MSUSEG(0000.10.11(2).02 3) = '5697-B820' .) |
     (MSUSEG(0000.10.11(2).02 3) = '5697-ENV0' .)) &
     HIER = ''
 THEN
   EXEC(CMD('FLCAIAUT') ROUTE(ONE ?MSMalerts))
 %>  IF tower('aon.tcp')  THEN
   CONTINUE(Y);
 %>  ELSE
   CONTINUE(N);
 %>END;                             /* MSM.IP */
```

DSITCPCF

The DSITCPCF member in the DSIPARM data set defines the initialization values for the DSITCPIP task. Do not modify the Data REXX version of the DSITCPCF member. Because the NetView 3270 management console was removed, the MCON statements were removed from the DSITCPCF member.

DSITCPRF

The DSITCPRF member in the DSIPRF data set defines TCP/IP operator security profiles. The operator ID and ANY_OTHER statements were removed.

DSIZVLSR

The DSIZVLSR module defines the buffer pools to be used with the VSAM LSR and DSR performance options. Update the DSIZVLSR module by using the CNMSJM01 sample job. Use the DSIZVLSR module shipped with V6R2M1. If you previously updated the CNMSJM01 job, merge those changes into the V6R2M1 version of the CNMSJM01 job and run it to assemble and link edit your changes into the DSIZVLSR module.

The following change was made to the DSIZVLSR module:

- Removed TARA support (BNJDSE36).

EZLMT

The EZLMT member defines which EZL, FKV, FKX, and EZZ messages generate alerts. The EZZ8662I, EZZ8663I, EZZ8664I, and EZZ8665I messages were added.

FLCAINP

Because the MultiSystem Manager IP agent was removed, the following statement was deleted:

```
*%INCLUDE FLCSIIP
```

RODM Address Space

The samples in this section list changes for the RODM address space.

EKGLOADP

EKGLOADP is the sample RODM load procedure JCL.

Make the following changes to the EKGLOADP member:

1. For NetView data sets, ensure your high-level qualifier for system data sets points to NETVIEW.V6R2M1.

EKGXRODM

The EKGXRODM member is the RODM start procedure.

Make the following changes to the EKGXRODM member:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.
3. If you did not install the Language Environment for OS/390 runtime library in the LNKLST*xx* or PROG*xx* member, be sure that the library name in the STEPLIB statement of the EKGXRODM member is correct and uncommented. Remove DD statements for PL/I or C/C++ runtime libraries because these libraries are no longer being used.

GMFHS Address Space

The samples in this section list changes for the GMFHS address space.

CNMGMFHS (CNMSJH10)

The CNMGMFHS (CNMSJH10) member is the GMFHS start procedure.

Make the following changes to the CNMGMFHS member:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.

Event/Automation Service Address Space

The sample in this section lists changes for the Event/Automation Service address space.

IHSAECDS

The IHSAECDS member in the SCNMUXCL data set contains class definition statements that are used by the event receiver task (EVENTRCV) of the Event/Automation Service (E/AS) to map inbound Event Integration Facility (EIF) events to alerts or to resolve Network Management Vector Transports (NMVTs).

IHSAEVNT

The IHSAEVNT member starts the Event/Automation Service address space. Make the following changes to the IHSAEVNT member in your PROCLIB data set:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.

Additional Considerations

Consider changes to the following functions:

- "Message Logging" on page 60
- "NetView DLA" on page 76
- "NetView for z/OS and Tivoli NetView for z/OS Enterprise Management Agent Versions" on page 76
- "NetView Web Application" on page 77
- "Sysplex and Enterprise Management" on page 77
- "Attribute Data for Unsolicited MVS Messages" on page 77
- "UNIX System Services" on page 79
- "Web Services Gateway" on page 79

Message Logging

Starting with Tivoli NetView for z/OS V6R1, a new logging facility named Canzlog is required to be present for successful automation of system messages. This facility is enabled by using a data space which is, by default, defined with 2GB of virtual storage, and is allocated to the `Master Scheduler` address space. For more information about defining this data space, see the *Installation: Getting Started* manual.

Warning: Proper planning for real and auxiliary storage must be performed before enabling the Canzlog data space, as system slowdown and hangs can occur with insufficient storage.

NetView DLA

In prior releases, NetView for z/OS discovery library adapter (DLA) was populated by Tivoli NetView Version 7.15 or later on a distributed platform. The NetView v6.2 DLA is populated by discovery manager (for discovery of zSeries system resources) and the MultiSystem Manager IBM Tivoli Network Manager agent (for discovery of distributed resources). At least one of these managers must be active to use the NetView v6.2 DLA.

NetView for z/OS and Tivoli NetView for z/OS Enterprise Management Agent Versions

The Tivoli NetView for z/OS Enterprise Management Agent (NetView agent) requires Tivoli Management Services V6.3.0 Fixpack 2. If you are not currently running at this level, upgrade the following components to the V6.3.0 Fixpack 2 level before you install the NetView agent:

- Tivoli Enterprise Portal desktop client
- Tivoli Enterprise Portal Server
- Hub Tivoli Enterprise Monitoring Server

Because the NetView program is the data source for the NetView agent, both the NetView program and the NetView agent must be at the v6.2.1 level.

Before upgrading the NetView agent, review the *IBM Tivoli OMEGAMON XE and Tivoli Management Services on z/OS Upgrade Guide*. The general order of upgrade procedures documented for the OMEGAMON V5.1 and later monitoring agents also applies to the NetView agent.

Prior to IBM Tivoli Monitoring V6.2.3, before an agent could connect to a Tivoli Enterprise Monitoring Server, you were required to manually update the monitoring server (and other Tivoli Management

Services components such as the Tivoli Enterprise Portal Server and the Tivoli Data Warehouse) with information necessary for the monitoring server to recognize and process data sent by that agent. As of V6.2.3, this *seeding* step becomes unnecessary. The NetView agent has been enhanced with the optional self-description feature that automatically distributes the operating configuration directly to the local monitoring server, which then distributes those agent configuration files first to the hub monitoring server (if necessary) and then to the various IBM Tivoli Monitoring components that require it.

For a list of changes to the NetView agent, see the following information:

- For changes made in Version 6.2.1, see "Enterprise Management Agent Changes" on page 200.
- For changes made in Version 6.2, see "Enterprise Management Agent Changes" on page 186.
- For changes made in Version 6.1, see "Enterprise Management Agent Changes" on page 169.

NetView Web Application

Uninstall the current version of your NetView web application and reinstall the V6R2M1 version of the NetView web application. For installation details, refer to the *netview_installation_dir*/doc/znetview_webapp_readme_en.htm file and the *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* manual.

The web application uses the Application Transparent Transport Layer Security (AT-TLS) function for secure communication. If you enable secure connection between the NetView program and the web application server, you must configure the secure inbound connection for AT-TLS. For more information about controlling access, see the IBM Tivoli NetView for z/OS Security Reference.

Usage note :

1. The open 3270 console task was removed from the NetView web application. Statements and mappings for the cnm01_3270Screen servlet were removed from the web.xml file. If you are using a V5R4 or earlier version of the web.xml file, this statement is ignored.

Sysplex and Enterprise Management

The GDPS Active/Active Continuous Availability solution expands the scope of the enterprise master to enable both discovery manager data and Active/Active data to be forwarded to an enterprise master. You can have different enterprise masters for Active/Active data and discovery manager data, depending on the NetView configuration. If you have multiple enterprise masters, they must reside in different sysplexes or on separate stand-alone systems. For more information, see *IBM Tivoli NetView Monitoring for GDPS Configuring and Using the GDPS Active/Active Continuous Availability Solution*.

The output of the NVSTAT command has changed. In the BNH495I message, column ranges for fields starting with column 36 have changed. See the NetView online help for the correct columns.

NetView has added support for OSA-Express5S adapters. Some columns in the Tivoli Enterprise Portal OSA Channels and Ports workspace support additional values, as does message BNH597I (the output from the OSAPORT and CNMOSAP commands). Column 6 (hardware level), columns 8-11 and 51-54 (subtype and port type), and column 92 (speed mode) have changed. See the NetView online help for details.

Attribute Data for Unsolicited MVS Messages

Starting with V6R1, the NetView program receives unsolicited MVS messages only through the subsystem interface. Some data that was available by using a value of SYSTEM for MSGIFAC is no longer available.

Some message facilities (see Table 34 on page 78) depend on vectors in the Message Data Block (MDB). The MDB is not available for unsolicited MVS messages in NetView V6R1 or later. For this reason, the data facilities that are shown in Table 34 on page 78 return no value when used for unsolicited messages.

Table 34. NetView data facilities dependent on the MDB	
NetView facility	**Function/variable**
Automation table condition items	• CART • MSGCMISC • MSGCMSGT • MSGCPROD • MSGCSPLX • MSGDOMFL • MSGGBGPA • MSGGFGPA • MSGGMFLG • MSGSRCNM
Message processing information REXX functions	• MSGCMISC() • MSGCMSGT() • MSGCPROD() • MSGCSPLX() • MSGCSYID() • MSGDOMFL() • MSGGBGPA() • MSGGFGPA() • MSGGMFLG() • MSGSRCNM() • PRTY()
Message processing information NetView command list variables	• &MSGCMISC • &MSGCMSGT • &MSGCPROD • &MSGCSPLX • &MSGCSYID • &MSGDOMFL • &MSGGBGPA • &MSGGFGPA • &MSGGMFLG • &MSGSRCNM • &PRTY
REXX or NetView command list function	GETMPRES

Table 34. NetView data facilities dependent on the MDB (continued)	
NetView facility	**Function/variable**
CNMGETA (CNMGETATTR) - query message attributes PL/C and C callable service	• CART • MSGCMISC • MSGCMSGT • MSGCPROD • MSGCSPLX • MSGCSYID • MSGDOMFL • MSGGBGPA • MSGGFGPA • MSGGMFLG • MSGSRCNM • PRTY

UNIX System Services

Some directories, configuration files, and functions changed from NetView V5R4 to NetView V6R2M1. Also review the section in “Preparing UNIX System Services” on page 17.

Web Services Gateway

The Web Services Gateway function is updated to use Application-Transparent Transport Layer Security (AT-TLS) for secure communication instead of using z/OS System SSL directly. If you use the Web Services Gateway function with secure communications enabled, you must configure AT-TLS to secure inbound connections to the server. If AT-TLS is not configured for the NetView Web Services server and the CNMSTYLE NVSP.`srvrname`.SECURE statement is set to YES, all inbound connections are rejected. See information about controlling the access to the Web Services Gateway function in the *Security Reference*.

Chapter 5. Migrating from Tivoli NetView for z/OS V6R1

When you are migrating from the Tivoli NetView for z/OS V6R1, you can either add the V6R2M1 content into your V6R1 NetView definitions, or add your V6R1 customization to the default V6R2M1 members supplied with the NetView program. Either way, place the customized member into an appropriate user-allocated data set such as NETVIEW.V621USER.CNM01.DSIPARM. Do not customize members in the SMP/E-managed data sets such as NETVIEW.V6R2M1.DSIPARM.

Usage note: The migration information is based on the NetView components that are supplied with the initial release of V6R2M1. Review your maintenance to see if you already made some of the changes.

Several factors can influence the method that you use when migrating your NetView definition members. Factors such as the size and complexity of your network, security policies that must be followed, and established practices within your business can all influence what is the best method for your migration. The checklist that follows details the documented method of migration as outlined in this book and supported by other books in the NetView library. Choose the method of migration that is best for you.

Do the following steps to migrate your V6R1 definitions:

1. Allocate a new set of V6R2M1 user data sets by running the CNMSJ002 sample job. You did this when you completed the steps in Table 13 on page 18.
2. Define a unique &NV2I value (*xx*) for each NetView domain.
3. Review your customized V6R1 copy of the CNMSTYLE member. If you did not already do so, move all of your domain-specific customization of V6R1 CNMSTYLE statements into the C*xx*STGEN member and all of your system-wide customization of V6R1 CNMSTYLE statements into the CNMSTUSR member. Do not copy your V6R1 CNMSTYLE member into the V6R2M1 user DSIPARM data set.
4. Review the CNMSTYLE information in this chapter and the V6R2M1 CNMSTNXT member that is included with the NetView program. Place any domain-specific customization of CNMSTYLE statements into the C*xx*STGEN member and any system-wide customization of CNMSTYLE statements into the CNMSTUSR member. Do not modify the V6R2M1 default CNMSTYLE member.
5. Review the remaining information in this chapter, and migrate your V6R1 NetView definition members and JCL procedures as appropriate, placing only those members that were modified into the V6R2M1 user data sets.

Figure 4 on page 82 shows the NetView V6R2M1 initialization flow. Keep this new initialization flow in mind as you make changes to your DSIPARM members.

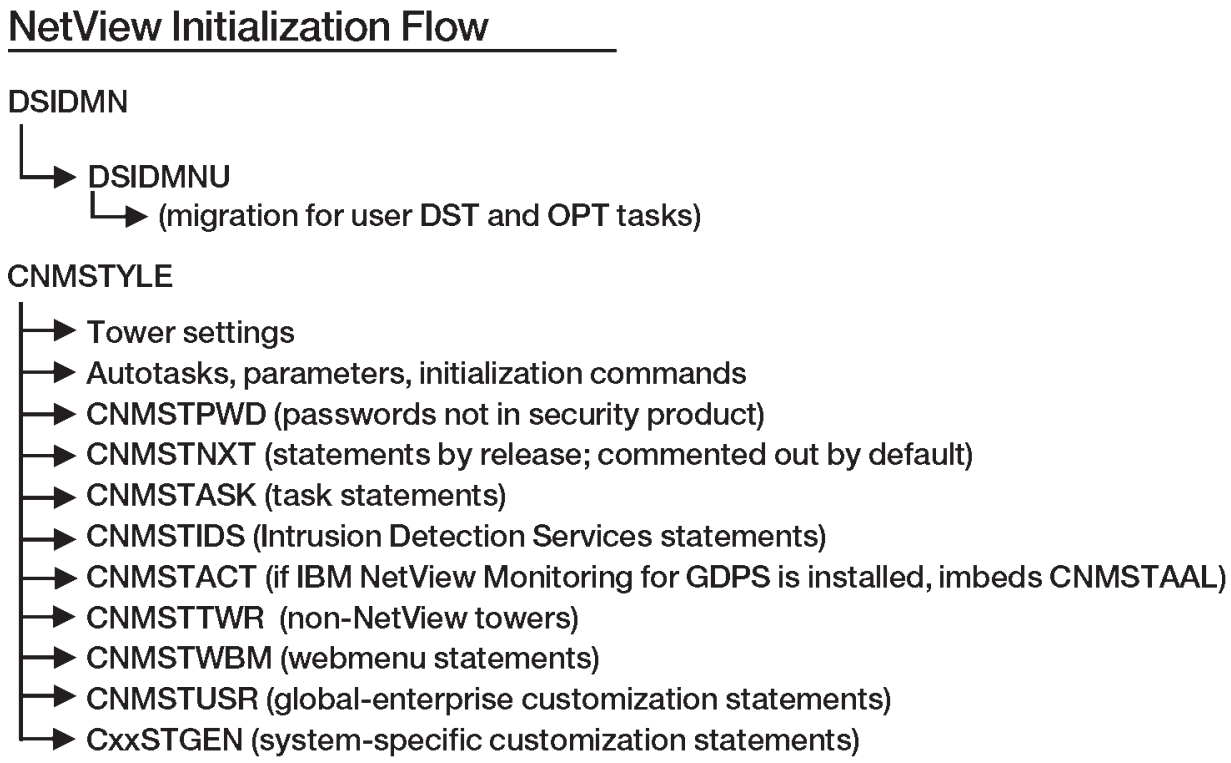


Figure 4. NetView Initialization Flow

For changes by release, including changed panels, commands, messages, and samples, see the following appendixes:

- Appendix C, “Changes from Tivoli NetView for z/OS V6R1 to Tivoli NetView for z/OS V6R2,” on page 177
- Appendix D, “Changes from Tivoli NetView for z/OS V6R2 to Tivoli NetView for z/OS Version V6R2M1,” on page 193

New Samples

Table 35 on page 82 lists new samples to review during migration.

Table 35. List of New Samples

Distributed As	Name	Description	Data Set Name
CNMS8050	ZAIGET	Connects to IBM System z Advanced Workload Analysis Reporter (IBM zAware) and queries the IBM zAware server for data	CNMSAMP
CNMS8051	ZAIPROC	Defines the IBM zAware query and calls the ZAIGET sample	CNMSAMP
CNMS8052	ZAITIMER	Issues the ZAIPROC sample periodically	CNMSAMP
CNMS8053	same	Saves long global variables	CNMSAMP
CNMS8054	same	Restores long global variables	CNMSAMP
CNMSCATU	same	User-defined command authorization table	DSIPARM
CNMSCSFM	same	Command Statistics Data Formatter	CNMSAMP
CNMSCSIE	same	Command Statistics Include and Exclude Definitions	CNMSAMP

Table 35. List of New Samples (continued)

Distributed As	Name	Description	Data Set Name
CNMSCSSU	same	Command Statistics Summary Data	CNMSAMP
CNMSDSCP	same	Command Statistics Data Processor	CNMSAMP
CNMSJM15	same	Migrates the save/restore (DSISVRT) VSAM cluster	CNMSAMP
CNMSTACT	same	This sample includes the CNMSTAAL member if the IBM Tivoli NetView Monitoring for GDPS product is installed. The CNMSTACT member is used for the GDPS Active/Active Continuous Availability solution.	SAQNPARM
DSIOPFAU	same	Operator definitions for existing AUTO1 and AUTO2 autotasks.	DSIPARM
DSIOPFEX	same	Example operator definitions and passwords that can be modified or deleted	DSIPARM
DSIOPFIX	same	Operator definitions that cannot be modified	DSIPARM
DSIOPFST	same	Operator definitions that can be modified	DSIPARM

VTAM Address Space

The following samples list changes for the VTAM address space.

CNMNET (CNMSJ008)

CNMNET (CNMSJ008) is the start procedure for the VTAM program.

Change CNMNET in your PROCLIB in the following way:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.

NetView Address Space

The following samples list changes for the NetView address space.

CNMCMENT

The CNMCMENT member in the DSIPARM data set contains sample CMDDEF statements. Do not modify this sample. Use the V6R2M1 version. Add any customization for your system to the CNMCMDU member.

CNMPROC (CNMSJ009)

CNMPROC (CNMSJ009) is the start procedure for the NetView program.

Make the following changes to the CNMPROC member in your PROCLIB data set:

1. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.
2. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.

3. If you had added the following statements to enable the use of z/OS System SSL with the Web Services Gateway function, they are no longer needed:

```
QGSK='SYS1', ** IBM GSK TOOLKIT RUNTIME LIB.
DD DSN=&QGSK..SIEALNKE,DISP=SHR
```

CNMPSSI (CNMSJ010)

The CNMPSSI (CNMSJ010) member starts the NetView subsystem address space.

Make the following changes to the CNMPSSI member in your PROCLIB data set:

1. Ensure that the high-level qualifier for system data sets points to NETVIEW.V6R2M1.

CNMSAF2

The CNMSAF2 member in the CNMSAMP data set contains sample RACF definitions for NetView operators and commands.

CNMSCAT2

DSIPARM member CNMSCAT2 contains the sample command authorization table.

CNMSCATU

With NetView for z/OS V6.2.1 APAR OA48179, a sample command authorization table named CNMSCATU is provided in the DSIPARM data set. This sample is included by DSIPARM member CNMSCAT2 and is intended for user command authorization table entries.

When using CNMSCATU, review and make any necessary modifications to CNMSCAT2, while considering the following rules:

- If you have more than one PROTECT statement that describes the same command, keyword and value, the first statement is used and all others are ignored.
- More than one PERMIT statement can be specified for the same command identifier.

CNMSTYLE

The CNMSTYLE member in the DSIPARM data set is used during NetView initialization. Make any changes to CNMSTYLE statements in the CNMSTUSR or C*xx*STGEN member. For information about changing CNMSTYLE statements, see *IBM Tivoli NetView for z/OS Installation: Getting Started*. The CNMSTYLE member is designed to simplify the NetView initialization process.

Table 36 on page 84 shows the CNMSTYLE statements that were removed.

Table 36. CNMSTYLE statements removed

Functions removed	**Statements removed**
Use of z/OS System SSL with the Web Services Gateway function	(NVSOA)NVSP.srvrname.CLNTAUTH (NVSOA)NVSP.srvrname.PASSTHRU (NVSOA)NVSP.srvrname.SESTOUT (NVSOA)NVSP.srvrname.CIPHERSP (NVSOA)NVSP.srvrname.USERCACH (NVSOA)NVSP.srvrname.KEYRING (NVSOA)NVSP.srvrname.PASSWORD[1] (NVSOA)NVSP.srvrname.LABEL (NVSOA)NVSP.srvrname.STH

Note:

1. Defined in CNMSTPWD

For information about new, changed, or deleted CNMSTYLE statements, see “CNMSTNXT” on page 85.

If you want information about...	Refer to...
CNMSTYLE statements	*IBM Tivoli NetView for z/OS Administration Reference*

CNMSTACT

The CNMSTACT member includes the CNMSTAAL member if the IBM Tivoli NetView Monitoring for GDPS product is installed. The CNMSTACT member is used for the GDPS Active/Active Continuous Availability solution.

CNMSTNXT

The CNMSTNXT member contains CNMSTYLE statements that are new, changed, or deleted. Statements are grouped according to version and release level of the NetView product. Review the statements in the CNMSTNXT member and update the CNMSTUSR or C*xx*STGEN member as necessary.

DSICTMOD

DSICTMOD is the NetView constants module that can be updated using sample job CNMS0055. Use the DSICTMOD module shipped with V6R2M1. If you updated CNMS0055 for your current release, merge those changes into the V6R2M1 CNMS0055 sample, submit it to assemble, and link edit your changes into the DSICTMOD module.

The default number of common global variables has increased from 3000 to 5000 variables.

DSIOPF

Starting with V6R2, the DSIOPF member has a new structure.

Table 37. DSIOPF structure. Table lists include members and their description.

Include member	Description
DSIOPFAU	Includes existing AUTO1 and AUTO2 autotasks
DSIOPFEX	Includes sample operator definitions. All sample definitions in the DSIOPFEX member can be modified or deleted without affecting the operation of the NetView program.
DSIOPFIX	Includes operator definitions that cannot be changed. See the comments in the DSIOPFIX member to update necessary passwords.
DSIOPFST	Includes operator definitions for which the operator ID can be changed. The DSIOPFST member includes the following additional members associated with the specified towers: • EZLOPF (AON) • FKVOPF (AON.SNA) • FKXOPF (AON.TCP) • FKXOPFIP (IPMGT) • FLCSOPF (MSM)

Table 37. DSIOPF structure. Table lists include members and their description. *(continued)*	
Include member	**Description**
DSIOPFU	Includes customer-defined operator definitions

If you modified the V6R1 DSIOPF member and you want to use the new structure, copy any changes that you made into the appropriate V6R2M1 member.

Usage note: You can add Data REXX logic to conditionally define operator definitions in DSIOPFU. Data REXX files must have either `/*%DATA*/` or `/*%LOGIC*/` as the first statement. Comments can follow on the same or subsequent lines. A blank in the first column indicates a continuation of the previous statement. For more information about Data REXX, refer to *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

DSIRXPRM

The DSIRXPRM load module contains the REXX initialization parameters that are required to establish a new REXX environment.

Note: If you previously added any REXX initialization parameters to the DSIRXPRM module, delete the previous version of the DSIRXPRM module. As of NetView V6R2, the NetView program is not compatible with previous versions of the DSIRXPRM module.

Define the previously added REXX initialization parameters as follows:

- If you previously added REXX command environments or REXX function package names to the DSIRXPRM module, migrate those changes to the CNMSTYLE (CNMSTUSR or C*xx*STGEN) member by using the following CNMSTYLE statements. For more information about these statements, see the *Administration Reference*.
  - REXX.CMDENV.*name*
  - REXX.FUNCPKGLIST.LCL.*name*
  - REXX.FUNCPKGLIST.SYS.*name*
  - REXX.FUNCPKGLIST.USR.*name*
- If you previously added other REXX initialization parameters to the DSIRXPRM module, merge those changes into the V6R2M1 version of CNMSJM11. Ensure that you deleted the earlier version of the DSIRXPRM module, and then run CNMSJM11 to assemble and link edit your changes into the DSIRXPRM module.

  Note: You must delete the earlier version of the DSIRXPRM module because it was link edited with the RENT attribute whereas the current version is link edited with the REUS attribute.
- If you previously added the system REXX function package for IBM Tivoli System Automation for z/OS to the DSIRXPRM module, drop the modified DSIRXPRM module from your environment. The System Automation INGRXFPG REXX function package is loaded automatically when the SA tower is enabled. If necessary, use the previous migration steps to include other System Automation REXX function packages.

DSITBL01

The DSITBL01 automation table is the default NetView automation table and is required by the NetView program. The DSITBL01 automation table provides basic automation statements to respond to messages and management services units (MSUs). If the DSITBL01 automation table is not activated during NetView initialization, the DWO093W warning message is issued by the NetView program.

Important: If you modify the DSITBL01 automation table, consider that many of the statements are used in the normal operation of the NetView program.

Several messages that are supplied by the NetView product have changed. These messages are listed in the appendixes. Review the list and make any necessary changes to your automation table.

You can add your own automation table by using the AUTOCMD statement in the CNMSTUSR or C*xx*STGEN member. Place your automation table before the DSITBL01 automation table and code CONTINUE(YES) on any local customization to make sure that messages flow to the DSITBL01 automation table. For more information on the AUTOCMD statement, refer to the *IBM Tivoli NetView for z/OS Administration Reference*.

DSIZVLSR

The DSIZVLSR module defines the buffer pools to be used with the VSAM LSR and DSR performance options. Update the DSIZVLSR module by using the CNMSJM01 sample job. Use the DSIZVLSR module shipped with V6R2M1. If you previously updated the CNMSJM01 job, merge those changes into the V6R2M1 version of the CNMSJM01 job and run it to assemble and link edit your changes into the DSIZVLSR module.

The following change was made to the DSIZVLSR module:

- Removed TARA support (BNJDSE36).

RODM Address Space

The samples in this section list changes for the RODM address space.

EKGLOADP

EKGLOADP is the sample RODM load procedure JCL.

Make the following changes to the EKGLOADP member:

1. For NetView data sets, ensure your high-level qualifier for system data sets points to NETVIEW.V6R2M1.

EKGXRODM

The EKGXRODM member is the RODM start procedure.

Make the following changes to the EKGXRODM member:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.

GMFHS Address Space

The samples in this section list changes for the GMFHS address space.

CNMGMFHS (CNMSJH10)

The CNMGMFHS (CNMSJH10) member is the GMFHS start procedure.

Make the following changes to the CNMGMFHS member:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.

Event/Automation Service Address Space

The sample in this section lists changes for the Event/Automation Service address space.

IHSAECDS

The IHSAECDS member in the SCNMUXCL data set contains class definition statements that are used by the event receiver task (EVENTRCV) of the Event/Automation Service (E/AS) to map inbound Event Integration Facility (EIF) events to alerts or to resolve Network Management Vector Transports (NMVTs).

IHSAEVNT

The IHSAEVNT member starts the Event/Automation Service address space. Make the following changes to the IHSAEVNT member in your PROCLIB data set:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.

Additional Considerations

Consider changes to the following functions:

- "Message Logging" on page 88
- "NetView for z/OS and Tivoli NetView for z/OS Enterprise Management Agent Versions" on page 88
- "NetView Web Application" on page 89
- "Sysplex and Enterprise Management" on page 89
- "UNIX System Services" on page 89
- "Web Services Gateway" on page 89

Message Logging

With NetView V6R2M1 APARs OA55071 and OA55074, changes have been made to the format of the Canzlog data space (CNMCANZ0). If a NetView V6R1 instance will be running on the same LPAR as a NetView V6R2M1 instance with the specified APARs applied, the NetView V6R1 instance must have compatibility APAR OA56127 applied.

NetView for z/OS and Tivoli NetView for z/OS Enterprise Management Agent Versions

The Tivoli NetView for z/OS Enterprise Management Agent (NetView agent) requires Tivoli Management Services V6.3.0 Fixpack 2. If you are not currently running at this level, upgrade the following components to the V6.3.0 Fixpack 2 level before you install the NetView agent:

- Tivoli Enterprise Portal desktop client
- Tivoli Enterprise Portal Server
- Hub Tivoli Enterprise Monitoring Server

Because the NetView program is the data source for the NetView agent, both the NetView program and the NetView agent must be at the v6.2.1 level.

Before upgrading the NetView agent, review the *IBM Tivoli OMEGAMON XE and Tivoli Management Services on z/OS Upgrade Guide*. The general order of upgrade procedures documented for the OMEGAMON XE V5.1 and later monitoring agents also applies to the NetView agent.

Prior to IBM Tivoli Monitoring V6.2.3, before an agent could connect to a Tivoli Enterprise Monitoring Server, you were required to manually update the monitoring server (and other Tivoli Management

Services components such as the Tivoli Enterprise Portal Server and the Tivoli Data Warehouse) with information necessary for the monitoring server to recognize and process data sent by that agent. As of V6.2.3, this *seeding* step becomes unnecessary. The NetView agent has been enhanced with the optional self-description feature that automatically distributes the operating configuration directly to the local monitoring server, which then distributes those agent configuration files first to the hub monitoring server (if necessary) and then to the various IBM Tivoli Monitoring components that require it.

For a list of changes to the NetView agent, see the following information:

- For changes made in Version 6.2.1, see "Enterprise Management Agent Changes" on page 200.
- For changes made in Version 6.2, see "Enterprise Management Agent Changes" on page 186.

NetView Web Application

Uninstall the current version of your NetView web application and reinstall the V6R2M1 version of the NetView web application. For installation details, refer to the *netview_installation_dir*/doc/znetview_webapp_readme_en.htm file and the *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* manual.

The web application uses the Application Transparent Transport Layer Security (AT-TLS) function for secure communication. If you enable secure connection between the NetView program and the web application server, you must configure the secure inbound connection for AT-TLS. For more information about controlling access, see the IBM Tivoli NetView for z/OS Security Reference.

Removed task

The open 3270 console task was removed from the NetView web application. Statements and mappings for the cnm01_3270Screen servlet were removed from the web.xml file. If you are using a V6R1 or earlier version of the web.xml file, this statement is ignored.

Sysplex and Enterprise Management

The output of the NVSTAT command has changed. In the BNH495I message, column ranges for fields starting with column 36 have changed. See the NetView online help for the correct columns.

NetView has added support for OSA-Express5S adapters. Some columns in the Tivoli Enterprise Portal OSA Channels and Ports workspace support additional values, as does message BNH597I (the output from the OSAPORT and CNMOSAP commands). Column 6 (hardware level), columns 8-11 and 51-54 (subtype and port type), and column 92 (speed mode) have changed. See the NetView online help for details.

UNIX System Services

Some directories, configuration files, and functions changed from NetView V6R1 to NetView V6R2M1. Also review the section in "Preparing UNIX System Services" on page 17.

Web Services Gateway

The Web Services Gateway function is updated to use Application-Transparent Transport Layer Security (AT-TLS) for secure communication instead of using z/OS System SSL directly. If you use the Web Services Gateway function with secure communications enabled, you must configure AT-TLS to secure inbound connections to the server. If AT-TLS is not configured for the NetView Web Services server and the CNMSTYLE NVSP.srvrname.SECURE statement is set to YES, all inbound connections are rejected. See information about controlling the access to the Web Services Gateway function in the *Security Reference*.

Chapter 6. Migrating from Tivoli NetView for z/OS V6R2

When you are migrating from the Tivoli NetView for z/OS V6R2, you can either add the NetView V6R2M1 content into your V6R2 NetView definitions, or add your V6R2 customization to the default V6R2M1 members supplied with the NetView program. Either way, place the customized member into an appropriate user-allocated data set such as NETVIEW.V621USER.CNM01.DSIPARM. Do not customize members in the SMP/E-managed data sets such as NETVIEW.V6R2M1.DSIPARM.

Usage note: The migration information is based on the NetView components that are supplied with the initial release of V6R2M1. Review your maintenance to see if you already made some of the changes.

Several factors can influence the method that you use when migrating your NetView definition members. Factors such as the size and complexity of your network, security policies that must be followed, and established practices within your business can all influence what is the best method for your migration. The checklist that follows details the documented method of migration as outlined in this book and supported by other books in the NetView library. Choose the method of migration that is best for you.

Do the following steps to migrate your V6R2 definitions:

1. Allocate a new set of V6R2M1 user data sets by running the CNMSJ002 sample job. You did this when you completed the steps in Table 13 on page 18.
2. Define a unique &NV2I value (*xx*) for each NetView domain.
3. Review your customized V6R2 copy of the CNMSTYLE member. If you did not already do so, move all of your domain-specific customization of V6R2 CNMSTYLE statements into the C*xx*STGEN member and all of your system-wide customization of V6R2 CNMSTYLE statements into the CNMSTUSR member. Do not copy your V6R2 CNMSTYLE member into the V6R2M1 user DSIPARM data set.
4. Review the CNMSTYLE information in this chapter and the V6R2M1 CNMSTNXT member that is included with the NetView program. Place any domain-specific customization of CNMSTYLE statements into the C*xx*STGEN member and any system-wide customization of CNMSTYLE statements into the CNMSTUSR member. Do not modify the V6R2M1 default CNMSTYLE member.
5. Review the remaining information in this chapter, and migrate your V6R2 NetView definition members and JCL procedures as appropriate, placing only those members that were modified into the V6R2M1 user data sets.

Figure 5 on page 92 shows the NetView V6R2M1 initialization flow. Keep this new initialization flow in mind as you make changes to your DSIPARM members.

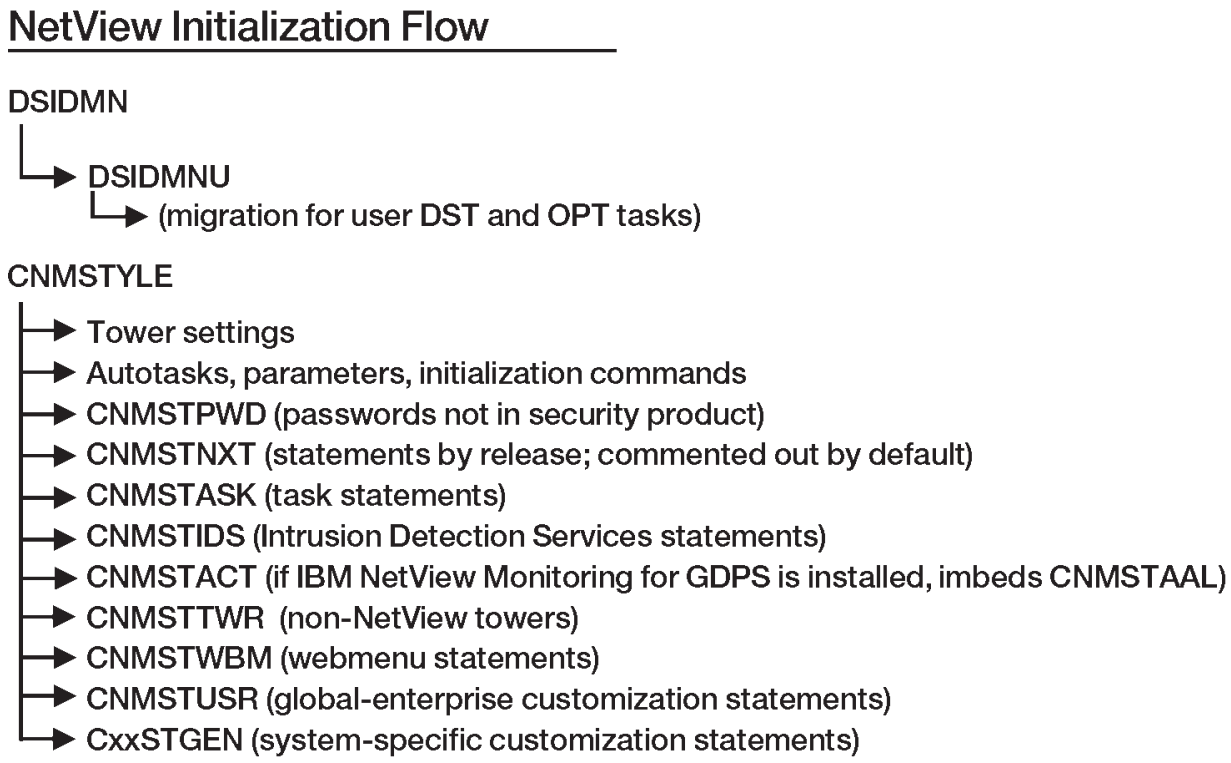


Figure 5. NetView Initialization Flow

For changes by release, including changed panels, commands, messages, and samples, see the following appendixes:

- Appendix D, “Changes from Tivoli NetView for z/OS V6R2 to Tivoli NetView for z/OS Version V6R2M1,” on page 193

New Samples

Table 38 on page 92 lists new samples to review during migration.

Table 38. List of New Samples

Distributed As	Name	Description	Data Set Name
CNMS8053	same	Saves long global variables	CNMSAMP
CNMS8054	same	Restores long global variables	CNMSAMP
CNMSCATU	same	User-defined command authorization table definitions	DSIPARM
CNMSCSFM	same	Command Statistics Data Formatter	CNMSAMP
CNMSCSIE	same	Command Statistics Include and Exclude Definitions	CNMSAMP
CNMSCSSU	same	Command Statistics Summary Data	CNMSAMP
CNMSDSCP	same	Command Statistics Data Processor	CNMSAMP
CNMSJM15	same	Migrates the save/restore (DSISVRT) VSAM cluster	CNMSAMP

Table 38. List of New Samples (continued)

Distributed As	Name	Description	Data Set Name
CNMSTACT	same	This sample includes the CNMSTAAL member if the IBM Tivoli NetView Monitoring for GDPS product is installed. The CNMSTACT member is used for the GDPS Active/Active Continuous Availability solution.	SAQNPARM

VTAM Address Space

The following samples list changes for the VTAM address space.

CNMNET (CNMSJ008)

CNMNET (CNMSJ008) is the start procedure for the VTAM program.

Change CNMNET in your PROCLIB in the following way:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.

NetView Address Space

The following samples list changes for the NetView address space.

CNMPROC (CNMSJ009)

CNMPROC (CNMSJ009) is the start procedure for the NetView program.

Make the following changes to the CNMPROC member in your PROCLIB data set:

1. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.
2. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.

CNMPSSI (CNMSJ010)

The CNMPSSI (CNMSJ010) member starts the NetView subsystem address space.

Make the following changes to the CNMPSSI member in your PROCLIB data set:

1. Ensure that the high-level qualifier for system data sets points to NETVIEW.V6R2M1.

CNMSCAT2

DSIPARM member CNMSCAT2 contains the sample command authorization table.

CNMSCATU

With NetView for z/OS V6.2.1 APAR OA48179, a sample command authorization table named CNMSCATU is provided in the DSIPARM data set. This sample is included by DSIPARM member CNMSCAT2 and is intended for user command authorization table entries.

When using CNMSCATU, review and make any necessary modifications to CNMSCAT2, while considering the following rules:

- If you have more than one PROTECT statement that describes the same command, keyword and value, the first statement is used and all others are ignored.
- More than one PERMIT statement can be specified for the same command identifier.

CNMSTYLE

The CNMSTYLE member in the DSIPARM data set is used during NetView initialization. Make any changes to CNMSTYLE statements in the CNMSTUSR or C*xx*STGEN member. For information about changing CNMSTYLE statements, see *IBM Tivoli NetView for z/OS Installation: Getting Started*. The CNMSTYLE member is designed to simplify the NetView initialization process.

For information about new, changed, or deleted CNMSTYLE statements, see "CNMSTNXT" on page 85.

If you want information about...	Refer to...
CNMSTYLE statements	*IBM Tivoli NetView for z/OS Administration Reference*

CNMSTACT

The CNMSTACT member includes the CNMSTAAL member if the IBM Tivoli NetView Monitoring for GDPS product is installed. The CNMSTACT member is used for the GDPS Active/Active Continuous Availability solution.

CNMSTNXT

The CNMSTNXT member contains CNMSTYLE statements that are new, changed, or deleted. Statements are grouped according to version and release level of the NetView product. Review the statements in the CNMSTNXT member and update the CNMSTUSR or C*xx*STGEN member as necessary.

DSICTMOD

DSICTMOD is the NetView constants module that can be updated using sample job CNMS0055. Use the DSICTMOD module shipped with V6R2M1. If you updated CNMS0055 for your current release, merge those changes into the V6R2M1 CNMS0055 sample, submit it to assemble, and link edit your changes into the DSICTMOD module.

The default number of common global variables has increased from 3000 to 5000 variables.

DSIOPF

Starting with V6R2, the DSIOPF member has a new structure.

Table 39. DSIOPF structure. Table lists include members and their description.

Include member	Description
DSIOPFAU	Includes existing AUTO1 and AUTO2 autotasks
DSIOPFEX	Includes sample operator definitions. All sample definitions in the DSIOPFEX member can be modified or deleted without affecting the operation of the NetView program.
DSIOPFIX	Includes operator definitions that cannot be changed. See the comments in the DSIOPFIX member to update necessary passwords.

Table 39. DSIOPF structure. Table lists include members and their description. *(continued)*	
Include member	**Description**
DSIOPFST	Includes operator definitions for which the operator ID can be changed. The DSIOPFST member includes the following additional members associated with the specified towers: • EZLOPF (AON) • FKVOPF (AON.SNA) • FKXOPF (AON.TCP) • FKXOPFIP (IPMGT) • FLCSOPF (MSM)
DSIOPFU	Includes customer-defined operator definitions

If you modified the V6R2 DSIOPF member and you want to use the new structure, copy any changes that you made into the appropriate V6R2M1 member.

Usage note: You can add Data REXX logic to conditionally define operator definitions in DSIOPFU. Data REXX files must have either `/*%DATA*/` or `/*%LOGIC*/` as the first statement. Comments can follow on the same or subsequent lines. A blank in the first column indicates a continuation of the previous statement. For more information about Data REXX, refer to *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

DSIZVLSR

The DSIZVLSR module defines the buffer pools to be used with the VSAM LSR and DSR performance options. Update the DSIZVLSR module by using the CNMSJM01 sample job. Use the DSIZVLSR module shipped with V6R2M1. If you previously updated the CNMSJM01 job, merge those changes into the V6R2M1 version of the CNMSJM01 job and run it to assemble and link edit your changes into the DSIZVLSR module.

The following change was made to the DSIZVLSR module:

- Removed TARA support (BNJDSE36).

RODM Address Space

The samples in this section list changes for the RODM address space.

EKGLOADP

EKGLOADP is the sample RODM load procedure JCL.

Make the following changes to the EKGLOADP member:

1. For NetView data sets, ensure your high-level qualifier for system data sets points to NETVIEW.V6R2M1.

EKGXRODM

The EKGXRODM member is the RODM start procedure.

Make the following changes to the EKGXRODM member:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.

2. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.

GMFHS Address Space

The samples in this section list changes for the GMFHS address space.

CNMGMFHS (CNMSJH10)

The CNMGMFHS (CNMSJH10) member is the GMFHS start procedure.

Make the following changes to the CNMGMFHS member:

1. For NetView data sets, ensure that your high-level qualifier for system data sets points to NETVIEW.V6R2M1.
2. For NetView data sets, ensure that your high-level qualifier for user-defined data sets points to NETVIEW.V621USER.

Additional Considerations

Consider changes to the following functions:

- "Message Logging" on page 96
- "Sysplex and Enterprise Management" on page 96
- "NetView for z/OS and Tivoli NetView for z/OS Enterprise Management Agent Versions" on page 96

Message Logging

With NetView V6R2M1 APARs OA55071 and OA55074, changes have been made to the format of the Canzlog data space (CNMCANZ0). If a NetView V6R2 instance will be running on the same LPAR as a NetView V6R2M1 instance with the specified APARs applied, the NetView V6R2 instance must have compatibility APAR OA56128 applied.

Sysplex and Enterprise Management

The output of the NVSTAT command has changed. In the BNH495I message, column ranges for fields starting with column 36 have changed. See the NetView online help for the correct columns.

NetView has added support for OSA-Express5S adapters. Some columns in the Tivoli Enterprise Portal OSA Channels and Ports workspace support additional values, as does message BNH597I (the output from the OSAPORT and CNMOSAP commands). Column 6 (hardware level), columns 8-11 and 51-54 (subtype and port type), and column 92 (speed mode) have changed. See the NetView online help for details.

NetView for z/OS and Tivoli NetView for z/OS Enterprise Management Agent Versions

The Tivoli NetView for z/OS Enterprise Management Agent (NetView agent) requires Tivoli Management Services V6.3.0 Fixpack 2. If you are not currently running at this level, upgrade the following components to the V6.3.0 Fixpack 2 level before you install the NetView agent:

- Tivoli Enterprise Portal desktop client
- Tivoli Enterprise Portal Server
- Hub Tivoli Enterprise Monitoring Server

The NetView program is the data source for the NetView agent. Because of this, both the NetView program and the NetView agent must be at the v6.2.1 level.

Before upgrading the NetView agent, review the *IBM Tivoli OMEGAMON XE and Tivoli Management Services on z/OS Upgrade Guide*. The general order of upgrade procedures documented for the OMEGAMON XE V5.1 and later monitoring agents also applies to the NetView agent.

Prior to IBM Tivoli Monitoring V6.2.3, before an agent could connect to a Tivoli Enterprise Monitoring Server, you were required to manually update the monitoring server (and other Tivoli Management Services components such as the Tivoli Enterprise Portal Server and the Tivoli Data Warehouse) with information necessary for the monitoring server to recognize and process data sent by that agent. As of V6.2.3, this *seeding* step becomes unnecessary. The NetView agent has been enhanced with the optional self-description feature that automatically distributes the operating configuration directly to the local monitoring server, which then distributes those agent configuration files first to the hub monitoring server (if necessary) and then to the various IBM Tivoli Monitoring components that require it.

For a list of changes to the NetView agent that were made in Version 6.2.1, see "Enterprise Management Agent Changes" on page 200.

Chapter 7. Getting Ready to Start NetView

When you start the NetView program, you use two START procedures, one for the NetView application (CNMPROC (CNMSJ009)) and one for the NetView subsystem (CNMPSSI (CNMSJ010)). It does not matter which you start first. If you start a second copy of the NetView program, create an additional pair of start procedures whose names are based on a second subsystem name.

Modifying the NetView and Subsystem Application Procedure

About this task

Review the copies of CNMPROC (CNMSJ009) and CNMPSSI (CNMSJ010) supplied with the V6R2M1 samples for the following considerations:

- The NetView program derives the 4-character subsystem name from the first 4 characters of the job name of the started task. The job name by default is the same as the procedure name, unless specified by the JOBNAME keyword. The sample procedures do not specify JOBNAME. Because of this, the name of the PROCLIB member and the PROC statement must begin with the 4-character subsystem name that you defined for running the NetView program. The associated CNMPSSI (CNMSJ010) start procedure must also begin with the same subsystem name. CNMP is used in the sample network.

  Note: If the PROCLIB member name matches an entry in IEFSSN*xx*, use the SUB= parameter with the START command to specify a subsystem other than the MASTER subsystem. Specify a subsystem where SYSIN and SYSOUT are not supported.
- If you start a second copy of the NetView program in the same host, you must use a procedure name that begins with a 4-character subsystem name that is different from the one you have already started.

  Tip: Remember to add any 4-character subsystem name to the IEFSSN*xx* member in SYS1.PARMLIB.
- You can adjust the symbolic parameters in the sample CNMPSSI (CNMSJ010) procedure to meet your installation requirements. You can also adjust these parameters using the SSI statement in the CNMSTYLE member.

Modifying the NetView Startup Procedure

About this task

CNMPROC (CNMSJ009) was copied to the PROCLIB when you loaded partitioned data sets during installation. Make the following changes to the NetView startup procedure (CNMPROC):

- Set the value for &NV2I if you are running more than one NetView program on a system or sysplex.
- Change the name of the program that starts NetView if you do not want to use the SVC76 interface for local device alerts.
- Ensure that the NetView dispatch priority is adequate.
- Adjust the region size, buffer size, and slot size if necessary.
- Ensure that your user-defined data sets are included.
- Ensure that the SYSTCPD statement specifies your TCP/IP control data set.

Defining TCP/IP to the NetView Program

The NetView program provides services that rely on TCP/IP to communicate with remote applications. To communicate with TCP/IP, each of these services use a program function library, referred to as the TCP/IP socket library. This makes the NetView application a TCP/IP socket application.

Any TCP/IP socket application must reference TCP/IP configuration data. The method of accessing this data is defined by z/OS Communications Server.

An example SYSTCPD DD statement is provided in the NetView startup procedure to identify the location of TCP/IP configuration data. A SYSTCPD statement is not required for the NetView program, but any TCP/IP socket application must be able to locate TCP/IP configuration data.

You also need access to z/OS TCP/IP data sets from the NetView start procedure. If the z/OS TCP/IP data sets are not contained in the LNKLST concatenation, add the following z/OS TCP/IP data set (which must be APF-authorized) to the STEPLIB DD concatenation:

SEZALOAD
Executable load modules for concatenation to LINKLIB

To optimize performance, make these data sets available from the LNKLST concatenation.

Ensure that the user ID that is associated with the NetView started task or job is defined to your SAF product with an OMVS segment. This is required so that the NetView program can use z/OS UNIX System Services (USS) functions, which include TCP/IP functions.

Usage notes:

1. For each of the TCP/IP services that is provided by the NetView program, the stack affinity is specified in the CNMSTYLE member using the TCPname statement. Using this name, NetView sets the stack affinity by specifying it on an INITAPI socket call.
2. Some NetView applications that are not a part of the NetView address space rely on TCP/IP to communicate with remote applications. Some of these applications use the z/OS UNIX socket library. These applications are therefore z/OS UNIX socket applications. Information on how these applications reference TCP/IP configuration data is discussed in the books describing those applications. Examples of z/OS UNIX socket applications are the Event/Automation Service and the UNIX command server.

If you want information about...	Refer to...
TCP/IP socket applications, SYSTCPD DD statement	*z/OS Communications Server IP Configuration Guide*

Updating the CNMSTYLE Member

CNMSTYLE is a member of DSIPARM that is used during NetView initialization. Changes to the NetView initialization process are made in CNMSTUSR or C*xx*STGEN.

The member name for CNMSTYLE is controlled by the value of &NV2I in the NetView start procedure. The NetView default value for &NV2I is NM. If you specify a value for &NV2I (*xx*), NetView reads C*xx*STYLE in DSIPARM for initialization parameters. If this member is not found, NetView reads the CNMSTYLE member instead. The included member C*xx*STGEN is also resolved using the value of &NV2I for *xx*.

The sample CNMSTYLE member in DSIPARM contains descriptive comments about the types of statements that are included in the member. Read the comments and review the defaults. The sections that follow provide additional details for some of the NetView functions.

If you want information about...	Refer to...
CNMSTYLE Processing	*IBM Tivoli NetView for z/OS Installation: Getting Started*
CNMSTYLE statements	Comments in the CNMSTYLE member and *IBM Tivoli NetView for z/OS Administration Reference*

Customizing the CNMSTYLE Member

Customize the CNMSTYLE member by making global (enterprise) changes to the CNMSTUSR member, and then copying the modified CNMSTUSR member to each NetView system.

You can make system-specific changes to the C*xx*STGEN member that is included in the CNMSTYLE member using the %INCLUDE statement (where *xx* is the value of &NV2I, which is initially set to NM). Code all override statements for the CNMSTYLE and CNMSTUSR members in this member. Duplicate statements found in the C*xx*STGEN member override earlier statements in the CNMSTYLE and CNMSTUSR members. You can specify the value of NV2I in the NetView start procedure.

You can use Data REXX in the members that are included in the CNMSTYLE member using the %INCLUDE statement. Data REXX is not supported in the CNMSTYLE member. Instead, you can define tower and subtower conditions in the CNMSTUSR or C*xx*STGEN members to control the statements in the CNMSTYLE member.

Note: If you make changes to the included members while the NetView program is running, the changes become effective when you recycle the NetView program. For certain types of changes, you can use the RESTYLE command to activate these changes without recycling the NetView program. For more information on the types of changes that can be activated using the RESTYLE command, see the NetView online help or *IBM Tivoli NetView for z/OS Command Reference Volume 2 (O-Z)*.

If you want information about...	Refer to...
RESTYLE command	NetView online help or *IBM Tivoli NetView for z/OS Command Reference Volume 2 (O-Z)*

Using %INCLUDE Members

The following members are included when the CNMSTYLE member initializes:

Member
Usage

CNMSTACT
Includes the CNMSTAAL member if the IBM Tivoli NetView Monitoring for GDPS product is installed. The CNMSTACT member is used for the GDPS Active/Active Continuous Availability solution.

CNMSTPWD
If needed, you can use this member to include VPD, VSAM, and ACB passwords. You can use the READSEC command to protect the CNMSTPWD member from being displayed by the BROWSE command.

CNMSTNXT
Includes modifiable CNMSTYLE statements by release. The CNMSTNXT member is commented out in the CNMSTYLE member. It is provided for documentation purposes only.

CNMSTASK
Task statements that are provided with the NetView program. Do not modify this member. Instead, include any task statements that you want to include directly in the CNMSTUSR or C*xx*STGEN member. The task statements in the CNMSTUSR and C*xx*STGEN member override those that are provided in the CNMSTASK member.

CNMSTIDS
Includes Intrusion Detection Services (IDS) statements. Review this member if you are enabling IDS support.

CNMSTTWR
Includes statements from non-NetView towers. Do not edit this member unless instructed by documentation for a tower you are installing.

CNMSTWBM
Includes webmenu statements.

CNMSTUSR
You can include global (enterprise) definition statements that override statements in the CNMSTYLE member. Use this member to customize the CNMSTYLE member. You can use Data REXX logic.

Note: You can also use the %INCLUDE statement in this member to include other members of your choosing.

C&NV2I.STGEN
You can include system-specific definition statements in this member, including Data REXX logic.

Note: You can also use the %INCLUDE statement in this member to include other members of your choosing.

Using System Symbols

Many NetView processes require the RODM name, NetView domain, TCP name, and network ID. CNMSTYLE processing sets NetView symbols for these names. You can also set MVS system symbols for the RODM name, TCP name, and network ID in member IEASYM*xx* in SYS1.PARMLIB. If you choose to set a system symbol for the network ID, it must be the same as the value returned by VTAM when NetView opens its ACB.

Table 40. NetView symbols defined in the CNMSTYLE member

NetView symbol	Description	CNMSTYLE Statement
&CNMNETID	Network ID	**NetID**=&CNMNETID.
&CNMRODM	RODM Name	**RODMname** = &CNMRODM. **Note:** This statement is ignored if you are not using RODM.
&CNMTCPN	TCP name	**TCPname**=&CNMTCPN.
&DOMAIN	NetView domain	**DOMAIN**=C&NV2I.01 (default value is CNM01) **Note:** This identifier is the access method control block (ACB) name that is listed on the VTAM APPL statement.

Note:

1. If you specified the NetView domain ID or password in the CNMPROC (CNMSJ009) procedure, the DOMAIN or the ACBpassword statements in the CNMSTYLE member are not used. They are ignored unless the parameters passed by the CNMPROC procedure are null. If the domain password is not specified in the CNMPROC procedure or in the CNMSTYLE member, the domain name becomes the password.
2. The system symbols that are set in IEASYM*xx* are enabled for all address spaces. NetView symbols that are set using global variables that you set through the CNMSTYLE member only apply to this NetView address space.

Using STYLEVAR

Use STYLEVAR to define variables that can be used anywhere within the CNMSTYLE member (except for the command phase). You can use these variables to simplify the process of entering repetitious data.

Note:

1. System symbolic names are not valid names for STYLEVAR variable names.
2. STYLEVAR variable values cannot contain another STYLEVAR variable.

If you want information about...	Refer to...
STYLEVAR statement	Comments in the CNMSTYLE member and *IBM Tivoli NetView for z/OS Administration Reference*

Activating NetView Components

NetView components can be activated with TOWER statements. Tower statements are examined earlier in the initialization process than most other variables (for example, common global variables). This is useful, for example, to conditionally control the initialization process.

This is an example of the default TOWER statement:

```
TOWER = *SA  *AON  *MSM  *Graphics  NPDA NLDM TCPIPCOLLECT
  *AMI *DVIPA *TEMA *IPMGT *NVSOA DISCOVERY
```

Usage notes:

1. A tower is enabled if it is not preceded by an asterisk. To enable a tower, remove the asterisk (*) before the tower name.
2. To disable a tower, add a MODIFY.TOWER statement with a minus sign. For example:

   ```
   MODIFY.TOWER.sortkey = -NLDM
   ```

3. If multiple TOWER statements exist, the last TOWER statement encountered is processed. It is important to remember that modified TOWER statements are not recognized until NetView is restarted.

You can use modify statements (MODIFY.TOWER) to enable specific components within a tower. The following are some examples of statements enabling or disabling subtowers:

```
MODIFY.TOWER.sortkey = +AON.SNA +AON.TCP
MODIFY.TOWER.sortkey = -DISCOVERY.INTERFACES -DISCOVERY.TELNET
MODIFY.TOWER.sortkey = -DISCOVERY.INTERFACES.OSA
MODIFY.TOWER.sortkey = +DISCOVERY.INTERFACES.HIPERSOCKETS
MODIFY.TOWER.sortkey = +DVIPA.DVTAD +DVIPA.DVCONN
MODIFY.TOWER.sortkey = +Graphics.SNATM
MODIFY.TOWER.sortkey = +IPMGT.ACTMON +IPMGT.IDS
MODIFY.TOWER.sortkey = +MSM.ITNM -MSM.OPN
MODIFY.TOWER.sortkey = +TCPIPCOLLECT.TCPCONN
MODIFY.TOWER.sortkey = +TCPIPCOLLECT.PKTS
MODIFY.TOWER.sortkey = +TEMA.HEALTH +TEMA.OSA
```

Note that the "sortkey" values indicate the order of processing and must all be different. A plus sign indicates an item is being enabled and a minus sign indicates an item is being disabled. For any attempt to enable or disable a subtower to be effective, the tower must have previously been enabled.

Review the subtower statements that are associated with the towers that are supplied with the NetView product that you enable. To enable a subtower, create a MODIFY.TOWER statement in the CNMSTUSR or CxxSTGEN member. To enable or disable any tower or subtower, you must recycle the NetView program, so review these statements carefully. If you plan on implementing any of the tower and subtower components, consider enabling the functions during this step in the installation process.

Table 41 on page 103 lists the towers and subtowers that are provided with the NetView program:

Table 41. CNMSTYLE towers and subtowers

Tower	Enables	Subtower	Enables
AMI	Application Management Instrumentation	None	

Table 41. CNMSTYLE towers and subtowers (continued)

Tower	Enables	Subtower	Enables
AON	Network automation (AON component)	SNA	SNA automation. Subtower: **X25** AON/SNA X.25 support
		TCP	TCP/IP automation. Subtower: **IDS** Intrusion Detection Services (IDS) support
DISCOVERY	Discovery of sysplexes, z/OS systems, coupling facilities, TCP/IP stacks, TCP/IP subplexes, and NetView applications	INTERFACES	Discovery of IP interface information. Subtowers: **OSA** Discovery of OSA channels and ports. **HIPERSOCKETS** Discovery of HiperSockets configuration and status information.
		TELNET	Discovery of Telnet servers and ports.
DVIPA	Discovery of dynamic virtual IP address (DVIPA) definition and status data	DVCONN	Discovery of DVIPA connections data.
		DVROUT	Discovery of VIPA routes and distributed DVIPA connection routing data.
		DVTAD	Discovery of DVIPA sysplex distributors, distributed DVIPA targets, distributed DVIPA server health statistics, and distributed DVIPA statistics (if enabled).
GRAPHICS	NetView Management console	SNATM	SNA Topology Manager.
IPMGT	IP management	ACTMON	Active monitoring for IP resources without enabling the AON tower.
		IDS	Intrusion Detection automation without enabling the AON tower.
MSM	MultiSystem Manager	ITNM	IBM Tivoli Network Manager
		OPN	Open function.
NLDM	Session monitor	None	
NPDA	Hardware monitor	None	
NVSOA	Web Services Gateway	None	

Table 41. CNMSTYLE towers and subtowers (continued)

Tower	Enables	Subtower	Enables
SA	System Automation for z/OS	None	
TCPIPCOLLECT	Collection of TCP/IP connection and packet trace data	TCPCONN	Monitoring of IP connections.
		PKTS	Collection of packets.
TEMA	Communication with the Tivoli NetView for z/OS Enterprise Management Agent. **Usage Note:** Do not enable the TEMA tower unless you are installing the Tivoli NetView for z/OS Enterprise Management Agent. Only enable the TEMA tower on one NetView program for each LPAR.	CONINACT	Collection and display of inactive TCP/IP connections.
		CONNACT	Collection and display of active TCP/IP connections.
		DVCONN	Display of DVIPA connections.
		DVDEF	Display of DVIPA definition and status data
		DVROUT	Display of VIPA route and distributed DVIPA connection routing data.
		DVTAD	Display of distributed DVIPA data.
		HEALTH	Collection and display of NetView task data.
		HIPERSOCKETS	Display of HiperSockets configuration and status information. (Requires RODM.)
		OSA	Display of OSA channels and ports information. (Requires RODM.)
		SESSACT	Collection and display of active sessions. The SESSACT subtower is only supported in one NetView program per system.
		SYSPLEX	Display of stack configuration and status data.
		TELNET	Display of Telnet servers and Telnet server port information.

If you want information about...	Refer to...
AON, hardware monitor, session monitor	*IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*
MultiSystem Manager subtowers	*IBM Tivoli NetView for z/OS Installation: Configuring Graphical Components*
Tivoli NetView for z/OS Enterprise Management Agent tower and subtowers	*IBM Tivoli NetView for z/OS Installation: Configuring the NetView Enterprise Management Agent*

Setting up Security

You can use the SECOPTS statement to specify levels of security:

- Operator security

- Command authority
- Span of control authority
- Web browser access

If you want information about...	Refer to...
Security options	*IBM Tivoli NetView for z/OS Security Reference*
SECOPTS keywords	*IBM Tivoli NetView for z/OS Administration Reference*

Specifying Commands to Run Automatically When the NetView Program Is Started

To define a command or a command list to run automatically when the NetView program is started, use the auxInitCmd statement in CNMSTUSR or C*xx*STGEN. You can specify any number of commands or command lists to be run. The EBCDIC value following the auxInitCmd keyword determines the order the commands are run.

An example follows:

```
auxInitCmd.A  = MSG SYSOP,Auxiliary commands beginning.
auxInitCmd.AC = LISTVAR
```

In this case, the MSG SYSOP command (A) runs before the LISTVAR command (AC).

Note: These AuxInitCmd commands run before any commands at any autotask. All commands for autotasks, including both task initial command lists and commands sent by EXCMD, are queued and held up. They run only after all AuxInitCmds have completed. Messages are also queued; they are not submitted to automation nor logged until all AuxInitCmds have completed.

If you want information about...	Refer to...
Creating a command list to run at NetView initialization	*IBM Tivoli NetView for z/OS Programming: REXX and the NetView Command List Language*

Starting the NetView Subsystem Interface

You can start the NetView Subsystem Interface (SSI) by using the SSI.ProcString statement in CNMSTUSR or C*xx*STGEN:

```
SSI.ProcString = CNMPSSI.SS,SUB=MSTR,ARM='*ARM'
```

Specify the procedure name (for example, CNMPSSI). The NetView program provides a value for the PPIOPT parameter. You can also specify additional start parameters (such as SUB=MSTR) that are required for your installation.

Note: Do not specify the PPIOPT parameter on the SSI.ProcString statement because the NetView program adds this parameter during processing. To update this value, use the SSI.PPI statement.

If you specify *NONE* for SSI.ProcString statement, the CNMCSSIR task does not start the SSI procedure. This is the default.

If you want information about...	Refer to...
Starting the SSI using CNMPSSI	Information about modifying the NetView subsystem interface procedure in *IBM Tivoli NetView for z/OS Installation: Getting Started*
SSI CNMSTYLE statements	Comments in the CNMSTYLE member and *IBM Tivoli NetView for z/OS Administration Reference*

Specifying Initialization Values for NetView Components

The initialization values for some NetView components are specified in the CNMSTYLE initialization member. Table 42 on page 107 lists the NetView components that have primary tasks that use an initialization member in the DSIPARM data set. The initialization member requires information from the CNMSTYLE member. If you are not using the initialization member that is available with the NetView V6R2M1 program, migrate your customization to the CNMSTUSR or C*xx*STGEN member and remove your customized initialization member from the DSIPARM concatenation.

Table 42. NetView Component Initialization

NetView Component	Primary Task Name	Initialization Member	CNMSTYLE Statement Prefix
CNM data transfer	*domid*LUC	DSILUCTD	LUC.*
Get-host-by task	DUIDGHB	DUIIGHB	GHB.*
Hardware monitor	BNJDSERV	BNJMBDST	NPDA.*
IP log	DSIIPLOG	DSIILGCF	IPLOG.*
LU 6.2 communication	DSIUDST	DSIUINIT	RMTINIT.*
Resource status monitor	CNMTAMEL	DUIISFP DUIFPMEM	TAMEL.*
REXEC server	DSIRXEXC	DSIREXCF	REXEC.*
RSH server	DSIRSH	DSIRSHCF	RSH.*
Session monitor	DSIAMLUT AAUTSKLP	DSIAMLTD AAUPRMLP	NLDM.*
TCP/IP alert receiver	DSIRTTR	DSIRTTTD	RTT.*
Web server interface task	DSIWBTSK	DSIWBMEM	WEB.*

If you want information about...	Refer to...
CNMSTYLE statements	*IBM Tivoli NetView for z/OS Administration Reference*

Listing the Active CNMSTYLE Member Name

About this task

The common global variable CNMSTYLE.STYLE is set to the name of the CNMSTYLE member read. To list the active CNMSTYLE member, enter:

```
QRYGLOBL COMMON VARS=CNMSTYLE.STYLE
```

Using the Report Generator

You can use the CNMSTYLE report generator to analyze the CNMSTYLE member. You can use the report that is created to take the following actions:

- List the %INCLUDE structure.
- Analyze multiple occurrences of statements within the CNMSTYLE member. Use this to determine which value is used during NetView initialization. For statements that are listed multiple times in the report, the last statement that is listed is the one used for initialization.
- List the CNMSTYLE towers that are enabled.
- Analyze initialization statements for a particular function.

Running the report

To run the CNMSTYLE report generator, use the CNMSJCRG sample in the NETVIEW.V621USER.INSTALL data set. This INSTALL data set was created during installation by the CNMSJBUP sample job. The CNMSJCRG sample is a job that runs outside of the NetView address space and runs the REXX program CNMECRG under the TSO terminal monitor program.

The CNMSJCRG sample requires the following data sets:

STEPLIB
The NetView CNMLINK data set from the current release, NETVIEW.V6R2M1.CNMLINK.

SYSEXEC
The concatenated data set list of the NetView CNMCLST data sets from the current release.

DSIPARM
The concatenated data set list containing current release versions of the CNMSTYLE member. Ensure that the data set concatenation order is the same as that specified in the NetView start procedure CNMPROC.

CNMPNL1
The NetView CNMPNL1 data set from the current release, NETVIEW.V6R2M1.CNMPNL1.

DSIWRIT
The output partition data set to which the generated report member is written. The output of the report generator is written as a member of a partition data set. If you use the NetView default naming convention, the data set name is NETVIEW.V621USER.CNM01.DSILIST.

The CNMSTYLE report is written to member CNMCRG in the DSIWRIT data set. If member CNMCRG already exists, a backup copy of the existing CNMCRG member is created and named CNMCRGBK. If member CNMCRGBK exists, it is overwritten with the existing CNMCRG member.

You can specify keyword parameters in CNMSJCRG. Each keyword parameter and value must be specified on a separate line, just below the CNMECRG command. Do not continue the value onto a second line. All characters typed on a line are interpreted as input to CNMECRG. If a keyword parameter is specified more than once, the first value is used and all subsequent values specified are ignored. Input ends when either a blank line or a /* occurs.

You can specify the following keywords:

TASKS=YES | NO
Specifies whether to include CNMSTASK statements in the report.

YES
Includes statements from the CNMSTASK member. This is the default value.

NO
Does not include CNMSTASK statements.

&NV2I=*xx*
The default value for *xx* is NM. If a value that is not valid is specified, an error message is issued and the default value NM is used in the report. If you use alphabetic characters, the characters are converted to uppercase.

&*symbolic_name*= *value*
Provides the *value* of a system or NetView symbolic variable (&*symbolic_name*) that you are using in the CNMSTYLE member. A symbolic parameter must be passed to CNMECRG to be resolved in the report.

The CNMSTYLE Report Generator, when reading a NetView definition member, cannot resolve symbolic references that refer to a substring of a symbolic variable such as

```
%INCLUDE C&DOMAIN(2:2).STGEN
```

Usage notes:

1. Precede the *symbolic_name* with an ampersand (&).

2. The *symbolic_name* can optionally include a trailing period (.).
3. Use single quotation marks (‘ ’) if *value* has leading or trailing blanks.
4. Do not specify a value that contains a symbolic variable, such as

   ```
   &AAAAA='C&NV2I.01'
   ```

   or that contains a substring of a symbolic variable, such as

   ```
   &AAAAA='C&DOMAIN(2:2).01'
   ```

The following example shows keyword parameters for CNMECRG within CNMSJCRG:

```
CNMECRG
  TASKS=NO
  &DOMAIN=CNM01
  &NV2I=NM
  &CNMTCPN=TCPIP
  &CNMRODM=RODMNAME
  &CNMNETID=NETA
  &MYSYMBL=' A B C '
/*
```

Analyzing the Report

The CNMSTYLE report includes the following sections:

1. General information and CNMSTYLE statements that pertain to all of NetView
2. CNMSTYLE statements that pertain to specific functions of NetView
3. auxInitCmd statements and user-defined statements
4. User-defined and unrecognized statements
5. Data REXX and %INCLUDE statements

Because the TASKS parameter is set to NO, the report in this example does not include CNMSTASK statements.

The first section of the CNMSTYLE report is shown in Figure 6 on page 110. This part of the report contains general information related to the CNMSTYLE member, such as:

- The date and time the report was created
- The &NV2I symbolic variable value being used
- A nested listing of the members included by the CNMSTYLE member
- A list of the CNMSTYLE towers that are enabled when NetView initializes
- A list of CNMSTYLE statements that apply to base NetView

```
                            CNMSTYLE REPORT

DATE: 21 Jul 2009
TIME: 14:03:25

&NV21 value: NM

%INCLUDE structure of: CNMSTYLE

    CNMSTYLE
         CNMSTPWD
         CNMSTASK
         CNMSTIDS
         CNMSTTWR
         CNMSTWBM
         CNMSTUSR
              MYINCLUD
         CNMSTGEN

Enabled Towers:  NPDA  NLDM  TCPIPCOLLECT  DISCOVERY

Statements for function: NetView General

Member   Line# Indicators   Statement
-------- ----- ------------ --------------------------------------------------
CNMSTYLE   217 Y            DOMAIN = CNM01
CNMSTYLE   304 Y            NetID = NETA
CNMSTYLE   747              TOWER = *SA *AON *MSM *Graphics NPDA NLDM
                             | TCPIPCOLLECT *AMI *DVIPA *TEMA *IPMGT
                             | *NVSOA DISCOVERY
CNMSTYLE  1589              CNMI = Yes
CNMSTYLE   582              SECOPTS.OPERSEC = NETVPW
CNMSTYLE   596              SECOPTS.SURROGAT = NO
CNMSTYLE   615              SECOPTS.CMDAUTH = TABLE.CNMSCAT2
CNMSTYLE   626              SECOPTS.AUTHCHK = SOURCEID
CNMSTYLE   634              SECOPTS.OPSPAN = NETV
CNMSTYLE   653              SECOPTS.SPANAUTH = *NONE*
     .      .                  .
     .      .                  .
     .      .                  .
```

Figure 6. First section of CNMSTYLE report

The format of the CNMSTYLE statements presented in the generated report includes the following fields:

Member
Member name containing the statement

Line#
Line number within the member where the CNMSTYLE statement is located. If a statement is a continuation statement, only the line number where the statement begins is listed.

Indicators
Lists information about the statement. This information is formatted in the following way:

```
R CCCCCC
```

where **R** represents the Resolve indicator and **CCCCCC** represents the Condition indicator:

Resolve
Indicates whether the given CNMSTYLE statement was modified by the report generator. A specification of **Y** indicates that the statement was modified. For example, a symbolic variable was substituted or an autotask statement that uses the question mark (?) feature was resolved.

If the resolve field has no value listed, no modifications were made to the statement.

Condition
Indicates that a condition is required for the listed CNMSTYLE statement to be active, such as a tower that must be enabled. If only one tower is required to be enabled the condition field is set to the required tower name. The first 10 characters of the tower name are listed. If more than one tower must be enabled or if some other condition must be met, the condition field is set to four asterisks (****).

If the condition field has no value listed, no conditions are required for the statement to be active.

Statement
Lists the CNMSTYLE statement and its value. Extra spacing in the statement might be removed, along with any tower conditionals that are found at the beginning of the statement. Statements can be further modified by having values substituted into either the CNMSTYLE keyword or its value.

Values of CNMSTYLE keywords that contain passwords and other values critical to security are identified as a security risk and are listed in the report as four asterisks (****) to prevent unauthorized viewing.

The second section of the report lists CNMSTYLE statements for specific NetView functions. For example, Figure 7 on page 111 lists statements for the hardware monitor (NPDA) component.

If a CNMSTYLE statement applies to multiple NetView functions, that statement is listed for each NetView function to which it applies. For example, the TOWER statement applies to both the hardware monitor and the session monitor, and various other NetView functions.

Within a function, the most critical statements are listed first, followed by less critical statements. NetView functions are presented in the report alphabetically.

```
Statements for function: Hardware Monitor (NPDA)

Member   Line# Indicators   Statement
-------- ----- ------------ --------------------------------------------------
CNMSTYLE   747              TOWER = *SA *AON *MSM *Graphics NPDA NLDM
                              | TCPIPCOLLECT *AMI *DVIPA *TEMA *IPMGT
                              | *NVSOA DISCOVERY
CNMSTYLE  1701              TASK.BNJMNPDA.INIT = N
CNMSTYLE  1690              TASK.BNJDSERV.INIT = N

CNMSTYLE  2733              NPDA.ALCACHE = WRAPCNT
MYINCLUD    18   NPDA       NPDA.ALCACHE = 500

CNMSTYLE  2749              NPDA.ALERTFWD = SNA-MDS-LOGONLY
CNMSTYLE  2807              NPDA.ALERTLOG = RANDRANG
CNMSTYLE  2783              NPDA.ALRTINFP.RECORD = Yes
CNMSTYLE  2793              NPDA.ALT_ALERT = DOMAIN
CNMSTYLE  2864              NPDA.AUTORATE = 1
CNMSTYLE  2701              NPDA.DSRBO = 5
CNMSTYLE  2693              NPDA.DSRBU = 5
CNMSTYLE  2901              NPDA.ERR_RATE = 10 50
CNMSTYLE  2708              NPDA.MACRF = LSR
CNMSTYLE  2758              NPDA.MDSIND = Yes
CNMSTYLE  2686              NPDA.PDDNM = BNJLGPR
CNMSTYLE  2714              NPDA.PNA = No
CNMSTYLE  2873              NPDA.PRELOAD_BER = No

CNMSTYLE  2720              NPDA.REPORTS = OFF
CNMSTUSR    14              NPDA.REPORTS = ON

CNMSTYLE  2687              NPDA.SDDNM = BNJLGSE
CNMSTYLE  2728              NPDA.TECROUTE = IHSATEC
MYINCLUD    17   NPDA       NPDA.W.1 = AL 500
CNMSTYLE  1846              function.autotask.HMONdbMaint = DBAUTO2
```

Figure 7. NetView Function Information

The third section of the report lists the auxInitCmd statements as shown in Figure 8 on page 111. The auxInitCmd statements are listed in the order they are encountered in the CNMSTYLE member.

```
auxInitCmd Statements

Member   Line# Indicators   Statement
-------- ----- ------------ --------------------------------------------------
CNMSTYLE  4633              auxInitCmd.A = MSG SYSOP,Auxiliary commands beginn
                             |ing.
CNMSTYLE  4636   NLDM       auxInitCmd.SNLDM = STARTCNM NLDM
CNMSTYLE  4637   NPDA       auxInitCmd.SNPDA = STARTCNM NPDA
CNMSTYLE  4638              auxInitCmd.POLICY = EXCMD ?Policy,EZLEANTL
CNMSTYLE  4639   DISCOVERY  auxInitCmd.ZDISC = EXCMD ?Policy,CNMEERSC
MYINCLUD    16   NPDA       auxInitCmd.BB = MSG SYSOP,NPDA will be activated
```

Figure 8. auxInitCmd Statements

The fourth section of the report lists CNMSTYLE statements that are not recognized by the CNMSTYLE report generator as belonging to a specific NetView function or to the general NetView information in the first section of the report. A statement might be listed under *User-Defined/Unrecognized CNMSTYLE Statements* for the following reasons:

- A statement might be owned by another product such as System Automation for z/OS.
- A statement might require an additional CNMSTYLE statement to become active.

  For example, the AUTOTASK.?APSERV.Console statement requires the function.autotask.APSERV statement before it can become active.
- A statement was moved from NetView for z/OS to another product.

  For example, the ACTACT.MASTER.DELAY statement was part of the NetView for z/OS product but was moved to the IBM Tivoli NetView Monitoring for GDPS product. If the ACTACT.MASTER.DELAY statement was modified and placed in the CNMSTUSR member and the IBM Tivoli NetView Monitoring for GDPS product is not installed, the ACTACT.MASTER.DELAY statement is not recognized by the Report Generator until the IBM Tivoli NetView Monitoring for GDPS product is installed.
- A statement is created by a user.

  For example, you define the OPAAA01 autotask as follows:

```
%> IF TOWER('NPDA') THEN DO;
function.autotask.MyAutoOp = OPAAA01
%> END;
```

  The function.autotask.MyAutoOp statement is listed as a user-defined/unrecognized statement in Figure 9 on page 112.

```
User-Defined/Unrecognized CNMSTYLE Statements

This section identifies statements in your CNMSTYLE member that were either
created by the user, require additional CNMSTYLE statements to become active,
were moved from NetView for z/OS to another product, or are owned by another
product.

Member   Line# Indicators   Statement
-------- ----- ------------ --------------------------------------------------
CNMSTYLE   361              AUTOTASK.?Helper.Console = D761CON
CNMSTYLE  1079              AUTOTASK.?APSERV.Console = *NONE*
CNMSTYLE  1080              AUTOTASK.?APSERV.InitCmd = APSERV xyz
CNMSTYLE  1090              AUTOTASK.?SMF30.Console = *NONE*
CNMSTYLE  1091              AUTOTASK.?SMF30.InitCmd = CNMSMF3R
MYINCLUD    15   NPDA       function.autotask.MyAutoOp = OPAAA01
```

Figure 9. User-Defined/Unrecognized CNMSTYLE Statements

The fifth section of the report lists Data REXX and %INCLUDE statements, as shown in Figure 10 on page 113. During report processing, Data REXX statements are ignored. Data REXX statements are listed in the report in the order that they are encountered in the CNMSTYLE member. Only the first 63 characters of each Data REXX statement are placed in the report. CNMSTYLE statements within a %DATA portion of a Data REXX block that are affected by an IF-THEN statement are also listed to help you understand which CNMSTYLE statements are impacted by your Data REXX statements.

%INCLUDE statements are also listed in section 5 and are listed within the Data REXX statements in the order that they are encountered in the CNMSTYLE member. All %INCLUDE members that are found are included by the CNMSTYLE report generator in the report. Because some %INCLUDE members might be conditionally included, review the conditions surrounding a %INCLUDE statement to ensure that the report reflects your environment.

Member names on %INCLUDE statements that are not found in the DSIPARM concatenation result in a return code of 4 from the report generator. If you feel that a member is missing but should have been included, review your DSIPARM concatenation in CNMSJCRG for any missing data sets. However, be aware that some members might ship with a feature that you have not installed currently.

```
Data Rexx and %INCLUDE Statements

Member   Line# Statement
-------- ----- ----------------------------------------------------------------
CNMSTYLE   242 %INCLUDE CNMSTPWD

CNMSTYLE  1737 %INCLUDE CNMSTASK

CNMSTASK     1 /*%DATA REXX ------------------------------------------------

CNMSTASK    17 /*%LOGIC ----------------------------------------------------
CNMSTASK    18 IF  TYPE() = 'ENT' THEN                      /* Enterprise NetV
CNMSTASK    19  DO;
CNMSTASK    20   polAuto = cglobal('CNMSTYLE.AUTO.POLICY')
CNMSTASK    21   aonAuto = cglobal('CNMSTYLE.AUTO.AON')
CNMSTASK    22   IF aonAuto = '' THEN aonAuto = 'AUTOAON'   /* Default name
CNMSTASK    23   IF polAuto = '' THEN polAuto = 'AUTOAON'   /* Same default
CNMSTASK    24   IF  polAuto ^= aonAuto THEN

  .          .        .
  .          .        .
  .          .        .

CNMSTUSR    11 %INCLUDE  MYINCLUD

MYINCLUD     1 /*%DATA REXX ------------------------------------------------

MYINCLUD    13 %> IF TOWER('NPDA') THEN DO;

MYINCLUD    15 function.autotask.MyAutoOp = OPAAA01
MYINCLUD    16 auxInitCmd.BB = MSG SYSOP,NPDA will be activated
MYINCLUD    17 NPDA.W.1 = AL 500
MYINCLUD    18 NPDA.ALCACHE = 500

MYINCLUD    20 %> END;

CNMSTYLE  5230 %INCLUDE CNMSTGEN

CNMSTGEN     1 /*%DATA REXX ------------------------------------------------

CNMSTGEN    13 %> IF domain() = 'CNM01' THEN  /* Never true! Data Rexx runs...
CNMSTGEN    14 %>                     /* earlier than resolution of system-sym
CNMSTGEN    15 %>  'STYLEMSG = Illustration only. You will never see this.'
```

Figure 10. Data REXX and %INCLUDE Statements

Note: Only the first 63 characters of each Data REXX statement are displayed.

Return codes

The following return codes are set by CNMECRG:

0
Successful completion; a file was created in DSIWRIT

4
Minor errors encountered; a file was created in DSIWRIT

8
Major error encountered; a file was not created in DSIWRIT

For non-zero return codes, error messages can be found in the CNMSJCRG job log.

Migrating without Restarting the MVS System

The normal process for installing and starting the NetView program requires restarting the MVS system, in order to load required LPA modules and activate required subsystems. If you are migrating from NetView V5R3 or later, you can avoid restarting the MVS system by completing the same steps manually.The steps to follow vary depending upon the earlier version of the NetView program from which you are migrating.

Migrating from NetView V5R4 without Restarting the MVS System

Follow these steps if you have to complete the migration from NetView V5R4 without restarting the MVS system.

Before you begin

This procedure assumes that you are under the following conditions:

- You have completed all installation procedures that are previously documented in this information but without restarting the MVS system.
- Upon completion of these migration steps, either a V6R2M1 environment or a V5R4 environment exists, but not both.

Procedure

1. Issue the following command from the NetView V5R4 command facility:

   ```
   REVISE CMD OFF
   ```

   Tip: You need to know what parameters were used to enable the message processing facility (MPF). To learn what parameters were used, review the IEE252I messages in the syslog log. You need this information for step "5" on page 115.
2. Stop all address spaces associated with the previous release of the NetView program.
3. Dynamically add the required NetView modules to the link pack area (LPA):

   - BNJLINTB
   - BNJMTERM
   - BNJSVC76
   - (CNMCNETV,CNMNETV)
   - CNMCSRVP
   - CNMCSSEI
   - CNMCSSPI
   - DSIELSVC
   - DSIRVCEX
   - DSISPNOT
   - DSI4LCUI
   - DSI4LSIT

   Use the **SETPROG LPA ADD** command to add each module:

   ```
   SETPROG LPA,ADD,MODNAME=module,DSNAME=NETVIEW.V6R2M1.SCNMLPA1
   ```

   where *module* is the module name or names and NETVIEW.V6R2M1.SCNMLPA1 is the NetView library where the module was installed. Note that CNMCNETV and its alias, CNMNETV, must be specified together, separated by commas, and within parentheses, in the **SETPROG** command.
4. Add the required NetView modules to the list of APF-authorized libraries.

   Issue the following MVS command to dynamically add NetView libraries to the list of APF-authorized libraries without requiring a system restart:

   ```
   SETPROG APF,FORMAT=DYNAMIC
   ```

   Issue the following MVS commands to add APF authorizations for the required NetView libraries:

   ```
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.CNMLINK,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SAQNLINK,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLNKN,VOLUME=vol-ser
   ```

```
SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLNK1,VOLUME=vol-ser
SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLPA1,VOLUME=vol-ser
```

where *vol-ser* is the name of the volume where the NetView V6R2M1 libraries were allocated.

5. Issue the following MVS command to reset the Command Revision Table user exit (DSIRVCEX):

```
SET MPF=(xx,xx,...)
```

where (*xx*,*xx*,...) is the MPFLST*xx* member or concatenation of the MPFLST*xx* members in the SYS1.PARMLIB data set that is used to provide information to the message processing facility. The SET MPF command replaces all the information that was previously provided to MPF. Make sure that you include all of the MPFLST*xx* members in the list that you provide during a routine start of your MVS system.

6. If you intend to define a new NetView subsystem for either your NetView V6R2M1 installation or your NetView V5R4 installation, define this subsystem now. If you would rather not define a new subsystem name to perform this migration, continue with step 7. Dynamically add the subsystem by issuing the SETSSI ADD command as follows, where *ssiname* is a new NetView subsystem name.

   For a new NetView V5R4 subsystem:

```
SETSSI ADD,SUBNAME=ssiname
```

   For a new NetView V6R2M1 subsystem:

```
SETSSI ADD,SUBNAME=ssiname,INITRTN=DSI4LSIT
```

   Tip: The subsystem name for an instance of the NetView program consists of the first four characters of the job name that is associated with its main address space and the matching SSI procedure. The subsystem name that you use for an instance of NetView must not be the same as any other subsystem name in use; multiple NetView address spaces cannot use the same subsystem name.

   When you add a NetView subsystem, the CNM617I message is displayed when the SETSSI ADD command completes.

   Note: You may also specify initialization parameters on the V6R2M1 subsystem definition by using the **INITPARM** parameter, which has the following format that follows an additional comma after the **INITRTN** parameter:

```
INITPARM='parm1,parm2'
```

   For more information about what initialization parameters can be specified, see the "IEFSSNxx" topic in the "Updating SYS1.PARMLIB Members" section of Chapter 2 "Preparing the MVS System" in the "Installation: Getting Started" manual.

7. Make sure that the NetView libraries are included on the STEPLIB DD statements in the specified NetView start procedure:

Table 43. NetView V6R2M1 start procedures

Start procedure	Address space	Required NetView libraries
CNMPSSI (CNMSJ010)	NetView subsystem (SSI) program	NETVIEW.V6R2M1.CNMLINK
CNMPROC (CNMSJ009)	NetView program	NETVIEW.V6R2M1.SCNMMJPN[1] NETVIEW.V6R2M1.SAQNLINK NETVIEW.V6R2M1.CNMLINK
EKGXRODM	RODM program	NETVIEW.V6R2M1.CNMLINK
EKGLOADP	RODM loader program	NETVIEW.V6R2M1.CNMLINK
CNMGMFHS (CNMSJH10)	GMFHS program	NETVIEW.V6R2M1.CNMLINK

Table 43. NetView V6R2M1 start procedures (continued)		
Start procedure	**Address space**	**Required NetView libraries**
IHSEAVNT	EA/S program	NETVIEW.V6R2M1.CNMLINK
1. Japanese only		

Although you can dynamically add the NetView V6R2M1 libraries to the MVS LNKLST concatenation, doing so can affect other processes and applications that are running in your z/OS environment. You can avoid this situation by placing the appropriate NetView v6.2.1 libraries on STEPLIB DD statements in the respective start procedures. Refer to the NetView V6R2M1 sample start procedures in the NETVIEW.V6R2M1.CNMSAMP data set to review examples of STEPLIB DD statements for each of the NetView start procedures that are listed in Table 43 on page 115.

8. Start the NetView V6R2M1 subsystem procedure (CNMPSSI).
   - If the CNM541I message (indicating success) is issued, continue with step “12” on page 116.
   - If the CNM749A message (indicating a conflict) is issued or if the CNM598W message is issued (indicating downlevel DSI4LSIT), continue with step “9” on page 116.
   - If another failure message is issued, consult the help for that message.
9. Choose a new subsystem name to act as a placeholder subsystem for your dynamic NetView subsystem initialization. You can choose any four-character name that is acceptable to the MVS system as a subsystem name (and not already in use). It is not associated with any job name or procedure name.
10. Dynamically add the placeholder subsystem by issuing the SETSSI ADD command as follows, where *ssiname* is the placeholder subsystem name that you chose:

    ```
    SETSSI ADD,SUBNAME=ssiname,INITRTN=DSI4LSIT
    ```

    When this command completes, the CNM617I message is displayed.

    Note:

    Do not deactivate this placeholder subsystem unless you need to do so to return to V5R4 without restarting the MVS system. After the MVS system is restarted and your IEFSSN*xx* member is updated for NetView V6R2M1, you no longer need this placeholder subsystem.

    You may also specify initialization parameters on the subsystem definition by using the INITPARM parameter, which has the following format that follows an additional comma after the INITRTN parameter:

    ```
    INITPARM='parm1,parm2'
    ```

    For more information about what initialization parameters can be specified, see the "IEFSSNxx" topic in the "Updating SYS1.PARMLIB Members" section of Chapter 2 "Preparing the MVS System" in the "Installation: Getting Started" manual.
11. Start the NetView subsystem procedure again. After the NetView subsystem is successfully started, the CNM541I message is displayed.
12. Start the NetView subsystem procedures for any additional NetView subsystems. Make sure that the CNM541I message is displayed for each procedure before you proceed to the next. If you do not receive the CNM541I message, see step “8” on page 116 and, if necessary, complete steps “9” on page 116, “10” on page 116, and “11” on page 116.
13. Optional: If you do not intend to use the NetView program-to-program interface (PPI), the message revision table (MRT), or the command revision table (CRT), you can stop the NetView subsystem after the CNM541I message is displayed.
14. Start the main NetView procedure for each instance of the NetView program.

Returning to NetView V5R4 without Restarting the MVS System

If you have to resume operation of your previous NetView V5R4 installation without restarting the MVS system, complete these steps.

Procedure

1. Ensure that the fix for V5R4 APAR OA50485 is applied and effective.
2. Issue the **REVISE CMD OFF** command from the NetView V6R2M1 command facility.
3. Stop all address spaces that are associated with the NetView V6R2M1 program.
4. Deactivate the subsystem used for V6R2M1 by issuing the SETSSI DEACTIVATE,SUBNAME=*ssiname* command.

   The subsystem is added by step 6 or step 10 in the above section or specified as the first subsystem on which INITRTN(DSI4LSIT) is specified in an IEFSSNxx SYS1.PARMLIB member if an IPL had been performed.
5. Ensure that the appropriate V5R4 load libraries are Authorized Program Facility (APF)-authorized.
6. If an IPL had not been performed since migrating to V6R2M1, issue the SETPROG LPA,DELETE,MODNAME=*module*,FORCE=YES command for each NetView V6R2M1 module except for *DSIRVCEX* that was dynamically added to the link pack area (LPA):
   - BNJLINTB
   - BNJMTERM
   - BNJSVC76
   - (CNMCNETV,CNMNETV)
   - CNMCSRVP
   - CNMCSSEI
   - CNMCSSPI
   - DSIELSVC
   - DSISPNOT
   - DSI4LSIT
7. Restore the V5R4 version of module DSIRVCEX by dynamically adding it to the link pack area (LPA) with the following command:

   ```
   SETPROG LPA,ADD,MODNAME=DSIRVCEX,DSNAME=NETVIEW.V5R4M0.SCNMLNKN
   ```

   NETVIEW.V5R4.SCNMLNKN is the V5R4 NetView library where the DSIRVCEX module was installed.
8. Issue the **SET MPF** command to reload the command exit.

Results

You can now start the NetView V5R4 program.

Migrating from NetView V6R1 without Restarting The MVS System

Follow these steps if you want to complete the migration from NetView V6R1 without restarting the MVS system.

Before you begin

This procedure assumes that you completed all installation procedures that are previously documented in this information, but without restarting the MVS system.

You must obtain and apply PTF UA70457 to the NetView V6R1 product and complete the set of instructions in the ++HOLD data in order to continue without restarting the MVS system. This same fix is necessary to resume operation of your NetView V6R1 product (without restarting the MVS system) after you migrated to the NetView V6R2M1 product.

Procedure

1. Verify that PTF UA70457 was applied to the NetView V6R1 product.
2. Add the required CNMCSRVP module to the link pack area (LPA).

   You can issue the following command to dynamically add this module:

   ```
   SETPROG LPA,ADD,MODNAME=CNMCSRVP,DSNAME=NETVIEW.V6R2M1.SCNMLPA1
   ```

3. If the NetView V6R2M1 program uses the same subsystem name as V6R1, stop all NetView V6R1 address spaces.
4. Add the required NetView modules to the list of APF-authorized libraries.

   Issue the following MVS command to dynamically add NetView libraries to the list of APF-authorized libraries without requiring a system restart:

   ```
   SETPROG APF,FORMAT=DYNAMIC
   ```

   Issue the following MVS commands to add APF authorizations for the required NetView libraries:

   ```
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.CNMLINK,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SAQNLINK,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLNKN,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLNK1,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLPA1,VOLUME=vol-ser
   ```

   where *vol-ser* is the name of the volume where the NetView V6R2M1 libraries were allocated.
5. If you want to define a new NetView subsystem for your NetView V6R2M1 installation or your NetView V6R1 installation, define this subsystem now. To dynamically add the NetView subsystem, issue the **SETSSI ADD** command:

   ```
   SETSSI ADD,SUBNAME=ssiname,INITRTN=DSI4LSIT
   ```

   where *ssiname* is a new subsystem name.

   Note: When APARs OA55071 and OA55074 are applied, you must specify an *INITPARM* parameter with the Canzlog data space parameters that you want to use on the **SETSSI ADD,SUBNAME=ssiname,INITRTN=DSI4LSIT** command. This step must be done, because the Canzlog data space structure has changed as a result of the specified APARs. For more information, see the *Installation: Getting Started*.

   Tip: The subsystem name for an instance of the NetView program consists of the first 4 characters of the job name that is associated with its main address space and the matching SSI procedure. The subsystem name that you use for a NetView instance must not be the same as any other subsystem name in use; multiple NetView address spaces cannot use the same subsystem name.

   The CNM617I message is displayed when the **SETSSI ADD** command completes.
6. Make sure that the NetView V6R2M1 libraries are included on the STEPLIB DD statements in the specified NetView V6R2M1 start procedure:

Table 44. NetView start procedures

Start procedure	Address space	Required NetView libraries
CNMPSSI (CNMSJ010)	NetView subsystem (SSI) program	NETVIEW.V6R2M1.CNMLINK
CNMPROC (CNMSJ009)	NetView program	NETVIEW.V6R2M1.SCNMMJPN[1] NETVIEW.V6R2M1.SAQNLINK NETVIEW.V6R2M1.CNMLINK
EKGXRODM	RODM program	NETVIEW.V6R2M1.CNMLINK
EKGLOADP	RODM loader program	NETVIEW.V6R2M1.CNMLINK

Table 44. NetView start procedures (continued)		
Start procedure	**Address space**	**Required NetView libraries**
CNMGMFHS (CNMSJH10)	GMFHS program	NETVIEW.V6R2M1.CNMLINK
IHSEAVNT	EA/S program	NETVIEW.V6R2M1.CNMLINK
1. Japanese only		

While it is possible to dynamically add the NetView V6R2M1 libraries to the MVS LNKLST concatenation, doing so can affect other processes and applications that are running in your z/OS environment. You can avoid this situation by placing the appropriate NetView V6R2M1 libraries on STEPLIB DD statements in the respective start procedures. Refer to the NetView V6R2M1 sample start procedures in the NETVIEW.V6R2M1.CNMSAMP data set to review examples of STEPLIB DD statements for each of the NetView start procedures that are listed in Table 44 on page 118.

7. Start the NetView subsystem procedure (CNMPSSI) for your NetView V6R2M1 subsystem.

   The CNM541I message is displayed after the NetView subsystem starts successfully.
8. Start the NetView procedure (CNMPROC) for the NetView V6R2M1 program.
9. Start any additional NetView V6R2M1 address spaces when they are migrated to the NetView V6R2M1 level.

Returning to NetView V6R1 without Restarting the MVS System

To resume operation of your previous NetView V6R1 installation without restarting the MVS system, complete these steps.

Before you begin

To resume operation of NetView V6R1, you must have PTF UA70457 applied to your NetView V6R1 product. Verify that this PTF was applied on your system before proceeding.

Procedure

1. If your NetView v6.2.1 program uses the same subsystem name as your V6R1 program, stop all NetView v6.2.1 address spaces.
2. For the NetView program to use the V6R1 version of the CNMCSRVP module, issue the following command:

   ```
   SETPROG LPA,DELETE,MODNAME=CNMCSRVP,FORCE=YES
   ```
3. Start all NetView V6R1 address spaces.

Migrating from NetView V6R2 without Restarting the MVS System

Follow these steps if you want to complete the migration from NetView V6R2 without restarting the MVS system.

Before you begin

This procedure assumes that you completed all installation procedures that are previously documented in this information, but without restarting the MVS system.

Procedure

1. If the NetView V6R2M1 program uses the same subsystem name as V6R2, stop all NetView V6R2 address spaces.
2. Dynamically add the NetView V6R2M1 modules to the link pack area (LPA):
   - BNJLINTB
   - BNJMTERM
   - BNJSVC76

- CNMCNETV
- CNMCSRVP
- CNMCSSEI
- CNMCSSPI
- CNMNETV
- DSIELSVC
- DSIRVCEX
- DSISPNOT
- DSI4LCUI
- DSI4LSIT

Use the **SETPROG LPA ADD** command to add each module:

```
SETPROG LPA,ADD,MODNAME=module,DSNAME=NETVIEW.V6R2M1.SCNMLPA1
```

where *module* is the module name and NETVIEW.V6R2M1.SCNMLPA1 is the NetView library where the module was installed.

Note: Not all of the modules in NETVIEW.V6R2M1.SCNMLPA1 were updated for NetView V6R2M1. Consider loading the most current version of each module in the LPA. You can load all of the modules in NETVIEW.V6R2M1.SCNMLPA1 with one command by issuing the following command:

```
SETPROG LPA,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLPA1,MASK=*
```

3. Add the required NetView modules to the list of APF-authorized libraries.

   Issue the following MVS command to dynamically add NetView libraries to the list of APF-authorized libraries without requiring a system restart:

   ```
   SETPROG APF,FORMAT=DYNAMIC
   ```

   Issue the following MVS commands to add APF authorizations for the required NetView libraries:

   ```
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.CNMLINK,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SAQNLINK,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLNKN,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLNK1,VOLUME=vol-ser
   SETPROG APF,ADD,DSNAME=NETVIEW.V6R2M1.SCNMLPA1,VOLUME=vol-ser
   ```

   where *vol-ser* is the name of the volume where the NetView V6R2M1 libraries were allocated.
4. If you want to define a new NetView subsystem for your NetView V6R2M1 installation or your NetView V6R2 installation, define this subsystem now. To dynamically add the NetView subsystem, issue the **SETSSI ADD** command:

   ```
   SETSSI ADD,SUBNAME=ssiname,INITRTN=DSI4LSIT
   ```

   where *ssiname* is a new subsystem name.

   Note: When APARs OA55071 and OA55074 are applied, you must specify an *INITPARM* parameter with the Canzlog data space parameters that you want to use on the **SETSSI ADD,SUBNAME=ssiname,INITRTN=DSI4LSIT** command. This step must be done, because the Canzlog data space structure has changed as a result of the specified APARs. For more information, see the *Installation: Getting Started*.

   Tip: The subsystem name for an instance of the NetView program consists of the first 4 characters of the job name that is associated with its main address space and the matching SSI procedure. The subsystem name that you use for a NetView instance must not be the same as any other subsystem name in use; multiple NetView address spaces cannot use the same subsystem name.

   The CNM617I message is displayed when the **SETSSI ADD** command completes.

5. Make sure that the NetView V6R2M1 libraries are included on the STEPLIB DD statements in the specified NetView V6R2M1 start procedure:

Table 45. NetView start procedures

Start procedure	Address space	Required NetView libraries
CNMPSSI (CNMSJ010)	NetView subsystem (SSI) program	`NETVIEW.V6R2M1.CNMLINK`

CNMPROC (CNMSJ009)	NetView program	`NETVIEW.V6R2M1.SCNMMJPN`[1]
		`NETVIEW.V6R2M1.SAQNLINK`
		`NETVIEW.V6R2M1.CNMLINK`

EKGXRODM	RODM program	`NETVIEW.V6R2M1.CNMLINK`
EKGLOADP	RODM loader program	`NETVIEW.V6R2M1.CNMLINK`
CNMGMFHS (CNMSJH10)	GMFHS program	`NETVIEW.V6R2M1.CNMLINK`
IHSEAVNT	EA/S program	`NETVIEW.V6R2M1.CNMLINK`

1. Japanese only

   While it is possible to dynamically add the NetView V6R2M1 libraries to the MVS LNKLST concatenation, doing so can affect other processes and applications that are running in your z/OS environment. You can avoid this situation by placing the appropriate NetView V6R2M1 libraries on STEPLIB DD statements in the respective start procedures. Refer to the NetView V6R2M1 sample start procedures in the NETVIEW.V6R2M1.CNMSAMP data set to review examples of STEPLIB DD statements for each of the NetView start procedures that are listed in Table 45 on page 121.
6. Start the NetView subsystem procedure (CNMPSSI) for your NetView V6R2M1 subsystem.

   The CNM541I message is displayed after the NetView subsystem starts successfully.
7. Start the NetView procedure (CNMPROC) for the NetView V6R2M1 program.
8. Start any additional NetView V6R2M1 address spaces when they are migrated to the NetView V6R2M1 level.

Returning to NetView V6R2 without Restarting the MVS System

To resume operation of your previous NetView V6R2 installation without restarting the MVS system, complete these steps.

Procedure

1. If your NetView V6R2M1 program uses the same subsystem name as your V6R2 program, stop all NetView V6R2M1 address spaces.
2. Start all NetView V6R2 address spaces.

Chapter 8. Verifying the Migration

About this task

To test the NetView program that you installed, run the steps in the following order:

1. Ensure that VTAM and TCP/IP have been started.
2. Start the NetView subsystem address space using job CNMPSSI.
3. Start the NetView program using job CNMPROC.

   If you are running an additional copy of the NetView program on this LPAR and are using the hardware monitor, enter the following command at the system console:

   ```
   S CNMPROC,PROG=DSIMNT
   ```

4. Log on to the command facility.
5. From the NetView main menu, enter **HELP** to display the NetView help facility main menu.
6. Press **PF3** twice to go to the command facility, then issue the **help** command to display the command facility help menu.
7. Enter **4** to display a list of command and command lists for which help exists.
8. Press **PF3** twice to return to the command facility, then enter **WHO** to display session information.
9. Press the **Enter** key until all data has been displayed, then enter **BROWSE CANZLOG** to browse the Canzlog log. This command displays all messages and DOMs.
10. Press **PF3** to return to the command facility, then issue the **NPDA** command to display the hardware monitor main menu.
11. Issue the **ALERTSH** command to display the history of alerts recorded on the hardware monitor data base.
12. Press **PF3** twice to return to the command facility, then issue the **NLDM** command to display the session monitor main menu.
13. Issue the **LIST HISTORY LU** command to display a historical listing of logical units.
14. Press **PF3** twice to return to the command facility, then issue the **LOGOFF** command to end your operator session.

This completes installation and migration of the NetView program with minimum function. To run the NetView program in production, consider the following actions:

- Ensure that the V6R2M1 modules are active in your production environment. This might require an IPL with CLPA before running the NetView program in production.
- Allocate the VSAM for the production LPAR.
- If you have been running multiple NetView programs in the same LPAR, then make sure that one NetView program is set up as the primary program operator (PPO) and the second NetView is set up as the secondary program operator (SPO). For more details, see the information about running multiple NetView programs in the same LPAR in *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.
- Complete any tuning and customization tasks your system requires. See Table 46 on page 124 for more information.
- If you are using the NetView program for system automation, review your system automation planning and verify that any new operating procedures are ready for implementation.

For each administration task that you have prepared, test to ensure that it has been done correctly. When you are satisfied, the NetView program is ready for full production.

Note: If you resume production under a previous release of the NetView program, cancel the NetView subsystem job and close the V6R2M1 application.

Table 46. Additional Installation, Configuration, Customization, and Tuning Information

If you want information about...	Refer to...
Updating NetView for your environment	*IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*
Updating NetView for graphics	*IBM Tivoli NetView for z/OS Installation: Configuring Graphical Components*
Writing installation exits	*IBM Tivoli NetView for z/OS Programming: Assembler* or *IBM Tivoli NetView for z/OS Programming: PL/I and C*
Writing command processors	*IBM Tivoli NetView for z/OS Programming: Assembler* or *IBM Tivoli NetView for z/OS Programming: PL/I and C*
Tivoli NetView for z/OS Enterprise Management Agent	*IBM Tivoli NetView for z/OS Installation: Configuring the NetView Enterprise Management Agent*
NetView Monitoring for GDPS	*IBM Tivoli NetView Monitoring for GDPS Configuring and Using the GDPS Active/Active Continuous Availability Solution*

Chapter 9. Migrating Graphics

"Migrating from NGMF to the NetView Management Console" on page 125 describes the steps to follow to migrate from NGMF to the NetView management console. The last version of NetView that included NGMF support was NetView V1R4. NetView V6R2M1 does not allow a NETCONV connection to an NGMF server. Current NGMF users must be upgraded to the NetView management console.

"Migrating the NetView Management Console Topology Server and Console" on page 125 describes how to migrate to the NetView V6R2M1 NetView management console from previous levels of the NetView management console.

Migrating from NGMF to the NetView Management Console

Migration consists of replacing your NGMF graphic data servers and graphic monitor workstations with NetView management console workstations (both console and server). GMFHS requires no modification when a user migrates from NGMF to the NetView management console.

Other migration considerations include:

- Context menu command definitions.

  These include user-defined commands in the Command Profile Editor, and user-defined Command Tree definitions from NGMF to the NetView management console. The NetView program provides a utility to migrate these Command Tree definitions. Refer to the *IBM Tivoli NetView for z/OS User's Guide: NetView Management Console* for additional information on this utility. This section also has some tips on migrating the user-defined commands in the Command Profile Editor.
- View customization.

  Any view customization is not migrated. It must be redone.
- NGMF server-based command exits.

  These command exits must be recoded, recompiled, and reinstalled into the NetView management console server.
- NGMF client-based command exits.

  These command exits must be rewritten in Java.

Migrating the NetView Management Console Topology Server and Console

Complete the migration of the NetView V6R2M1 host program before migrating the NetView management console topology server and console. New resources for V6R2M1 be displayed with a red X in place of the icon.

In NetView V6R2M1, some of the flows between the NetView management console topology console and the NetView management console topology server were changed, resulting in incompatibility with prior levels. A console at the V6R2M1 topology console communicates only with a server at the V6R2M1 level, and a server at the v6.2.1 level communicates only with consoles at the V6R2M1 level. Also, the Java environment for the NetView management console has been upgraded. Therefore, for each server, you must install the V6R2M1 level of the NetView management console topology server at the same time you install the V6R2M1 level of the NetView management console topology console on all consoles that communicate with that server.

As of V5R4, a V5R3 or earlier topology console can communicate with a NetView host using an IP connection only when the IPv6ENV statement at the host is set to NONE or MIXED. The topology console can still communicate with the NetView host using an LU6.2 connection. For information about the

IPv6ENV statement, which is a CNMSTYLE initialization statement, see the *IBM Tivoli NetView for z/OS Administration Reference*.

As of V5R4, the NetView management console no longer launches the SNMP functions that were provided by the Web application because they were removed from the Web application; see NetView Web Application. SNMP commands can be issued from the command line.

If you want information about...	Refer to...
Migrating the NetView management console topology console	egvread1.me
Migrating the NetView management console topology server	egvread2.me

Appendix A. Changes from Tivoli NetView for z/OS V5R3 to Tivoli NetView for z/OS V5R4

This appendix includes a summary of changes for the NetView V5R4 release. It also lists new, changed, and deleted:

- “Command Lists” on page 132
- “Messages” on page 133
- “Samples” on page 140
- “Command Changes” on page 141

Note: The lists in this section are listed alphabetically from left to right.

This appendix also lists the changes for the following components:

- Tivoli NetView for z/OS Enterprise Management Agent; see “Enterprise Management Agent Changes” on page 143
- Reports using Tivoli Common Reporting; see “Reports Using Tivoli Common Reporting Changes” on page 153

Summary of Changes for NetView V5R4

Changes for NetView V5R4 are included in the following sections:

- “Automation” on page 127
- “IP Management” on page 128
- “Sysplex and System Management” on page 129
- “Enterprise Integration” on page 130
- “Additional Enhancements” on page 130
- “Removed Functions” on page 131
- “Library Changes” on page 131

Automation

Table 47. Automation Enhancements

Function	Description
Event/Automation Service	Added the confirmed alert adapter service and the confirmed message adapter service that confirm the delivery of EIF events to the target receiver.
NetView MVS Command Revision	You can use the NetView Command Revision function to examine, modify, or delete (cancel) MVS commands. You can make complex changes, requiring a transfer to the NetView address space, that include getting a response to a WTOR request, obtaining responses to other MVS commands, and reading files.

Table 47. Automation Enhancements (continued)	
Function	**Description**
SMF type 30 record automation	The MVS IEFACTRT SMF installation exit receives control from the system when a job or job step ends, either normally or abnormally. The NetView program provides a sample IEFACTRT exit (CNMSMF3E) that passes data across the Program-to-Program Interface (PPI) to a receiver, which issues a message containing the data that can be processed using NetView automation facilities. This enables quicker and more consistent responses for jobs that end abnormally.

IP Management

Table 48. IP Management Enhancements	
Function	**Description**
Tivoli NetView for z/OS Enterprise Management Agent workspaces for DVIPA and discovery manager	New and changed DVIPA workspaces are provided to assist users with diagnosing DVIPA and distributed DVIPA problems. New and changed workspaces that display data collected by discovery manager are provided to assist users with diagnosing problems with TCP/IP stacks, IP interfaces, Telnet servers and ports, NetView applications, OSA and HiperSockets adapters.
Discovery manager	The discovery manager collects sysplex, z/OS image, TCP/IP stack, IP interface, OSA, HiperSockets, NetView, and Telnet Server data for display in the NetView management console and the NetView for z/OS Enterprise Management Agent. It also provides real-time 3270 TCP/IP stack, IP interface, Telnet Server, OSA, HiperSockets, and NetView application commands.
Distributed DVIPA statistics	Distributed DVIPA statistics are collected to help you evaluate how workload is being distributed to distributed DVIPA targets. Statistics are collected each time distributed DVIPA data collection is run and are logged into data sets for problem determination or historical trends. You can start logging the statistics at NetView initialization or by dynamically issuing the DVIPALOG command. The CNMSDVST sample command can be used to browse the data in the statistical data sets.
Event-based updates for DVIPA	In addition to sampling, the NetView program can use events to update DVIPA information. Events provide updates when changes occur. These events include z/OS Communications Server DVIPA SNMP traps, z/OS Communications Server VIPADYNAMIC TCP/IP profile updates, and some z/OS Communications Server sysplex monitoring messages. Events for VIPADYNAMIC TCPIP profile updates require z/OS V1R11 Communications Server or later.
IP packet trace and view	The packet trace interface no longer requires the AON component. The trace function provides management of IP packet traces. The view function provides capturing and viewing of IP packets.
OSA packet trace and view	The packet trace interface was updated to provide menu-driven OSA packet trace and view functions. The trace function provides management of OSA packet traces. The view function provides capturing and viewing of OSA packets.

Table 48. IP Management Enhancements (continued)	
Function	**Description**
MultiSystem Manager IBM Tivoli Network Manager agent	The MultiSystem Manager agent for IBM Tivoli Network Manager extracts IP topology information from the IBM Tivoli Network Manager topology database about the network resources and relationships that are discovered by Tivoli Network Manager and loads the information into Resource Object Data Manager (RODM). This allows consolidated management of mainframe and enterprise IP resources from a central site.
NetView management console supports communication on IPv6	The NetView management console supports communication on IPv6. For consistency with other IP functions provided by the NetView product, the term *IP sessions* was changed to *IP connections* in NetView management console windows, messages, and helps.
AON functions	The following functions were moved from the AON component to the base NetView program: • ACTMON • Intrusion Detection • IP component trace • IP trace • IPMAN • IPSTAT • NVSNMP

Sysplex and System Management

Table 49. Sysplex and System Management Enhancements	
Function	**Description**
Sysplex and system management	The increasing complexity of managing a sysplex environment requires management from a single point of control. The NetView program provides high availability sysplex management to ease complex system interactions and to maximize operational effectiveness. A master NetView program is automatically available for you to use in managing and displaying information about your sysplex. Automatic failover to another NetView program that can monitor the sysplex in the event of an outage is also provided. Monitoring of sysplex and system resources, including sysplexes, coupling facilities, z/OS images, TCP/IP stacks, IP interfaces, DVIPAs, Telnet servers and ports, central processor complexes, logical partitions, OSA and HiperSockets adapters, is available with this powerful management capability. A master NetView program can provide management for systems outside of the sysplex as well as for another sysplex. This NetView program is known as an enterprise NetView program. Additional configuration is needed for the enterprise NetView program to manage systems that are outside of the sysplex. DVIPA information is restricted to sysplex management.

Table 49. Sysplex and System Management Enhancements (continued)	
Function	**Description**
XCF services	XCF services are used to automatically provide awareness of other NetView programs within the sysplex. This awareness allows the NetView program to failover to another NetView program in the event of an outage. By using XCF services, a master NetView program is implemented that collects and processes data from other NetView programs within the sysplex to provide a single point of control.

Enterprise Integration

Table 50. Enterprise Integration	
Function	**Description**
Tivoli NetView for z/OS Enterprise Management Agent	With the NetView V5R4 product, the NetView for z/OS Enterprise Management Agent (NetView agent) became a separate function modification identifier (FMID), and was removed from the base NetView program installation. The new FMID uses IBM Tivoli Monitoring V6.2.1 Interim Fix 3 or later as its base. When running the installation using SMP/E, the NetView agent is installed into the IBM Tivoli Monitoring target libraries.
MultiSystem Manager IBM Tivoli Network Manager feature	The IBM Tivoli Network Manager feature transfers information about resources that are identified and managed locally by the IBM Tivoli Network Manager product. After the information is stored in RODM, the NetView operator can view and manage these network resources from the NetView management console.
Tivoli Common Reporting	Both real-time and historical data are available within the NetView agent workspaces. After historical data collection is configured, enabled, and data is collected and sent to the Tivoli Data Warehouse, you can create reports using the Tivoli Common Reporting tool. The NetView program provides historical reports that you can use with this tool.

Additional Enhancements

Table 51. Additional Enhancements	
Function	**Description**
CLOSE command and message automation	You can use the endcmd.close.leeway statement in the CNMSTYLE member to specify how long commands can run after a CLOSE IMMED, CLOSE STOP, or an MVS STOP (P) command is entered for the NetView program. This allows for the completion of complex cleanup activities in user-written code. During the leeway period, message automation remains active, but no new commands can be queued.
NetView Web Services Gateway	NetView Web Services Gateway provides an open interface into the NetView program to issue commands and receive responses. SOAP is used for communications and HTTP or HTTPS is the transport mechanism.

Table 51. Additional Enhancements (continued)	
Function	**Description**
Global KEEP	The global KEEP function enhances and extends the capabilities of the NetView PIPE KEEP function, which is used to create, delete, modify, and access repositories (keeps) of NetView messages. The name space is expanded to allow 255-byte identifiers for the keeps. Also, specially designated keeps are accessible from any regular task.
Security - password phrase support	Password phrases can be substituted for passwords. The password phrase can include phrases up to 100 characters in length, allowing for stronger sign-on protection.

Removed Functions

Table 52. Removed Functions	
Function	**Description**
Tivoli NetView for z/OS Enterprise Management Agent workspaces	The following three workspaces were deprecated: • DVIPA Distributor Targets • DVIPA Workload by Port • Filtered DVIPA Distributor Targets
Tivoli NetView for z/OS Enterprise Management Agent Reports using Tivoli Common Reporting	The DVIPA Workload report was deprecated.
NetView for z/OS Tivoli Enterprise Portal Agent	The following versions of the NetView for z/OS Tivoli Enterprise Portal Agent were removed: • NetView for z/OS Tivoli Enterprise Portal Agent Version 5.2.0 • NetView for z/OS Tivoli Enterprise Portal V6.2.1 Agent Version 5.2.5 • NetView for z/OS Tivoli Enterprise Portal Agent Version 5.3
SNMP functions in the Web application	SNMP functions were removed from the NetView Web application.
SNMP functions in the NetView management console	SNMP functions that were removed from the Web application can no longer be launched from the NetView management console.
Multisystem Manager LAN Network Manager support	Support for this discontinued product was removed.
LPDA	Support for this discontinued hardware was removed.

Library Changes

Table 53. Library Changes	
Publication	**Description**
MultiSystem Manager User's Guide	This manual was removed from the library, and the information in this manual was moved to other manuals.
Automated Operations Network Customization Guide	This manual was combined with the *IBM Tivoli NetView for z/OS User's Guide: Automated Operations Network*.

Table 53. Library Changes (continued)	
Publication	**Description**
IP Management	This new manual about using the NetView for z/OS program for IP management was added to the library.
OMEGAMON XE shared publications	OMEGAMON XE shared publications are available from the NetView information center. These books are useful during installation of the Tivoli NetView for z/OS Enterprise Management Agent.

Command Lists

This section lists new and deleted command lists for migration considerations.

- "New Command Lists" on page 132
- "Deleted Command Lists" on page 132

Do not issue these command lists from a NetView command line. Most of the NetView command lists that are included with the NetView program are used internally by the NetView program and might have unpredictable results when issued from a NetView command line.

New Command Lists

CNME8206	CNME8207	CNME8208	CNME8214
CNME8215	CNME8216	CNME8231	CNME8232
CNME8233	CNME8235	CNME8236	CNME8237
CNME8238	CNME8250	CNME8251	CNME8252
CNME8253	CNME8260	CNME8261	CNME8265
CNMEDCTN	CNMEDRCL	CNMEDVSV	CNMEEPTN
CNMEESYD	CNMEQRDM	CNMERVNA	CNMESOKS
CNMESPTO	CNMESPUR	CNMEVCPY	CNMEXCON
CNMEXPRC	FKXE221B	FKXE2A23	FKXE2A24
FKXE2A30	FKXE2A33	FKXE2A34	FKXEACT4
FKXEACTL	FKXEAIDF	FKXECOLT	FKXECSF
FKXEDVP7	FKXEDVP9	FKXEDVPC	FKXEDVPD
FKXEDVPS	FKXEIPMI	FKXETMON	FKXETRO1
FKXETRO2	FKXETRS1	FKXETRS2	FLCAALRT
FLCAIPIP	FLCAPAUT	FLCAPNET	FLCAPNMC
FLCAPTRP	FLCAPVER		

Deleted Command Lists

CNME7200	CNME7205	CNME7210	CNME7211
CNME7212	CNME7213	CNME7221	CNME7225
CNME8201	CNMETAPK	FLCAILNM	FLCALADP
FLCALALH	FLCALAUT	FLCALBRG	FLCALCAU
FLCALSEG	FLCALVER		

Messages

This section lists new, changed, and deleted messages for migration considerations.

- "New Messages" on page 133
- "Changed Messages" on page 135
- "Deleted Messages" on page 140

New Messages

BNH067I
scope MASTER IN GROUP *group_name* SET TO *new_master*. PREVIOUS MASTER=*previous_master*, REASON=*reason_code*

BNH325I
Table loaded by *opid* at *date time*

BNH332I
For *ssiName* there are *nn* revision variables.

BNH495I
NUMBER OF NETVIEW APPLICATIONS: *numnvapp*

BNH496I
NUMBER OF TELNET SERVERS: *numsvrs*

BNH497I
NUMBER OF TELNET SERVER PORTS: *numports*

BNH498I
NUMBER OF INTERFACES: *numintf*

BNH558E
UNABLE TO CONTACT *name* USING *aliases*

BNH559E
COMMAND *cmd* FAILED. REASON=*reason_code*.

BNH560I
KEEP Status for *taskname*

BNH587I
scope MASTER *master_name* ACTIVE IN GROUP *group_name*. TAKEOVER NOT ALLOWED.

BNH588I
WAITING FOR *scope* MASTER IN GROUP *group_name* TO BECOME ACTIVE.

BNH589I
GROUP *group_name* MEMBER *member_name* STATUS CHANGE. NEW STATUS=*status* PREVIOUS STATUS=*status*

BNH590I
XCF MESSAGE RECEIVED FROM *member_name* IN GROUP *group_name message*

BNH591I
name CONTACTED USING *alias*

BNH592I
MEMBER *member_name* HAS JOINED GROUP *group_name*.

BNH593I
MEMBER *member_name* HAS LEFT GROUP *group_name*.

BNH594I
PLEXNAME GROUP MEMBER SYSTEM STATUS ROLE RANK DUR FLGS VER TIMESTMP TOKEN

BNH596E
SRB EXIT *exit* ABENDED WITH CODE *abend_code*

BNH597I
NUMBER OF OSA PORTS: *numosa*

BNH598I
NUMBER OF HIPERSOCKETS INTERFACES: *numhiper*

BNH754I
GROUP *group_name* MEMBER *member_name* HAS UPDATED STATE FIELD. PREVIOUS VALUE= *previous_value*. NEW VALUE=*new_value*

BNH776I
P/M stack ident subtype sdata

BNH813I
NUMBER OF DISTRIBUTED DVIPA TARGETS: *numtargs*

BNH814I
NUMBER OF APPLICATION SERVERS: *numserv*

BNH815I
NUMBER OF DISTRIBUTED DVIPA CONNECTION ROUTES: *numroutes*

BNH824I
NUMBER OF VIPA ROUTES: *numvipa*

BNH861I
DISTRIBUTED DVIPA STATISTICAL LOGGING INFORMATION

BNH862I
object FOUND IN *location*

BNH863I
DISPLAY OF NETVIEW WEB SERVICES INFORMATION

BNH864I
WEB SERVICES SERVER *soap_server* NOT FOUND

BNH865I
SERVER FAULT

BNH866I
CLIENT FAULT

BNH867I
NUMBER OF DISTRIBUTED DVIPA STATISTICAL RECORDS: *numrecords*

BNH868I
command RECEIVED AN ERROR FROM THE NETWORK MANAGEMENT INTERFACE: *return_code reason_code stack_name*

BNH874I
SMF RECORD RECEIVED: *sdata*

BNH893I
NETVIEW WEB SERVICES *srvr_name* STARTING ON VOST *vost_name*

BNH894I
NETVIEW WEB SERVICES *srvr_name function status*

BNH895I
NETVIEW WEB SERVICES *srvr_name* READY FOR WORK, LISTENING ON PORT: *port_number*

BNH896E
NETVIEW WEB SERVICES SERVER *'srvr_name'* ERROR SETTING VARIABLE *variable_name* RC=*rc* ERROR: *error_string*

BNH897I
NETVIEW WEB SERVICES SERVER *srvr_name* ENDED

BNH898E
WEB SERVICES SERVER *'srvr_name'* INITIALIZATION FAILED DUE TO *reason_text* RC=*rc*

BNH899I
SERVER NAME STATUS

CNM017E
Command *cmd* completed without action '*missingAction*'

CNM018I
'*function*' is in exclusive use by '*owner*'

CNM019I
'function'" has changed *'type'* data:

DWO295I
Command changed by *procedure_name*

DWO755W
The keyword *kywd* is deprecated.

FKX530I
NO COMMANDS FOUND FOR THIS RESOURCE TYPE

FKX918I
NO PACKETS MEET THE REQUESTED CRITERIA

FKX919I
UNABLE TO ACCESS PACKETS FROM REMOTE DOMAIN - *domain_name* EZLERGWY RC = *return_code*

IHS0024E
service: *request* failed, errno *number*

IHS0025I
service: Negative response limit for an event exceeded. The event will be discarded

IHS0026I
service: Connection with server at IP address *ipaddress* closed

IHS0029I
service: The current ServerLocation is location *location*, address *address*, port *port*.

IHS0121I
service: Reset of backup server connection was successful.

Changed Messages

The messages listed below have changed in one or more of the following ways:

- The message text changed.
- The value of a message variable insert changed.
- The information provided in a multiline write-to-operator (MLWTO) message changed.

For specific details of how a message is being presented by the NetView program, refer to the online message help.

BNH567I
NetView MVS command exit termination requested for *module_name*

BNH667I
desthost mode port ipaddress

BNH684I
domain taskname mode ipaddress hostname

BNH772I
NUMBER OF CONNECTIONS: *numcon*, MISSED BUFFERS: *missbuf*

BNH804I
'*intfc_name*' '*intfc_qual*' INTERFACE INITIALIZATION IS *action*

BNH805I
'*intfc_name*' '*intfc_qual*' INTERFACE HAS TERMINATED DUE TO '*reason*' *rc*

BNH812I
command ISSUED FOR *task_name* COMPLETED WITH STATUS *code*

BNH830E
ONE OR MORE SPECIFIED OUTPUT ORDERS ARE NOT SUPPORTED IN THIS ENVIRONMENT

BNH834I
insert1 insert2 insert3 insert4 insert5

BNH845I
NUMBER OF STACKS: *numstack*

BNH846I
NUMBER OF DVIPA DEFINITIONS: *numdvipa*

BNH847I
NUMBER OF DVIPA SYSPLEX DISTRIBUTORS: *numdist*

BNH849I
NUMBER OF DVIPA CONNECTIONS: *numconns*

CNM012I
type Revision table *table_name*, loaded by *task_name*, has examined *count* objects since being loaded, *date time*

CNM558I
The NetView subsystem *bufqtype* router is not active

CNM741E
INTERNAL FAILURE ENCOUNTERED IN PROCESSING *cmdname* COMMAND

CNM1221I
Click OK to replace all values in the User Preferences task with the values that are supplied with the NetView program or Cancel to ignore the restore defaults request.

DWO854I
object is active.

EKGV8053E
A blank User password is not valid with the specified User ID

EKGV9015E
A blank user password is not valid with the specified user ID

IHS0001E
errorcode parm1 parm2 parm3

IHS0010E
adapter: Line *line* could not be retrieved from FMT file *file*.

IHS0011A
adapter: FMT file *file* could not be opened.

IHS0012A
adapter: Incomplete comment in FMT file *file*.

IHS0013A
adapter: Incomplete string in FMT file *file*, line *line*.

IHS0014A
adapter: Incorrect map state token in FMT file *file*.

IHS0015A
==> line number *line*, character position *position*.

IHS0016A
adapter: FOLLOWS event class not defined in FMT file *file*.

IHS0017A
adapter: Incorrect FORMAT line token in FMT file *file*.

IHS0018A
adapter: Incorrect format begin state token in FMT file *file*.

IHS0020A
adapter: Slot map variable $*variable* out of range. It must be between $1 and $*maxvar*.

IHS0040E
TCP/IP may not be active.

IHS0050E
For Tivoli Customer Support use only: servicedata

IHS0055E
Unable to open member for initialization.

IHS0076I
TASK=*task* LEVEL=*level* IP=*iptrace*

IHS0081E
Event Service encountered an internal error in task *taskname*. Unexpected results may occur as processing continues.

IHS0082E
adapter: Encountered a null Name in a Name/Value pair. Name/Value pair is ignored.

IHS0083E
adapter: Encountered a Name in a Name/Value pair that contains only spaces. The Name/Value pair is ignored.

IHS0084E
adapter: Encountered a Name in a Name/Value pair that contains leading spaces. The Name/Value pair is ignored.

IHS0091E
adapter: The event length of *eventlength* exceeds the max length of *maxeventlength*. The event cannot be sent to the event server.

IHS0092E
adapter: EIF function *eif_function* failed. The event cannot be sent to the event server.

IHS0094E
service: Initialization failed. The configuration file is *configfile*.

IHS0096E
adapter: Initialization failed. *filetype* file *file* contains incorrect statements.

IHS0097E
adapter: Encountered a Name in a Name/Value pair that has a length that exceeds *maxlength*. It is truncated.

IHS0098I
adapter: Encountered a Value in a Name/Value pair that has a length that exceeds *maxvaluelength*. It is truncated.

IHS0099E
adapter: Encountered a Value in a Name/Value pair that has a length that exceeds *maxvaluelength*. It is truncated.

IHS0100I
servicedata

IHS0101E
Incorrect line numbering on line *line*. *correctnumber* must be used instead of *incorrectnumber*.

IHS0102E
Incorrect syntax detected on line *line_number*. The current token is *token*.

IHS0103E
Required keyword *keyword* is not present.

IHS0104E
adapter: Syntax error detected in CDS file *file* involving class *class*.

IHS0105E
Type mismatch: ATTR variable *'name'* has type *'vartype'*; keyword *keyword* has type *'keywordtype'*.

IHS0106E
Type mismatch: ATTR variable *'name'* has type *'vartype'*, but *'operator'* operator for keyword *keyword* requires type *'requiredtype'*.

IHS0111A
adapter: Incorrect %INCLUDE line in FMT file *file*.

IHS0112A
adapter: Too many %INCLUDE statements in file *file1*, including *file2*.

IHS0113A
adapter: Incomplete format specification in FMT file *file*.

IHS0114E
Unsuccessful call to *function*, errno=*errno*, *description*

IHS0115E
Unable to access the C runtime library. OpenEdition MVS may not be started.

IHS0116A
adapter: Generic class does not follow from bind class; input message is discarded.

IHS0117A
==>Generic class: *baseclass*, Bind class : *bindclass*.

IHS0118I
adapter task has terminated.

IHS0121I
service: Reset of backup server connection was successful.

IHS0122I
adapter task already started or start in progress.

IHS0123I
adapter task already stopped or stop in progress.

IHS0124I
adapter task initialization complete.

IHS0130E
EAS initialization file error ==>

IHS0131E
File *file*, line *line*, position *position*.

IHS0132E
command *command* unknown.

IHS0133E
command *command* syntactically incorrect.

IHS0134E
command *command* value *value* not supported.

IHS0135E
keyword *keyword* unknown.

IHS0136E
keyword *keyword* syntactically incorrect.

IHS0137E
keyword *keyword* value *value* not supported.

IHS0143I
service status addinfo

IHS0147I
task qcount sent recvd

IHS0148E
adapter: CDS file *file* cannot be opened.

IHS0149E
adapter: File read error in CDS file *file*.

IHS0150E
adapter: CDS INCLUDE file name *file* is incorrect.

IHS0168I
task output file is *file*

IHS0169E
Failure opening or writing to OUTPUT file *outfile*. Standard output will be used.

IHS0178E
taskname task CFG file error ==>

IHS0182I
<==Current *service* Service Settings==>

IHS0183I
taskname task CFG file error ==>

IHS0185I
setting = *value* (*fromtype*)

IHS0186I
Filter *number* slots:

IHS0187I
slotname=*slotvalue*;

IHS0188I
FilterCache *number* slots:

IHS0190E
service: Could not access the TestMode file.

IHS0191I
service: Number of ServerLocations (*number*) exceeds the maximum of *maximum*; ignoring extras.

IHS0192I
service: Server connections are suspended.

IHS0193I
service: Server connections have been resumed.

IHS0194E
service: A file access error occurred for the cache file.

IHS0195E
service: An event cannot be cached: The event size is greater than the maximum cache file size.

IHS0196I
service: File access errors have been corrected. Caching is resumed.

IHS0197E
service: Cache file corrupted. The current contents will be discarded.

IHS0198E
service: An event in the cache file is not properly terminated. The event will be discarded.

IHS0199E
service: An event in the cache file is too large for the Read buffer. The event will be discarded.

IHS0200I
service: Number of ServerPorts (*number*) exceeds the maximum of *maxnum*

IHS0201E
service: At least one ServerLocation must be specified.

Note: The BNH847I message has been changed to return the local XCF address and not a target XCF address.

Deleted Messages

BNH831I	BNH832I	BNH833I	BNH848I
BNH850I	CNM241I	CNM242I	CNM244I
CNM245I	CNM560I	CNM561I	CNM565I
CNM566I	CNM1205E	CNM1206E	CNM1207E
CNM1208E	CNM1268E	CNM1269I	CNM1270I
CNM1274I	CNM1275I	CNM1304E	CNM1305E
CNM1306E	CNM1307I	CNM1308I	CNM1311I
CNM1312I	CNM1314I	CNM1315I	CNM1319I
CNM1320E	CNM1321E	CNM1322E	CNM1323E
CNM1324E	CNM1325I	CNM1326I	CNM1327I
CNM1328I	CNM1329I	CNM1330E	CNM1331E
CNM1332E	CNM1400I	CNM1401I	CNM1402I
CNM1403I	CNM1404I	CNM1406I	CNM1407I
CNM1408I	CNM1409I	CNM1410I	CNM1413E
CNM1414E	CNM1416E	CNM1417E	CNM1418I
CNM1420E	CNM1421E	CNM1422E	CNM1423E
CNM1424E	CNM1425E	CNM1426E	CNM1427E
CNM1428E	CNM1429E	CNM1430E	DUI545E
DWO112I	DWO113I	DWO114I	DWO623I
FLC004E	FLC005I	FLC007E	FLC009I
FLC067E			

Samples

This section lists new and deleted samples for migration considerations.

- "New Samples" on page 140
- "Deleted Samples" on page 141

New Samples

CNMIPMGT	CNMSALRT	CNMSCRT1	CNMSDCA
CNMSDDCR	CNMSDVCG	CNMSDVDS	CNMSDVPH
CNMSDVST	CNMSDVTP	CNMSHIPR	CNMSIFST
CNMSJTLS	CNMSMF3A	CNMSMF3E	CNMSMF3F
CNMSMF3R	CNMSMSIP	CNMSNVST	CNMSOSAP
CNMSRVAR	CNMSRVMC	CNMSSMON	CNMSTNST
CNMSTPST	CNMSVPRT	CNMSXCFA	EKG51100
EKG61100	FKXIPMTB	FKXOPFIP	FKXSCM
FLCSIPIP	FLCSOX02	FLCSPAUT	IHSABCDS

IHSABCFG	IHSANCFG	IHSANFMT	

Deleted Samples

CNMSJEMA	CNMSJI04	CNMSJI05	CNMSJIE1
CNMSJIE2	CNMSJIE3	CNMSJIE4	CNMSJK61
CNMSJKVW	FLCSDM6L	FLCSILNM	FLCSLALH
FLCSLAUT			

Command Changes

This section lists new, changed, and deleted commands for migration considerations.

- "New Commands" on page 141
- "Changed Commands" on page 142
- "Deleted Commands" on page 143

New Commands

Table 54 on page 141 lists new commands to review during migration.

Table 54. List of New Commands

Command	Description
CNMEDRCL	Starts DVIPA data collection on the specified NetView domain.
COLLCTL	Controls the collection of data by the NetView program when using a timed interval on an autotask.
DVIPDDCR	Collects distributed DVIPA connection routing information.
DVIPHLTH	Collects distributed DVIPA server health information.
GETTOPO ITNMDETAIL	Collects IBM Tivoli Network Manager resource topology and status.
GETTOPO ITNMONLY	Collects MultiSystem Manager IBM Tivoli Network Manager agent status.
GETTOPO ITNMRES	Collects MultiSystem Manager IBM Tivoli Network Manager agent and resource status.
HIPERSOC	Provides HiperSockets adapter information from a 3270 console or from the Tivoli Enterprise Portal using the Tivoli NetView for z/OS Enterprise Management Agent.
IFSTAT	Collects TCP/IP stack interface information. You can use the CNMSIFST sample to view the information that is collected.
NVSTAT	Collects configuration and status information about the NetView domains that are known to this NetView program. You can use the CNMSNVST sample to view the information that is collected.
OSAPORT	Provides OSA channel and port information from a 3270 console or from the Tivoli Enterprise Portal using the Tivoli NetView for z/OS Enterprise Management Agent.
PIPE XCFMSG	Sends and receives XCF messages.
PIPE XCQUERY	Retrieves XCF data for group members.
PIPE XCFTABLE	Retrieves and sets XCF group state field information.

Table 54. List of New Commands (continued)

Command	Description
PLEXCTL	Changes the rank of the NetView program in the DSIPLX*nn* group in which it participates. If the NetView program is the group master, this command can also be used to control whether the master NetView program will allow another NetView program to assume the master role in the sysplex group.
REISSUE	Determines whether a revised command is to be issued or suppressed. This command is used for the MVS Command Revision function.
RESETSRV	Resets the connection for adapter services.
REVISE	Replaces and extends the REVISMSG command.
SETRVAR	Creates a table of variable names and values that is accessible from revision edit scripts.
TELNSTAT	Collects configuration and status information about Telnet servers.
TNPTSTAT	Collects configuration and status information about Telnet server ports.
VIPAROUT	Collects status information about VIPA routes.

Changed Commands

The following commands were changed:

- ALERTC - TASK keyword
- CLOSE
- DISPLAY (E/AS) - no syntax changes; output can include information on two new tasks (confirmed message adapter and confirmed alert adapter)
- DVIPCONN
- DVIPPLEX
- DVIPSTAT (SYSNAME removed)
- DVIPTARG
- ENDTASK
- IPTRACE
- INITNRM
- INITSTM - AUTOTASK keyword has new default (AUTOAON)
- LIST (NCCF)
- MESSAGEC - TASK keyword
- MVSPING
- NACMD - Removed NetView for z/OS Tivoli Enterprise Portal Agent support. The command list associated with the NACMD command changed from CNME7200 to CNME8200.
- NACTL - Removed NetView for z/OS Tivoli Enterprise Portal Agent support
- OUTPUT (E/AS) - no syntax changes; output can include information on two new tasks (confirmed message adapter and confirmed alert adapter)
- QRYKEEP - Added LOCAL or GLOBAL as the keep name
- RECYCLE (E/AS)
- RESETSRV (E/AS)
- RESTYLE
- RMTCMD

- SETTINGS (E/AS)
- STACSTAT
- START (E/AS)
- START (NCCF)
- STOP (E/AS)
- STOP (NCCF)
- STOPNA - Removed NetView for z/OS Tivoli Enterprise Portal Agent support
- TRACE (E/AS)

Deleted Commands

The following commands were deleted:

- ADAPTER (CNME8501)
- BRIDGE (CNME8503)
- GETTOPO LNMADP, LNMBRG and LNMCAU
- GETTOPO LNMRES and LNMONLY
- GETTOPO LNMSEG
- LAN (CNME8500)
- NALBRW (CNME7205)
- NAEDVPT (CNME7210)
- NAEDVP1 (CNME7211)
- NAEDVP2 (CNME7212)
- NAEDVP3 (CNME7213)
- NASESMG (CNME7221)
- NATCPCON (CNME7225)
- PATH (CNME8507)
- QNETWORK (CNME8505)
- RESETLAN (CNME8508)
- SEGMENT (CNME8506)

Enterprise Management Agent Changes

The following changes are available with the Tivoli NetView for z/OS Enterprise Management Agent for Version 5 Release 4:

- A new workspace and a new attribute group are added for monitoring the NetView applications that are available in the sysplex.
- A new workspace and two new attribute groups are added for monitoring the configuration and status of the Telnet servers and Telnet server ports that are available in the sysplex.
- Five new workspaces and a new attribute group are added for monitoring the health statistics for all application servers that reside on distributed DVIPA targets.
- A new workspace and a new attribute group are added for monitoring distributed DVIPA connection routing.
- A new workspace and a new attribute group are added for monitoring VIPA routes.
- A new workspace and a new attribute group are added for monitoring the channel and port configuration data of OSA-Express2 10 Gigabit and OSA-Express3 adapters.

- A new workspace and a new attribute group are added for monitoring the configuration and status of HiperSockets interfaces.
- All queries and workspaces that are new or changed for the V5R4 Tivoli NetView for z/OS Enterprise Management Agent include the qualifier（V540）in the query and workspace descriptions. Queries and workspaces that were part of the product before V5R4 do not include a qualifier. The identification of the version, release, and modification level for queries and workspaces begins with V5R4.
- IBM Tivoli Monitoring V6.2 provides a new SORTBYINTERNAL option that allows ENUM values that are defined for integer attributes to be sorted numerically rather than alphanumerically. All Tivoli NetView for z/OS Enterprise Management Agent integer attributes that have ENUM values defined are updated with the new SORTBYINTERNAL option.
- New situations and take action commands, and additional dynamic linking from selected NetView for z/OS workspaces to IBM Tivoli OMEGAMON XE for Mainframe Networks workspaces, are provided to support the new functions.
- By default, all situations do not start automatically and must be manually started to run. Some of the situations that were provided with the NetView for z/OS Enterprise Management Agent in V5R3 were enabled to run at startup. In NetView for z/OS V5R4, no situations are distributed and enabled to run at startup. This change decreases the initial processing overhead related to the distribution of the product-provided situations. You can use the situations that are provided with the NetView for z/OS Enterprise Management Agent as templates and as a starting point to determine which situations to customize to meet your monitoring needs. For information about creating or modifying situations, see the *IBM Tivoli Monitoring User's Guide*. The following situations, which were automatically started in NetView for z/OS V5R3, are no longer automatically started in NetView for z/OS V5R4:
  - NAS_NVTask_CPU_Util_Crit
  - NAS_NVTask_Input_Msg_Rate_Crit
  - NAS_NVTask_IO_Rate_Crit
  - NAS_NVTask_Msg_Queue_Crit
  - NAS_NVTask_Output_Mst_Rate_Crit
  - NAS_NVTask_Storage_Crit
- The NAS_DVIPA_Number_of_Connections situation is no longer applicable in V5R4 because the attribute in the situation formula belongs to a deprecated attribute group. A new situation, NAS_DVIPA_Targ_Active_Conns, provides a similar capability in V5R4.
- The NAS_DVIPA_Server_Accept_Percent situation is no longer applicable in V5R4 because the attribute in the situation formula belongs to a deprecated attribute group. A new situation, NAS_DVIPA_Target_Serv_Resp_Rate, provides a similar capability in V5R4.
- The following situations are new:
  - NAS_DVIPA_Abnorm_Trans_Percent
  - NAS_DVIPA_Active_Target_Stacks
  - NAS_DVIPA_Bytes_Received
  - NAS_DVIPA_Bytes_Sent
  - NAS_DVIPA_Pct_Seg_Retran
  - NAS_DVIPA_Port_Health_Percent
  - NAS_DVIPA_Targ_Active_Conns
  - NAS_DVIPA_Targ_Delta_Conns
  - NAS_DVIPA_Targ_Listening_Srvrs
  - NAS_DVIPA_Target_Serv_Resp_Rate
  - NAS_DVIPA_WLM_Weight
  - NAS_NVApp_Status
  - NAS_NVApp_Total_CPU

  - NAS_NVApp_Total_Storage
  - NAS_Telnet_Active_Ports
  - NAS_Telnet_Configured_Ports
  - NAS_Telnet_SP_Port_Status
  - NAS_Telnet_SP_Server_Status
- The following attribute groups are deprecated:
  - NA DVIPA Distributor Targets
  - NA DVIPA Workload By Port
  - NA Inactive Session Count
  - NA Inactive Session Data
- Table 55 on page 145 shows the workspaces that are new and the associated attribute group or groups.

Table 55. New Workspaces

Workspace	**Attribute Group**
Application-Instance DVIPA	DVIPA Definition and Status
Distributed DVIPA Connection Routing	Distributed DVIPA Connection Routing
Distributed DVIPA Server Health	Distributed DVIPA Server Health
Distributed DVIPA Server Health Details	Distributed DVIPA Server Health
Distributed DVIPA Targets	Distributed DVIPA Targets
Distributed DVIPA Unhealthy Servers	Distributed DVIPA Server Health
DVIPA Stack Summary	DVIPA Definition and Status DVIPA Sysplex Distributors Distributed DVIPA Targets
DVIPA Workload	Distributed DVIPA Targets
Filtered Distributed DVIPA Server Health	Distributed DVIPA Server Health
Filtered Distributed DVIPA Targets	Distributed DVIPA Targets
Filtered Distributed DVIPA Unhealthy Servers	Distributed DVIPA Server Health
Filtered DVIPA Sysplex Distributors	DVIPA Sysplex Distributors
Filtered Telnet Server Configuration and Status	Telnet ServerTelnet Server Port
HiperSockets Configuration and Status	HiperSockets Configuration and Status
NetView Applications	NetView Applications
OSA Channels and Ports	OSA Channels and Ports
Stack-Defined DVIPA	DVIPA Definition and Status
Telnet Server Configuration and Status	Telnet ServerTelnet Server Port
VIPA Routes	VIPA Routes

- Table 56 on page 146 shows the changes to existing workspaces.

Table 56. Workspace Changes	
Workspace	**Changes**
DVIPA Distributor Targets	– The DVIPA Distributor Targets workspace is no longer the default workspace from the DVIPA Distributor Targets item in the Navigator view. Both the DVIPA Distributor Targets workspace and the NA DVIPA Distributor Targets attribute group are deprecated. – The Distributed DVIPA Targets workspace is the new default workspace from the DVIPA Distributor Targets item in the Navigator view.

Table 56. Workspace Changes (continued)

Workspace	Changes
DVIPA Connections	– The following attributes are added: - Address Space ID - AT-TLS Cipher - AT-TLS Connection Status - AT-TLS Partner Userid - AT-TLS Policy Status - AT-TLS Security Type - AT-TLS SSL Protocol - Byte Rate - Bytes Received - Bytes Sent - Bytes Sent or Received - Connection Start Time - Connection State - Current Send Window Size - DDVIPA - Interface Name - Last Activity Remote Timestamp - Last Activity Timestamp - Last Timestamp Age - Max Send Window Size - Number of Duplicate ACKS - Passive or Active Open - Percent Segments Retransmitted - Segments Received - Segments Retransmitted - Segments Sent - Segments Sent or Received - Sysplex Name - TCB Address - TCPIP Job Name - Telnet Logmode - Telnet Protocol - Telnet User Client Name - Total Segments - Total Segments Received - Total Segments Retransmitted - Total Segments Sent - zOS Image Name - zOS Release Level – The Percent Segments Retransmitted >= 3 bar chart view replaces the Total Bytes = 0 table view. The queries for the DVIPA Connection Summary table view and the Percent Segments Retransmitted >= 3 bar chart view use the Byte Rate attribute to filter the rows that can be retrieved for display.

Table 56. Workspace Changes (continued)

Workspace	Changes
DVIPA Definition and Status	– The following attributes are added: - Application Server Name - Time Activated – The caption for the existing Collection Time attribute is changed to Update Time.
DVIPA Sysplex Distributors	– The following attributes are added: - Configured Target Stacks - DESTIP ALL - ILWEIGHTING - Interface Name - Mobility - PROCTYPE CP - PROCTYPE zAAP - PROCTYPE zIIP - PROCXCOST zAAP - PROCXCOST zIIP - Rank - Status - zOS Release Level – The caption for the existing Number of Target Stacks attribute is changed to Active Target Stacks. – The caption for the existing Number of Listening Servers is changed to Listening Servers. – The caption for the existing Collection Time attribute is changed to Update Time. – The following values for the existing Distribution Method attribute are added: - weightedActive (4) - TargetControlled (5) – The Sysplex DVIPA Target Stacks for DVIPA bar chart view is renamed to the Target Stacks for DVIPA bar chart. The Y-axis is renamed from Targets Stacks to Active Target Stacks. – The Listening Servers for DVIPA bar chart is added to provide a snapshot of the number of listening servers for each distributed DVIPA in the sysplex. – The DVIPA Distributed Targets link is deprecated. A new link, Distributed DVIPA Targets, is defined. – The following conditional links are added: - The Distributed DVIPA Connection Routing link is enabled only if the sysplex distributor is discovered on a z/OS V1R11 or later system. - The VIPA Routes link is enabled only if the sysplex distributor is discovered on a z/OS V1R11 or later system.

Table 56. Workspace Changes (continued)	
Workspace	**Changes**
DVIPA Workload by Port	– The DVIPA Workload by Port workspace and the NA DVIPA Distributor Targets attribute group are deprecated. A new workspace, DVIPA Workload, is provided to view selected distributed DVIPA targets.

Table 56. Workspace Changes (continued)

Workspace	Changes
Filtered DVIPA Connections	– The following attributes are added: - Address Space ID - AT-TLS Cipher - AT-TLS Connection Status - AT-TLS Partner Userid - AT-TLS Policy Status - AT-TLS Security Type - AT-TLS SSL Protocol - Byte Rate - Bytes Received - Bytes Sent - Bytes Sent or Received - Connection Start Time - Connection State - Current Send Window Size - DDVIPA - Interface Name - Last Activity Remote Timestamp - Last Activity Timestamp - Last Timestamp Age - Max Send Window Size - Number of Duplicate ACKS - Passive or Active Open - Percent Segments Retransmitted - Segments Received - Segments Retransmitted - Segments Sent - Segments Sent or Received - Sysplex Name - TCB Address - TCPIP Job Name - Telnet Logmode - Telnet Protocol - Telnet User Client Name - Total Segments - Total Segments Received - Total Segments Retransmitted - Total Segments Sent - zOS Image Name - zOS Release Level – The Percent Segments Retransmitted >= 3 bar chart view replaces the Total Bytes = 0 table view. – A new navigational link is added. Distributed DVIPA Connection Routing links to the Distributed DVIPA Connection Routing workspace using DVIPA and DVIPA Port as the link attributes. This link is enabled

Table 56. Workspace Changes (continued)

Workspace	Changes
Filtered DVIPA Definition and Status	– The following attributes are added: - Application Server Name - Time Activated – The caption for the existing Collection Time attribute is changed to Update Time.
Filtered DVIPA Distributor Targets	– The Filtered DVIPA Distributor Targets workspace and the NA DVIPA Distributor Targets attribute group are deprecated. A new workspace, Filtered Distributed DVIPA Targets, is provided to view filtered distributed DVIPA targets.
Filtered Inactive TCPIP Connection Data	– The following attributes are added: - AT-TLS Connection Status - AT-TLS Policy Status - Termination Reason Code - Passive or Active Open - Type of Service
Inactive TCPIP Connection Data	– The following attributes are added: - AT-TLS Connection Status - AT-TLS Policy Status - Termination Reason Code - Passive or Active Open - Type of Service
NetView Tasks	– The NetView Tasks workspace is no longer the default workspace from the NetView Health item in the Navigator view. To continue to access this workspace from the NetView Health navigator item, select and right-click **NetView Health**, click **Workspace**, and then click **NetView Tasks**. You can also access the NetView Tasks workspace from a link in the NetView Applications workspace.

Table 56. Workspace Changes (continued)	
Workspace	**Changes**
Stack Configuration and Status	– The following attributes are added: - IP Address - IPSecV6 Enabled - Segmentation Offload Enabled - Source VIPA Enabled - Source VIPAV6 Enabled - Sysplex WLM Polling Interval - TCP Stack Source VIPA Enabled - TCP Stack Source VIPAV6 Enabled - VTAM XCF Group - zIIP IP Security Enabled – The DVIPA Definition and Status link is deprecated. The following links are added: - DVIPA Stack Summary (default link) - Telnet Server Configuration and Status

- The following take action commands are new:
  - List Status for All NetView Tasks
  - Quiesce the Telnet Server Port
  - Resume the Telnet Server Port
  - View Application-Instance DVIPA
  - View Distributed DVIPA Connection Routing
  - View Distributed DVIPA Server Health
  - View HiperSockets Configuration and Status
  - View NetView Applications
  - View NetView Resource Utilization
  - View OSA Channels and Ports
  - View Stack-Defined DVIPA
  - View TASKMON Data For All Tasks
  - View TASKUTIL Data For All Tasks
  - View Telnet Server Configuration and Status
  - View Telnet Server Port Configuration and Status
  - View VIPA Routes
- Table 57 on page 152 shows the changes to the existing take action commands.

Table 57. Take Action Command Changes		
Take Action Name	**V5R3 Take Action Command**	**V5R4 Take Action Command**
List NetView Task	List KNAHEA.*Task_Name*	List Task=KNAHEA.*Task_Name*
View DVIPA Connections	CNMSDVPC DVIPA=*dvipa* PORT=*dvipaport* TARGETXCF=*xcfaddr* SERVERJOBNAME=(*jobname*)	CNMSDVPC DVIPA=*dvipa* PORT=*dvipaport* SERVERJOBNAME=(*jobname*) MAXRECS=*maxrecs*

Table 57. Take Action Command Changes (continued)		
Take Action Name	**V5R3 Take Action Command**	**V5R4 Take Action Command**
View DVIPA Definition and Status	CNMSDVIP DVIPA=*dvipa* SYSNAME=*tcpstk*	CNMSDVIP DVIPA=*dvipa* DISPLAY=DEFSTAT
View Stack Configuration and Status	CNMSSTAC STACK=*jobname* SYSNAME=*zosimage*	CNMSSTAC STACK=*jobname*

Reports Using Tivoli Common Reporting Changes

The Tivoli NetView for z/OS Enterprise Management Agent provides a set of predefined reports to be used with Tivoli Common Reporting. The following changes were made to the reports:

- The DVIPA Workload report was deprecated.
- A new report, Distributed DVIPA Server Health, is provided on the Tivoli NetView for z/OS Enterprise Management Agent application CD in the REPORTS directory.

For additional information on the reports, see *IBM Tivoli NetView for z/OS Installation: Configuring the NetView Enterprise Management Agent*.

Appendix B. Changes from Tivoli NetView for z/OS V5R4 to Tivoli NetView for z/OS V6R1

This appendix includes a summary of changes for the NetView V6R1 release. It also lists new, changed, and deleted:

- "Command Lists" on page 159
- "Messages" on page 160
- "Samples" on page 167
- "Command Changes" on page 168

Note: The lists in this section are listed alphabetically from left to right.

This appendix also lists the changes for Tivoli NetView for z/OS Enterprise Management Agent; see "Enterprise Management Agent Changes" on page 169.

Summary of Changes for NetView V6R1

Changes for NetView V6R1 are included in the following sections:

- "Automation" on page 155
- "IP Management" on page 156
- "Sysplex and System Management" on page 156
- "Enterprise Integration" on page 157
- "GDPS Active/Active Continuous Availability Solution" on page 157
- "Additional Enhancements" on page 157
- "Removed Functions" on page 158
- "Library Changes" on page 158

Automation

Table 58. Automation Enhancements

Function	Description	Additional information
Simplified configuration	MVS messages can be sent to the NetView program for automation and browsing without manual decisions having to be made. A shared data space is established to capture all z/OS, NetView, and job messages in a consolidated log for automation. In addition, all message attributes are available for automation. You can also create your own attributes that can be passed on for further automation or for viewing by operators.	• *IBM Tivoli NetView for z/OS User's Guide: NetView* • *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*

IP Management

Table 59. IP Management Enhancements

Function	Description	Additional information
IP packet trace analysis	The NetView IP packet trace function was enhanced to analyze data in a packet trace to identify potential problems. This enhancement significantly reduces the time needed for problem identification and diagnosis. You can use the new PKTTRACE command to start and stop traces and select trace criteria. It simplifies tracing by automatically starting any required trace components that are inactive. The traces can be saved for later use.	*IBM Tivoli NetView for z/OS IP Management*

Sysplex and System Management

Table 60. Sysplex and System Management Enhancements

Function	Description	Additional information
Consolidated and archived message log and enhanced browsing	The NetView logging and browsing functions are enhanced to provide consolidated access to all NetView, system, and job messages. A consolidated audit, NetView, and z/OS log (Canzlog) browser includes expanded access to message attributes on individual messages, which provides improved visibility of system activities. You can easily apply robust filtering to retrieve specific log records that are based on a large selection of factors, including time range, job name, job ID, message ID, address space type, domain, authorization identities and groups, automation token, user-defined attributes, or combinations of these factors. To significantly reduce problem determination time, you can use the Canzlog function to filter messages from various logs around a certain time frame or to filter messages from a specific domain or job. This filtering provides improved availability and overall control. The Canzlog data can be automatically archived. The archived data is available to the browser and to the REXX and pipe programming interface to provide increased management and reporting of system activities.	• *IBM Tivoli NetView for z/OS User's Guide: NetView* • *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*
Support for zEnterprise®	Data was added to a workspace to identify the new zEnterprise environment.	*IBM Tivoli NetView for z/OS User's Guide: NetView Enterprise Management Agent*
DVIPA support for hot-standby	DVIPA support was expanded to include support for the new z/OS V1R12 Communications Server Hot-standby forwarding distribution method.	DVIPPLEX and DVIPTARG command help

Enterprise Integration

Table 61. Enterprise Integration

Function	Description	Additional information
MultiSystem Manager	The NetView MultiSystem Manager function is now more tightly integrated with IBM Tivoli Network Manager. This tighter integration enables better view creation and display of network relationships. The MultiSystem Manager agent for IBM Tivoli Network Manager gathers the views and relationships and loads them into the NetView for z/OS Resource Object Data Manager (RODM) data cache. These resources can then be viewed and managed from the NetView management console.	*IBM Tivoli NetView for z/OS Administration Reference*
Discover Library Adapter (DLA)	The DLA function was changed to better utilize z/OS data in RODM. The DLA function can now gather sysplex and z/OS system information populated in RODM by the NetView discovery manager function. The DLA function can also work with data that was stored in RODM by the MultiSystem Manager agent for IBM Tivoli Network Manager.	*IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*

GDPS Active/Active Continuous Availability Solution

Table 62. GDPS Active/Active Continuous Availability solution

Function	Description	Additional information
Support for GDPS Active/Active Continuous Availability solution	The solution provides cross-site workload balancing and provides continuous availability with disaster recovery for your systems. The NetView program provides workload distribution management and replication management capabilities by monitoring key performance and availability metrics.	*IBM Tivoli NetView Monitoring for GDPS Configuring and Using the GDPS Active/Active Continuous Availability Solution*
Scope of the enterprise master	Both discovery manager data and Active/Active data can be forwarded to an enterprise master. You can have different enterprise masters for Active/Active data and discovery manager data, depending on the NetView configuration. If you have multiple enterprise masters, they must reside in different sysplexes or on separate stand-alone systems.	*IBM Tivoli NetView Monitoring for GDPS Configuring and Using the GDPS Active/Active Continuous Availability Solution*

Additional Enhancements

Table 63. Additional Enhancements

Function	Description	Additional information
Installation	Starting with z/OS 1.12, you no longer have to add NetView modules into the SCHED*xx* member of the SYS1.PARMLIB data set. This reduces the time required for installation.	Table 9 on page 10

Table 63. Additional Enhancements (continued)		
Function	**Description**	**Additional information**
Default logon profile	With the default logon profile, operators that are defined in an SAF product no longer have to be defined in the DSIOPF member. Operators can also be defined in the DSIOPF member without logon profiles.	*IBM Tivoli NetView for z/OS Security Reference* or the online help for the DEFAULTS command (see the LOGPROF operand)
Enterprise PL/I for z/OS support	Support was added for Enterprise PL/I for z/OS V3R9M0	*IBM Tivoli NetView for z/OS Programming: PL/I and C*
Currency updates	• NetView management console: updated the user interface to align with other Tivoli products • NetView for z/OS Enterprise Management Agent added support for new data types and display of 64-bit data	

Removed Functions

Removal of the functions listed in Table 64 on page 158 was announced in NetView V5R4.

Table 64. Removed Functions		
Function	**Description**	**Additional information**
Web application portfolio tasks	All portfolio tasks except *Launch Procedures* and *About* were removed. These tasks were renamed to *Launch Sample URL* and *Welcome*, respectively.	For information about the Web application, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.
NetView 3270 management console	The obsolete NetView 3270 management console and all related functions were removed.	
MultiSystem Manager agents	The following obsolete agents were removed: • IP • Tivoli Management Region (TMR)	
Programmable Network Access (PNA)	All Programmable Network Access (PNA) functions were removed.	
Sysplex IP stack manager	Sysplex IP stack manager was replaced by discovery manager.	For information about discovery manager, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

Library Changes

Table 65. Library Changes		
Publication	**Description**	**Additional information**
IBM Tivoli NetView for z/OS User's Guide: NetView Enterprise Management Agent	This new manual was added to the library. It describes how to use the IBM Tivoli NetView for z/OS Enterprise Management Agent.	*IBM Tivoli NetView for z/OS User's Guide: NetView Enterprise Management Agent*

Table 65. Library Changes (continued)		
Publication	**Description**	**Additional information**
IBM Tivoli NetView for z/OS Users Guide: Web Application	This manual was removed from the library.	For information about the Web application, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.
IBM Tivoli NetView for z/OS Installation: Configuring the GDPS Active/Active Continuous Availability Solution	This new manual was added to the library. It describes how to install the NetView portions of the GDPS Active/Active Continuous Availability solution.	*IBM Tivoli NetView for z/OS Installation: Configuring the GDPS Active/Active Continuous Availability Solution*

Command Lists

This section lists new and deleted command lists for migration considerations.

- "New Command Lists" on page 159
- "Deleted Command Lists" on page 159

Do not issue these command lists from a NetView command line. Most of the NetView command lists that are included with the NetView program are used internally by the NetView program and might have unpredictable results when issued from a NetView command line.

New Command Lists

AQNE1000	AQNE1001	AQNE1002	AQNE1003
AQNE1004	AQNE1005	CNME1039	CNMECANZ
CNMECZAL	CNMECZDS	CNMECZFS	CNMECZMD
CNMECZWX	FKXE221C	FKXE2B00	FKXE2B50
FKXE2B6A	FKXE2B60	FKXEDRP1	FKXEDTLS
FKXETRM1	FKXETRP1	FKXETRS3	FKXETRS4
FKXETRS5	FKXETRSI	FKXETRST	FKXETRSU
FKXETVS1	FKXETVS2		

Deleted Command Lists

CNMESPAT	CNMESPAU	CNMESPAY	CNMESPIN
CNMESPRO	CNMESPWE	FLCAEFSU	FLCAEREQ
FLCAHALH	FLCAHAPP	FLCAHAT2	FLCAHAUT
FLCAHPRO	FLCAHSER	FLCAHSYS	FLCAIAUT
FLCAINET	FLCAIPEN	FLCAIPSK	FLCAISTK
FLCAIVER	FLCATALH	FLCATAUT	FLCATHST
FLCATVER			

Messages

This section lists new, changed, and deleted messages for migration considerations.

- "New Messages" on page 160
- "Changed Messages" on page 164
- "Deleted Messages" on page 167

New Messages

AQN001I
NO SOCKET PATH NAMES FOUND FOR DATA SOURCE *subtower_name* DOMAIN *domain*

AQN002I
DATA COLLECTION FAILED FOR DATA SOURCE *subtower_name*, SOCKET PATH NAME *path*

AQN003I
LOCAL DOMAIN *domain_name* NOW ENTERPRISE MASTER FOR ACTIVEACTIVE

AQN004E
ENT.ACTIVEACTIVE.ROLE STATEMENT REQUIRED IF ACTIVEACTIVE SPECIFIED ON ENT.TYPE

AQN006I
DUPLICATE *subtower_name*, SOCKET PATH NAME *path* IGNORED

AQN007I
DISPLAY ACTIVE/ACTIVE DATA COLLECTION INFORMATION

AQN008I
REPLICATION SERVER SITUATION OR POLICY NAME IS *name*

AQN009I
DATA COLLECTION FOR *subtower_name* RESTARTED

AQN010I
DATA COLLECTION FOR *subtower_name* ALREADY STARTED

AQN011I
DATA COLLECTION FOR *subtower_name* ALREADY STOPPED

AQN012I
cmd COMMAND NOT PROCESSED. CURRENT VALUE *interval* FOR *subtower_name* MATCHES CHANGE VALUE.

AQN013I
DATA COLLECTION INTERVAL FOR *subtower_name* SET TO *interval*

AQN014E
ACTIVEACTIVE.LIFELINE SUBTOWER REQUIRES A VALUE OF ACTIVEACTIVE ON THE ENT.TYPE STATEMENT

AQN015E
ACTIVEACTIVE ENTERPRISE MASTER PROCESSING FAILED

AQN016A
Reply Yes if Tivoli Enterprise Monitoring Server is inactive on system *system*. Otherwise, reply No.

AQN017I
domain ON *system* IS ALREADY AN ACTIVEACTIVE ENTERPRISE MASTER NETVIEW

AQN018I
Tivoli Enterprise Monitoring Server *procstr* is already active. Results may be unpredictable.

AQN019E
CONNECTION FAILURE TO *server* ON SOCKET PATH *path*. REPORTING MODULE=module_name. RC: *return_code* REASON: *reason*

AQN020I
DISPLAY OF LIFELINE ADVISORS

AQN021I
DISPLAY OF LIFELINE AGENTS

AQN022I
DISPLAY OF LOAD BALANCER GROUPS FOR LOAD BALANCER AT IP ADDRESS *ipaddress*

AQN023I
DISPLAY OF LOAD BALANCERS

AQN024I
DISPLAY OF LOAD BALANCER WORKLOADS FOR LOAD BALANCER AT IP ADDRESS *ipaddress*

AQN025I
DISPLAY OF WORKLOAD SERVERS

AQN026I
DISPLAY OF WORKLOAD SITES FOR WORKLOAD *workload_name*

AQN027I
DISPLAY OF WORKLOADS

AQN028I
SOCKET PATH NAME *path* NOT CONFIGURED FOR *subtower_name*

AQN029I
UNEXPECTED VALUE *value* RECEIVED FOR *fieldname* FOR DATA SOURCE *subtower_name*

AQN030I
DISPLAY OF REPLICATION SERVER WORKLOADS *workload_name* FOR DATA SOURCE *type*

AQN031I
DISPLAY OF &imsnotm; REPLICATION CAPTURE SERVER *server_job_name* DATA FOR WORKLOAD *workload_name*

AQN032I
DISPLAY OF &imsnotm; REPLICATION APPLY SERVER *server_job_name* DATA FOR WORKLOAD *workload_name*

AQN033I
DISPLAY OF Q REPLICATION DATA FOR SEND QUEUE *send_queue* WORKLOAD *workload_name*

AQN034I
DISPLAY OF Q REPLICATION DATA FOR RECEIVE QUEUE *receive_queue* WORKLOAD *workload_name*

AQN035I
DISPLAY OF Q REPLICATION CAPTURE SERVER *server_job_name* DATA ON SITE *server_site*

AQN036I
DISPLAY OF Q REPLICATION CAPTURE SERVER *server_job_name* DATA ON SITE *server_site*

AQN037I
DOMAIN *domain* IS NOT PARTICIPATING IN AN XCF GROUP

AQN038I
DOMAIN NOT FOUND FOR *server_type* SITE *sysplex* SYSTEM *system*

AQN039I
TOWER ACTIVEACTIVE.REPLICATION.*subtower* NOT ENABLED FOR DOMAIN *domain*

AQN040I
COMMON GLOBAL VARIABLE variable IS NOT DEFINED FOR DOMAIN *domain*

AQN041I
SOCKET PATH DEFINITION *statement* IS NOT SEQUENTIAL

AQN042I
MAXIMUM NUMBER OF *subtower_name server_type* SOCKET PATH DEFINITIONS EXCEEDED

BNH900I
ENTERPRISE MASTER FOR TYPE *data_type* ESTABLISHED

BNH901I
NEW MASTER: *domain* ON *system* IN XCF GROUP *xcf_group* IN SYSPLEX *sysplex*

BNH902I
OLD MASTER: *domain* ON *system* IN SYSPLEX *sysplex*

BNH903I
Reason: *reason_code*

BNH904I
ENTERPRISE MASTER SWITCH FOR TYPE *data_type* IN XCF GROUP *xcf_group* IN SYSPLEX *sysplex*

BNH905I
ENTERPRISE MASTER PROCESSING FINISHED. SYSTEMS FORWARDING DATA:

BNH906I
DOMAIN SYSTEM SYSPLEX GROUP TYPES *domain image_name sysplex xcf_group data_type*

BNH907I
ENTERPRISE MASTER REQUEST REJECTED FOR GROUP *xcf_group* IN SYSPLEX *sysplex* FOR TYPE *data_type*. EXISTING MASTER IS *system* ON *image_name* IN SYSPLEX *master_sysplex_id*. REASON=*reason_code*

BNH908I
DOMAIN *domain_name* ON SYSTEM *image_name* IN SYSPLEX *sysplex* SUPPORTS ONLY THE DISCOVERY ENTERPRISE DATA TYPE

BNH909I
ERROR ENCOUNTERED IN ENTERPRISE PROCESSING FOR TYPE *data_type* AT *domain_name* ON *image_name* IN SYSPLEX *sysplex*

BNH910I
NO SYSTEMS FORWARDING DATA FOR TYPE *data_type*

BNH911I
request : No data found for '*subject*'

BNH912I
FiltType FILTER *FiltName* ALREADY EXISTS

BNH913I
IP ADDRESS INFORMATION NOT AVAILABLE FOR DOMAIN *domain* IN SYSPLEX *plex*

CNM598W
Subsystem is not active for *ssi_name*

CNM600I
object status: *object_status*

CNM617I
NetView subsystem *ssi_name* initialized successfully

CNM1256E
The function *task* is not supported.

DWO090A
action error for *component*. Maintenance required.

DWO091I
action received. No operator dataset defined for *DDN*.

DWO092I
action ignored. Insufficient input provided.

DWO093W
Required automation at risk. Member *tblName* not activated.

DWO094W
NetView at ASID *asidno* is using SSI *ssiname* - *procname*

DWO095A
NetView at ASID *asidno* forced OFF SSI *ssiname* - *procname*

DWO209I
Match not found for *direction search_parms*

DWO295I
Command changed by *procedure_name*

DWO296I
Time expired for message search. Press *keySpec* to continue.

DWO672I
Message *msgid* was issued at *date_time_and_source*

DWO990I
type global variable *variable_name* set by *command* via *invoked_LRC--->calling_LRC* to value --->*new_value*<---

DWO991I
type global variable *variable_name* set by *command* via *invoked_LRC* to value --->*new_value*<---

DWO992I
type global variable *variable_name* set by *command* to value --->*new_value*<---

DWO993I
List of *listType GVtype* global variables for group *GVgroup*

DWO994I
type global variable *variable_name* set to value --->*new_value*

EZL198I
PARAMETER INVALID FOR COMMAND *command*

FKX414I
UNABLE TO START WRITER ON SP *sp*, PACKET TRACE ALREADY ACTIVE

FKX475I
PACKET TRACE SAVED

FKX476I
PACKET TRACE DELETED

FKX477I
NO HEADERS FOUND IN FILE FKXPKTS

FKX478I
AN UNEXPECTED ERROR HAS OCCURRED USING DSIVSMX *action*

FKX479I
UNABLE TO *action* PACKET TRACE, AUTOTASK *taskname* IS NOT ACTIVE

FKX902I
REQUIRED PARAMETER *parmname* IS INVALID

FKX903I
UNABLE TO SUMMARIZE THE SESSION REPORT

FKX904I
PROTOCOL *protocol* IS NOT SUPPORTED FOR ANALYSIS

FKX905I
MULTIPLE PROTOCOL SELECTION ONLY SUPPORTED FOR ANALYSIS

FKX906I
CONNECTION NOT ACTIVE

FKX907I
UNABLE TO DETERMINE THE CONNECTION ID FOR THIS SESSION

IHS0056W
number1 of *number2* connections are already being used.

IHS0057I
Unable to set the socket option SO_KEEPALIVE, Error code is *errcode*.

IHS1123I
A RODM method failed while creating the *view_name* view. The view is too large and complex to open. Notify the system programmer responsible for RODM.

Changed Messages

The following messages changed in one or more of the following ways:

- The message text changed.
- The value of a message variable insert changed.
- The information provided in a multiline write-to-operator (MLWTO) message changed.

For specific details of how a message is being presented by the NetView program, refer to the online message help.

AAU059I
ERROR WHILE PROCESSING PIU TRACE BUFFER - SOME DATA MAY BE LOST

BNH495I
NUMBER OF NETVIEW APPLICATIONS: *numnvapp*

BNH543E
UNEXPECTED CPF ERROR CODE= *return_code* REASON= *reason_code*

BNH544E
THE PREFIX CHARACTERS ARE NOT VALID

BNH545E
PREFIX *'prefix_value'* IS A DUPLICATE

BNH546E
PREFIX *'prefix_value'* IS A SUBSET OF ANOTHER

BNH547E
PREFIX *'prefix_value'* IS A SUPERSET OF ANOTHER

BNH804I
'intfc_name' 'intfc_qual' INTERFACE INITIALIZATION IS *action*

BNH805I
'intfc_name' 'intfc_qual' INTERFACE HAS TERMINATED DUE TO *'reason'*

BNH813I
NUMBER OF DISTRIBUTED DVIPA TARGETS: *numtargs*

BNH847I
NUMBER OF DVIPA SYSPLEX DISTRIBUTORS: *numdist*

CNM209I
No log entries for this date/time range

CNM213I
Loss of data occurred for panel being viewed. Please issue new request.

CNM214I
All records have been filtered; no matching records found

CNM217I
NetView Program to Program Interface is inactive

CNM226I
NetView Program to Program Interface initialization is completed

CNM227I
NETView program to program interface is not initialized

CNM541I
NetView subsystem *ssi_name* is fully functional

CNM542I
Input parameters missing or invalid

CNM543I
Unable to find NetView subsystem communications vector table for *subsystem_name*.

CNM544I
Unable to obtain storage for NetView subsystem table (SST)

CNM545I
Unable to obtain storage for cross memory routines

CNM547I
Unable to obtain storage for IEFJSVEC and IEAVG700 calls

CNM548I
Unable to build NetView subsystem vector table (SSVT)

CNM549I
Subsystem console services failure during broadcast

CNM550I
Cross memory entry table initialization failure

CNM551I
NetView subsystem is already active

CNM555I
Invalid subsystem table (SST) found in subsystem communications vector table (SSCVT).

CNM558I
The NetView subsystem router for *ssi_name* is not active.

CNM559I
The NetView subsystem router for *ssi_name* is now active. NetView message automation has resumed.

CNM563I
NETVIEW SUBSYSTEM PROCEDURE IS NOT ACTIVE

CNM580I
NetView subsystem address space is terminating

CNM581I
NetView subsystem modify command input is invalid

CNM630I
The NetView subsystem interface is partially initialized for *ssi_name*.

CNM631I
NetView Program to Program Interface is active on *xxxx*.

CNM632I
NetView Program to Program Interface is being terminated

CNM741E
INTERNAL FAILURE ENCOUNTERED IN PROCESSING *cmdname* COMMAND

DSI145I
SESSION WITH *luname* TERMINATED

DSI269I
command FAILED. INSTALLATION ERROR

DSI366I
ADDITIONAL INFORMATION FOR MSG DSI416 *remotefilename*

DSI416I
PROCESSING FAILED FOR *'command"* COMMAND

DWO947E
Unable to obtain storage for NetView ppi trace table anchor block

IHS0008I
EVENT ADAPTER IS DUMPING FOR TASK *task*, COMPLETION CODE = X'*hhhhhh*'

IHS0009I
EVENT ADAPTER SDUMP FOR TASK *task* COMPLETED, RETURN CODE = X'*retcode*', REASON CODE = X'*rescode*'

IHS0017A
adapter: Incorrect FORMAT line token in FMT file *file*.

IHS0020A
adapter: Slot map variable $*variable* out of range. It must be between $1 and $*maxvar*

IHS0032E
Unable to make socket non-blocking.

IHS0035E
If you do not want to use portmapper you must specify an initial port for the event receiver.

IHS0041W
Unable to make socket non-blocking. Retry limit exceeded.

IHS0047E
Unable to set up socket queue.

IHS0050E
For Tivoli Customer Support use only: *servicedata*

IHS0055E
Unable to open *member* for initialization.

IHS0075I
Event/Automation service started. Subtask initialization is in progress for *task*

IHS0081E
Event Service encountered an internal error in task *taskname*. Unexpected results may occur as processing continues.

IHS0082E
adapter: Encountered a null Name in a Name/Value pair. Name/Value pair is ignored.

IHS0098I
adapter: Encountered a Value in a Name/Value pair that has a length that exceeds *maxvaluelength*. It is truncated.

IHS0099E
Improper variable reference *varname* on line *line*, index *index*.

IHS0117A
==>Generic class : *baseclass*, Bind class : *bindclass*.

IHS0119I
Event/automation service is terminating due to an operator request.

IHS0130E
EAS initialization file error ==>

IHS0144E
Event Receiver CFG file error ==>

IHS0159I
The calculated length (*calclength*) and user specified length (*userlength*) of a subvector do not match. Using calculated length.

IHS0165I
The OUTPUT is set to *destination*.

IHS0168I
task output file is *file*

IHS0169E
Failure opening or writing to OUTPUT file *outfile*. Standard output will be used.

IHS0187I
slotname=*slotvalue*;

IHS0200I
service: Number of ServerPorts (*number*) exceeds the maximum of *maximum*; ignoring extras.

IHS0201E
service: At least one ServerLocation must be specified.

IHS0318W
Unable to format alert to trap.

IHS0319W
Unable to send trap to OS/390 SNMP agent.

IHS0320E
Unable to connect to OS/390 SNMP agent.

Deleted Messages

BNH181E	BNH816I	BNH817I	BNH818I
BNH819I	BNH848I	BNH850I	
CNM556I	CNM557I	CNM1202I	
CNM1221I	CNM1223I	CNM1224I	CNM1226E
CNM1227E	CNM1228E	CNM1230E	CNM1231E
CNM1235I	CNM1236E	CNM1237E	CNM1238I
CNM1239E	CNM1242E	CNM1243E	CNM1244E
CNM1245E	CNM1246E	CNM1247E	CNM1248E
CNM1252E	CNM1258I	CNM1259E	CNM1273E
CNM1276E	CNM1277E	CNM1278I	CNM1279E
CNM1300E	CNM1301E	CNM1302E	CNM1303E
CNM1300E	CNM1431E	DWO041I	DWO042I
DWO043I	DWO140I	DWO141I	DWO146I
DWO147I	DWO148I	DWO149I	DWO160I
DWO399I	FLC150E	FLC151E	FLXTxxxx messages
IHS1030I	IHS1031I		

Samples

This section lists new and deleted samples for migration considerations.

- "New Samples" on page 167
- "Deleted Samples" on page 167

New Samples

CNMSDVEV	CNMSJM14	CNMSJ033	CNMSTACT
CNMSTLIF	CNMSTREP	DSIPROFP	FKXSI101
FKXSI201			

Deleted Samples

FLCS3270	FLCSDM6H	FLCSDM6T	FLCSHALH
FLCSHAT2	FLCSHAUT	FLCSIAUT	FLCSTALH
FLCSTAUT	FLCSIIP	FLCSITME	

Command Changes

This section lists new, changed, and deleted commands for migration considerations.

- "New Commands" on page 168
- "Changed Commands" on page 168
- "Deleted Commands" on page 169

New Commands

Table 66 on page 168 lists new commands to review during migration.

Table 66. List of New Commands

Command	Description
ACTVCTL	Provides data collection capabilities for the GDPS Active/Active Continuous Availability solution. You can also use this command to move the enterprise master NetView program from one controller to another.
ACTVLIFE	Displays information that is collected by the Multi-Site Workload Lifeline Advisor product.
ACTVREPL	Displays Replication Server for z/OS (Q replication) and InfoSphere® IMS Replication Server for z/OS (IMS replication) information.
ALL (CANZLOG)	Displays a specified collection of lines in BROWSE (CANZLOG).
BROWSE (CANZLOG)	Enables scanning of the network log, members of a partitioned data set, or members in storage.
CANZLOG	The consolidated audit, NetView, and z/OS log (Canzlog) command provides a means by which you can construct, use, and save filters that can be used with the NetView Canzlog browse facility.
CNMECZFS	Sets up (or resets) filters for Canzlog data to be delivered by subsequent use of the CZR pipe stage.
DISPMSG	Displays details about a message or related entity that is selected from a BROWSE display.
LINKMSG	Attempts to display the deleted message associated with a DOM (Delete Operator Message) that is currently being displayed.
WHAT	When browsing the Canzlog log, WHAT displays information for the current browse session.
WHENCE	Displays immediate message DWO672I with information about the selected message in the CANZLOG display.

Changed Commands

The following commands were changed:

- ALL (CANZLOG)
- BROWSE (CANZLOG): added Logging Options parameter to specify that the consolidated audit, NetView, and z/OS log (CANZLOG) can be browsed.
- DISPMSG
- FIND (BROWSE CANZLOG)
- LIST: added STATUS CANZLOG to display the numbers of messages collected.
- OVERRIDE: additional material added pertaining to system logging.

- RESTYLE: MCON keyword was removed, ARCHIVE and ACTACT keywords were added.

Deleted Commands

The following commands were deleted:

- GETTOPO IPDETAIL
- GETTOPO IPONLY
- GETTOPO TMEONLY
- GETTOPO TMERES

Enterprise Management Agent Changes

The following changes are available with the Tivoli NetView for z/OS Enterprise Management Agent for Version 6 Release 1:

- All queries and workspaces that are new or changed for the Version 6 Release 1 Tivoli NetView for z/OS Enterprise Management Agent include the qualifier (`V610`) in the query and workspace descriptions. The identification of the version, release, and modification level for queries and workspaces began with Version 5 Release 4. Queries and workspaces that were part of the product before V5R4 do not include a qualifier.
- Table 67 on page 169 shows the changes to existing workspaces.

Table 67. Workspace Changes

Workspaces	Changes
Distributed DVIPA Connection Routing	– The following integer attributes are added: - Source Port - Destination Port – The caption for the existing Source Port attribute, which is a string, is changed to Source Port String. This attribute is filtered out of the table view by default. – The caption for the existing Destination Port attribute, which is a string, is changed to Destination Port String. This attribute is filtered out of the table view by default.
Distributed DVIPA Server HealthDistributed DVIPA Server Health DetailsDistributed DVIPA Unhealthy ServersFiltered Distributed DVIPA Server HealthFiltered Distributed DVIPA Unhealthy Servers	– The following integer attribute is added: - DVIPA Port – The caption for the existing DVIPA Port attribute, which is a string, is changed to DVIPA Port String. This attribute is filtered out of the table view by default.
Distributed DVIPA TargetsDVIPA WorkloadsFiltered Distributed DVIPA Targets	– The following integer attributes are added: - DVIPA Port - Hot Standby Rank - Hot Standby Server Status - Hot Standby Server Type – The caption for the existing DVIPA Port attribute, which is a string, is changed to DVIPA Port String. This attribute is filtered out of the table view by default.

Table 67. Workspace Changes (continued)

Workspaces	Changes
DVIPA ConnectionsFiltered DVIPA Connections	– The following integer attributes are added: - DVIPA Port - Remote Port – The following long integer attributes are added: - Bytes Received - Bytes Sent - Bytes Sent or Received - Total Bytes - Total Bytes Received - Total Bytes Sent – The caption for the existing Bytes Received attribute, which is a string, is changed to Bytes Received String. This attribute is filtered out of the table view by default. – The caption for the existing Bytes Sent attribute, which is a string, is changed to Bytes Sent String. This attribute is filtered out of the table view by default. – The caption for the existing Bytes Sent or Received attribute, which is a string, is changed to Bytes Sent or Received String. This attribute is filtered out of the table view by default. – The caption for the existing DVIPA Port attribute, which is a string, is changed to DVIPA Port String. This attribute is filtered out of the table view by default. – The caption for the existing Remote Port attribute, which is a string, is changed to Remote Port String. This attribute is filtered out of the table view by default. – The caption for the existing Total Bytes attribute, which is a string, is changed to Total Bytes String. This attribute is filtered out of the table view by default. – The caption for the existing Total Bytes Received attribute, which is a string, is changed to Total Bytes Received String. This attribute is filtered out of the table view by default. – The caption for the existing Total Bytes Sent attribute, which is a string, is changed to Total Bytes Sent String. This attribute is filtered out of the table view by default.

Table 67. Workspace Changes (continued)

Workspaces	Changes
DVIPA Stack Summary	– The following integer attributes are added to the Local Distributed Targets Defined table view: - DVIPA Port - Hot Standby Rank - Hot Standby Server Status - Hot Standby Server Type – The following integer attributes are added to the Sysplex Distributors Defined table view: - Auto Switch Back - DVIPA Port - Health Switch – The caption for the existing DVIPA Port attribute, which is a string, is changed to DVIPA Port String in both the Local Distributed Targets Defined and Sysplex Distributors Defined table views. This attribute is filtered out of the table views by default.
DVIPA Sysplex DistributorsFiltered DVIPA Sysplex Distributors	– The following integer attributes are added: - Auto Switch Back - DVIPA Port - Health Switch – The following value for the existing Distribution Method attribute is added: - hotStandBy (6) – The caption for the existing DVIPA Port attribute, which is a string, is changed to DVIPA Port String. This attribute is filtered out of the table view by default.

Table 67. Workspace Changes (continued)

Workspaces	Changes
Inactive TCPIP Connection DataFiltered Inactive TCPIP Connection Data	– The following integer attributes are added: - Local Port - Remote Port – The following long integer attributes are added: - Total Bytes - Total Bytes Received - Total Bytes Sent – The caption for the existing Local Port attribute, which is a string, is changed to Local Port String. This attribute is filtered out of the table view by default. – The caption for the existing Remote Port attribute, which is a string, is changed to Remote Port String. This attribute is filtered out of the table view by default. – The caption for the existing Total Bytes attribute, which is a string, is changed to Total Bytes String. This attribute is filtered out of the table view by default. – The caption for the existing Total Bytes Received attribute, which is a string, is changed to Total Bytes Received String. This attribute is filtered out of the table view by default. – The caption for the existing Total Bytes Sent attribute, which is a string, is changed to Total Bytes Sent String. This attribute is filtered out of the table view by default.
NetView Applications	– The following integer attribute is added: - RMTCMD Port – The caption for the existing RMTCMD Port attribute, which is a string, is changed to RMTCMD Port String. This attribute is filtered out of the table view by default.
NetView Audit Log	– The following timestamp attribute is added: - Message Time – The existing Date and Time attributes are filtered out of the table view by default.

Table 67. Workspace Changes (continued)

Workspaces	Changes
NetView Log	– The caption for the existing Code attribute is changed to Routing Code. – The caption for the existing Date attribute is changed to First Record Date. – The caption for the existing Log attribute is changed to Network Log. – The caption for the existing MTYPE attribute is changed to HDRMTYPE. – The caption for the existing OperID attribute is changed to Operator ID. – The caption for the existing RecordCount attribute is changed to Record Count. – The caption for the existing SeqNum attribute is changed to Sequence Number. – The caption for the existing Time attribute is changed to Message Time.
OSA Channels and Ports	– The following integer attribute is added: - Channel Type

Table 67. Workspace Changes (continued)

Workspaces	Changes
TCPIP Connection DataFiltered TCPIP Connection Data	– The following integer attributes are added: - Local Port - Remote Port – The following long integer attributes are added: - Bytes Received - Bytes Sent - Bytes Sent or Received - Total Bytes - Total Bytes Received - Total Bytes Sent – The caption for the existing Bytes Received attribute, which is a string, is changed to Bytes Received String. This attribute is filtered out of the table view by default. – The caption for the existing Bytes Sent attribute, which is a string, is changed to Bytes Sent String. This attribute is filtered out of the table view by default. – The caption for the existing Bytes Sent or Received attribute, which is a string, is changed to Bytes Sent or Received String. This attribute is filtered out of the table view by default. – The caption for the existing Local Port attribute, which is a string, is changed to Local Port String. This attribute is filtered out of the table view by default. – The caption for the existing Remote Port attribute, which is a string, is changed to Remote Port String. This attribute is filtered out of the table view by default. – The caption for the existing Total Bytes attribute, which is a string, is changed to Total Bytes String. This attribute is filtered out of the table view by default. – The caption for the existing Total Bytes Received attribute, which is a string, is changed to Total Bytes Received String. This attribute is filtered out of the table view by default. – The caption for the existing Total Bytes Sent attribute, which is a string, is changed to Total Bytes Sent String. This attribute is filtered out of the table view by default.
Telnet Server Configuration and StatusFiltered Telnet Server Configuration and Status	– The following integer attribute is added: - Port – The caption for the existing Port attribute, which is a string, is changed to Port String. This attribute is filtered out of the table view by default.

- Sixteen new workspaces and fourteen new attribute groups are added for monitoring the status of workloads and other managed elements in the GDPS Active/Active Continuous Availability solution. For information, see documentation about the solution. Table 68 on page 175 shows the workspaces that are new and the associated attribute group or groups.

Table 68. New Workspaces	
Workspace	**Attribute Group**
DB2 Replication Details	DB2 Replication Apply ServerDB2 Replication Apply WorkloadDB2 Replication Capture ServerDB2 Replication Capture Workload
Filtered Replication Servers	Replication Servers
Filtered Workload Servers	Workload Servers
Filtered Workloads	Workloads
IMS Replication Details	IMS Replication Apply DetailsIMS Replication Capture Details
Load Balancer Groups	Load Balancer Groups
Load Balancer Workloads	Load Balancer Groups
Load Balancers	Load Balancers
Replication Servers	Replication Servers
Workload Lifeline Advisors	Workload Lifeline Advisors
Workload Lifeline Agents	Workload Lifeline Agents
Workload Server Details	Workload Servers
Workload Servers	Workload Servers
Workload Site Details	Workload Sites
Workload Sites	Workload Sites
Workloads	Workloads

- The following situations for the GDPS Active/Active Continuous Availability solution are new:
  - NAS_AA_DB2_QPctFull
  - NAS_AA_IMS_AppQPctFull_Crit
  - NAS_AA_IMS_AppQPctFull_Warn
  - NAS_AA_IMS_CapQPctFull_Crit
  - NAS_AA_IMS_CapQPctFull_Warn
  - NAS_AA_LB_Status
  - NAS_AA_RS_AppServerStatus
  - NAS_AA_RS_CapServerStatus
  - NAS_AA_RS_DB2WorkloadState
  - NAS_AA_RS_IMSWorkloadState
  - NAS_AA_RS_LatencyExceeded
  - NAS_AA_WLA_Agents
  - NAS_AA_WLA_LBs
  - NAS_AA_WLA_NetWeight
  - NAS_AA_Workload_Status
- The following policy for the GDPS Active/Active Continuous Availability solution is new:
  - NAP_AA_RS_LatencyReset

- The following take action commands for the GDPS Active/Active Continuous Availability solution are new:
  - View Data Collection Statistics for Active/Active Sites
  - View DB2 Replication Details
  - View IMS Replication Details
  - View Load Balancer Groups
  - View Load Balancer Workloads
  - View Load Balancers
  - View Replication Servers
  - View Workload Lifeline Advisors
  - View Workload Lifeline Agents
  - View Workload Servers
  - View Workload Sites
  - View Workloads

Appendix C. Changes from Tivoli NetView for z/OS V6R1 to Tivoli NetView for z/OS V6R2

For a summary of changes for the NetView V6R2 release, see "New and Changed Functions in the NetView V6R2 Program" on page 177.

See the following sections for new, changed, and deleted command lists, messages, samples, and commands from the NetView V6R1 product:

- "Command Lists" on page 180
- "Messages" on page 180
- "Samples" on page 185
- "Command Changes" on page 185

Note: The lists are listed alphabetically from left to right.

For changes to the Tivoli NetView for z/OS Enterprise Management Agent; see "Enterprise Management Agent Changes" on page 186.

New and Changed Functions in the NetView V6R2 Program

Whether you have a small installation or you are managing a large, distributed enterprise, the NetView program provides efficient systems and network management capability on any platform. The new and changed functions in this release are described in the following topics:

- "Automation" on page 177
- "IP Management" on page 177
- "Sysplex and System Management" on page 178
- "GDPS Active/Active Continuous Availability Solution" on page 178
- "Additional Enhancements" on page 179
- "Library Changes" on page 179

For comparison information about prior NetView release functions, refer to the IBM Tivoli NetView for z/OS website.

Automation

Table 69. Automation Enhancements

Function	Description	Additional information
Duplicate automation prevention	Message automation is not duplicated when EMCS consoles receive messages because of route codes.	"Restrict Operator Access to the MVS VARY Command" in the dqamst.dita#dqamst

IP Management

Table 70. IP Management Enhancements

Function	Description	Additional information
NETVIP command	You can access IP management functions from the main NetView menu panel or by using the NETVIP command.	"Using 3270 Commands" in cnmimst.dita#cnmimst

Table 70. IP Management Enhancements (continued)		
Function	**Description**	**Additional information**
Multiple packet trace instances	You can run and control multiple packet trace instances using the Packet Trace Control panel.	"IP Packet Tracing" in cnmimst.dita#cnmimst
Packet trace analysis panel navigation	In the packet trace analysis panels, you can use enhanced scrolling options or filter the session list.	"Analyzing and Saving Packet Traces" in cnmimst.dita#cnmimst
Packet trace data in CTRACE format	Packet trace data that is captured by the IPTRACE function can be written in the CTRACE format so that it can be used as input to Interactive Problem Control System (IPCS).	"Viewing IP Packet Trace Data" and "Issuing Commands for Sessions" in cnmimst.dita#cnmimst

Sysplex and System Management

Table 71. Sysplex and System Management Enhancements		
Function	**Description**	**Additional information**
IBM System z Advanced Workload Analysis Reporter (IBM zAware) integration	New samples enable NetView integration with IBM zAware to detect unusual or unexpected events or activity.	"IBM System z Advanced Workload Analysis Reporter" in inamst.dita#inamst
Preinitialization messages in the Canzlog log	Messages that are written to the system log before the NetView subsystem is initialized are now available in the Canzlog log.	"PROG*xx*" in inqmst.dita#inqmst
Remote Canzlog browsing	The BROWSE command is enhanced to support browsing Canzlog data from a remote NetView instance.	"Displaying Canzlog Data" in the dqqmst.dita#dqqmst and "BROWSE (NCCF)" in the dqc1mst.dita#dqc1mst

GDPS Active/Active Continuous Availability Solution

Table 72. GDPS Active/Active Continuous Availability solution		
Function	**Description**	**Additional information**
Additional support for GDPS Active/Active Continuous Availability solution	• Active/Query workload support • Multiple consistency group support for Q replication • VSAM replication support	The Overview in *IBM Tivoli NetView for z/OS Installation: Configuring the GDPS Active/Active Continuous Availability Solution*
Additional support in the IBM Tivoli NetView for z/OS Enterprise Management Agent for GDPS Active/Active Continuous Availability solution	• Active/Query workload support • Expanded enterprise master support • Multiple consistency group support for Q replication • QREP workloads with multiple consistency groups support • VSAM replication support	"Enterprise Management Agent Changes" in cnmemst.dita#cnmemst

Additional Enhancements

Table 73. Additional Enhancements

Function	Description	Additional information
DSIOPF	The DSIOPF member has a new structure that facilitates changing operator definitions.	"DSIOPF" on page 85 in the inmmst.dita#inmmst
NetView management console sign on	The NetView management console sign on window provides a list of previously used topology servers from which the user can select.	"Using the Topology Console Sign On Window" in the leamst.dita#leamst
REXX	REXX command environments and REXX function package names can be defined by using the following CNMSTYLE statements: • REXX.CMDENV.*name* • REXX.FUNCPKGLIST.LCL.*name* • REXX.FUNCPKGLIST.SYS.*name* • REXX.FUNCPKGLIST.USR.*name*	"REXX.CMDENV.*name*", "REXX.FUNCPKGLIST.LCL.*name*", "REXX.FUNCPKGLIST.SYS.*name*", and "REXX.FUNCPKGLIST.USR.*name*" in the dpxmst.dita#dpxmst
Serviceability	The NVINFO command can be used to collect data for the active NetView session. You can also use this command to request a dump of the NetView address spaces.	"NVINFO (NCCF)" in the dqc1mst.dita#dqc1mst
Web Services Gateway	The Web Services Gateway function is updated to use Application-Transparent Transport Layer Security (AT-TLS) for secure communication, instead of using z/OS System SSL directly.	"Controlling Access to Web Services Gateway" in the dzlmst.dita#dzlmst

Library Changes

Table 74. Library Changes

Publication	Description	Additional information
IBM Tivoli NetView for z/OS Installation: Configuring Additional Components	A new section provides a set of quick start procedures for enabling basic IP management capabilities.	"Getting Started with IP Management" in "Configuring IP Management"
IBM Tivoli NetView for z/OS Installation: Configuring the GDPS Active/Active Continuous Availability Solution	Configuration scenarios were added that show the use of the PARMGEN tool.	*Scenario 2 (using PARMGEN): Remote monitoring servers running in z/OS monoplexes"*
IBM Tivoli NetView for z/OS Installation: Configuring the NetView Enterprise Management Agent	Configuration scenarios were added that show the use of the PARMGEN tool.	*Configuring the NetView agent using the PARMGEN method*
BookManager books	BookManager books are not available for this NetView for z/OS release.	

Command Lists

This section lists new and deleted command lists for the NetView V6R2 program:

- "New Command Lists" on page 180
- "Deleted Command Lists" on page 180

Do not issue these command lists from a NetView command line. Most of the NetView command lists that are included with the NetView program are used internally by the NetView program and might have unpredictable results when issued from a NetView command line.

New Command Lists

AQNEEVNT	CNMECZQG	CNMECZRP	CNMECZTR
CNMECZWY	CNMENVIP	CNME8270	CNME8271
CNME8272	CNME9003	CNME9004	FKXETRM2
FKXE2C01			

Deleted Command Lists

CNMENVHB	FKXE100A	FKXE1000	FKXE110A
FKXE1100	FKXE120A	FKXE1200	FKXE130A
FKXE1300	FKXE140A	FKXE1400	FKXE1410
FKXE1420	FKXE150A	FKXE1500	

Messages

This section lists new and changed messages for the NetView V6R2 program:

- "New Messages" on page 180
- "Changed Messages" on page 182

New Messages

AQN043I
NO *subtower_name server_type* SOCKET PATH INFORMATION FORWARDED TO CONTROLLER, REASON '*reason*'

AQN044I
ATTRIBUTE *attribute_name* IS MISSING FOR *data_source* REPLICATION EVENT *class_name*

AQN045I
INVALID VALUE RECEIVED FOR *data_source* REPLICATION EVENT *class_name*, ATTRIBUTE *attribute_name*

AQN046I
REPLICATION EVENT *class_name* IS NOT RECOGNIZED

AQN047I
data_source REPLICATION EVENT *class_name*, FORWARDED. RETURN CODE: *return_code*

AQN048I
data_source REPLICATION EVENT VERSION *replication_version* DOES NOT MATCH NETVIEW EVENT VERSION *netview_version*

AQN049I
DISPLAY OF REPLICATION WORKLOADS

AQN050I
DISPLAY OF Q REPLICATION CAPTURE SERVERS DATA

AQN051I
DISPLAY OF Q REPLICATION APPLY SERVERS DATA

AQN052I
ENT.SYN.*prisec.site.domain* FOR DOMAIN *domain_id* SPECIFIES SNA

AQN053I
command FAILED. Reason: *reason*. Reason Code: *reason_code*

AQN054I
REQUIRED ENT.ALT.CONTROLLERS STATEMENT MISSING

BNH825I
THE AT-TLS SECURITY TYPE IS X'*security_type*'.

BNH869W
THE CONNECTION TO THE NETVIEW WEB SERVICES SERVER '*srvrname*' WAS REJECTED BECAUSE AT-TLS IS NOT CONFIGURED OR ACTIVE FOR THIS SERVER.

CNM618A
NetView subsystem *ssi_name* has not been initialized.

CNM743I
Some messages that were issued before the NetView subsystem was initialized were not logged.

CNM744E
The ALESERV token was not deleted: Return Code = *return_code* Reason Code = *reason_code*

CNM745E
The DSPSERV token was not deleted: Return Code = *return_code* Reason Code = *reason_code*

CNM746I
The *user_module* module was not deleted from the SYSLOG exit

CNM747I
The required number of plots in the CANZLOG data space are not available. Some messages might be missing.

CNM748I
The *user_module* module was deleted from the SYSLOG exit

CNM749A
Incompatible NetView program or subsystem is defined for subsystem *ssi_name*

CNM749A
Incompatible NetView program or subsystem is defined for subsystem *ssi_name*

CNM949I
obj IS TOO LONG

DWO038I
function IS NOT ALLOWED IN THE *product* ENVIRONMENT

DWO096E
part is not installed with *attr_name* attribute

FKX408I
TRACE INSTANCE STARTED FOR STACK *stack* BY OPERATOR *operid* ON TASK *task* AT SP *sp*

FKX409I
TRACE INSTANCE ENDED FOR STACK *stack* BY OPERATOR *operid* ON TASK *task* AT SP *sp*

FKX415I
TRACE INSTANCE SUSPENDED FOR STACK *stack* BY OPERATOR *operid* ON TASK *task* AT SP *sp*

FKX416I
TRACE INSTANCE SUSPENDED FOR STACK *stack* BY OPERATOR *operid* ON TASK *task* AT SP *sp*

FKX417I
TRACE INSTANCE action FAILED FOR STACK *stack* ON SP *sp*

FKX418I
TRACE INSTANCE STOPPED ON TASK *task* FOR STACK *stack*

FKX419I
TRACE INSTANCE ENDED ON TASK *task* FOR STACK *stack*

FKX463I
OPID REQUIRED FOR STOP OR STOPALL OF TRACE INSTANCE

FKX464I
OPID *task* DOES NOT HAVE AN ACTIVE TRACE INSTANCE

FKX465I
NO OPIDS DEFINED FOR TRACE INSTANCES

FKX466I
NO AVAILABLE OPIDS FOR TRACE INSTANCES

FKX467I
OPID *task* ALREADY HAS AN ACTIVE TRACE INSTANCE

Changed Messages

The following messages changed in one or more of the following ways:

- The message text changed.
- The value of a message variable insert changed.
- The information provided in a multiline write-to-operator (MLWTO) message changed.

For specific details of how a message is being presented by the NetView program, refer to the online message help.

AQN001I
NO SOCKET PATH NAMES FOUND FOR DATA SOURCE *subtower_name* DOMAIN *domain*

AQN002I
DATA COLLECTION FAILED FOR DATA SOURCE *subtower_name*, SOCKET PATH NAME *path*

AQN006I
DUPLICATE *subtower_name*, SOCKET PATH NAME *path* IGNORED

AQN007I
DISPLAY ACTIVE/ACTIVE DATA COLLECTION INFORMATION

AQN008I
REPLICATION SERVER SITUATION OR POLICY NAME IS *name*

AQN009I
DATA COLLECTION FOR *subtower_name* RESTARTED

AQN0010I
DATA COLLECTION FOR *subtower_name* ALREADY STARTED

AQN0011I
DATA COLLECTION FOR *subtower_name* ALREADY STOPPED

AQN012I
cmd COMMAND NOT PROCESSED. CURRENT VALUE *interval* FOR *subtower_name* MATCHES CHANGE VALUE.

AQN013I
DATA COLLECTION INTERVAL FOR *subtower_name* SET TO *interval*

AQN016A
Reply Yes if Tivoli Enterprise Monitoring Server is inactive on system system. Otherwise, reply No.

AQN019E
CONNECTION FAILURE TO *server* ON SOCKET PATH *path*. REPORTING MODULE=module_name. RC: *return_code* REASON: *reason*

AQN023I
DISPLAY OF LOAD BALANCERS

AQN027I
DISPLAY OF *role* WORKLOADS FOR WORKLOAD NAME *workload_name*

AQN028I
SOCKET PATH NAME *path* NOT CONFIGURED FOR *subtower_name*

AQN029I
UNEXPECTED VALUE *value* RECEIVED FOR *fieldname* FOR DATA SOURCE *subtower_name*

AQN030I
DISPLAY OF REPLICATION SERVER WORKLOADS *workload_name* FOR DATA SOURCE *type*

AQN031I
DISPLAY OF *type* CAPTURE WORKLOAD DETAILS FOR WORKLOAD *workload_name*

AQN032I
DISPLAY OF *type* APPLY WORKLOAD DETAILS FOR WORKLOAD *workload_name*

AQN033I
DISPLAY OF Q REPLICATION DATA FOR SEND QUEUE *send_queue* WORKLOAD *workload_name*

AQN034I
DISPLAY OF Q REPLICATION DATA FOR RECEIVE QUEUE *receive_queue* WORKLOAD *workload_name*

AQN035I
DISPLAY OF Q REPLICATION CAPTURE SERVER *server_job_name* DATA ON SITE *server_site*

AQN036I
DISPLAY OF Q REPLICATION APPLY SERVER *server_job_name* DATA ON SITE *server_site*

AQN039I
TOWER ACTIVEACTIVE.REPLICATION.*subtwr* NOT ENABLED FOR DOMAIN *domain*

AQN040I
COMMON GLOBAL VARIABLE *variable* IS NOT DEFINED FOR DOMAIN *domain*

AQN041I
SOCKET PATH DEFINITION *statement* IS NOT SEQUENTIAL

AQN042I
NO *subtower_name server_type* SOCKET PATH INFORMATION FORWARDED TO CONTROLLER, REASON '*reason*'

AQN042I
MAXIMUM NUMBER OF *subtower_name server_type* SOCKET PATH DEFINITIONS EXCEEDED

BNH229I
option value mm/dd/yy hh:mm:ss updateid

BNH498I
NUMBER OF INTERFACES: *numintf*

BNH598I
NUMBER OF HIPERSOCKETS INTERFACES: *numhiper*

BNH608I
'*requestname*' REQUEST COMPLETED SUCCESSFULLY

BNH812
command ISSUED FOR *task_name* COMPLETED WITH STATUS *code*

BNH863I
DISPLAY OF NETVIEW WEB SERVICES INFORMATION

BNH881I
DATA COLLECTION FAILED FOR SUBTOWER *subtower_name*, REASON '*reason*'

BNH898E
NETVIEW WEB SERVICES *srvr_name* INITIALIZATION FAILED DUE TO *reason_text rc*

BNH911I
request : NO DATA FOUND FOR '*subject*'

CNM543I
UNABLE TO FIND NETVIEW SUBSYSTEM COMMUNICATIONS TABLE FOR *ssi_name*

CNM598W
SUBSYSTEM IS NOT ACTIVE FOR *ssi_name*

CNM742I
NO CANZLOG ARCHIVE BROWSE DATA SPACES CREATED

DSI002I (changed for IACz, no visible changes)
INVALID COMMAND: '*command*'

DSI031I
SPECIFIED NAME '*name*' INVALID

DSI823I
member HAS A MISSING OR INCORRECT SIGNATURE

DWO090A
action error for *component*. Maintenance required.

DWO155I
NETVIEW DOES NOT HAVE A JES JOBID

DWO384I
TIME-OUT OCCURRED. '*command*' FOR '*target*' IS TERMINATED.

EZL563E
ERROR ACCESSING *domain1* OUTBOUND GATEWAY TO DOMAIN *domain2* - RC= *rc*

EZL917E
ERROR OCCURRED. BROWSE LOG FOR MORE INFORMATION

FKX400I
tracetype SCHEDULED FOR SP *sp* BY OPERATOR *operid*

FKX401I
tracetype - DELAY TRACE SCHEDULED FOR SP *sp* BY *operid*

FKX402I
tracetype action START FOR SP *sp* FAILED - MESSAGE *msgid* RECEIVED.

FKX403I
tracetype STOPPED FOR SP *sp* BY OPERATOR *operid*

FKX405I
TARGET DOMAIN/PROC FOR SP *sp* IS NOT VALID

FKX406I
tracetype - DELAYED TRACE FAILED FOR SP *sp* BY *operid*

FKX407I
DELAYED *tracetype* BLOCKED BY SECURITY FOR SP *sp* BY *operid*

FKX410I
UNABLE TO START *tracetype* ON SP *sp* - TRACE ALREADY ACTIVE

FKX411I
UNABLE TO STOP *tracetype* ON SP *sp* - TRACE NOT ACTIVE

FKX412I
START *tracetype* ON SP *sp* FAILED - TRACE ALREADY SCHEDULED

FKX413I
THE PROCNAME *proc* IS NOT DEFINED ON SP *sp*

Samples

"New Samples" on page 185 lists new samples for the NetView V6R2 program:

New Samples

CNMSCMSG	CNMSFMSG	CNMSSCFG	CNMSSNIT
CNMSSVNT	CNMSS010	CNMSTMSG	CNMS8050
CNMS8051	CNMS8052	DSICCDNV	DSIOPFAU
DSIOPFEX	DSIOPFIX	DSIOPFST	

Command Changes

This section lists new and changed commands for the NetView V6R2 program:

- "New Commands" on page 185
- "Changed Commands" on page 185

New Commands

Table 75 on page 185 lists new commands to review during migration.

Table 75. List of New Commands

Command	Description
NETVIP	Displays menu of NetView IP management functions
NVINFO	Enables you to collect data for the active NetView session

Changed Commands

The following commands have been changed:

- ACTVCTL
- ACTVLIFE
- ACTVREPL
- ALL (CANZLOG)
- BROWSE (NCCF)
- CANZLOG
- CNMECZFS
- DEFAULTS (NCCF)
- DISPMSG
- DSITSTAT (REXX)
- DVIPCONN
- FIND (CANZLOG)
- FMTPACKT
- LIST (NCCF)
- MVS
- OVERRIDE
- PKTS

- PKTTRACE
- SECMIGR
- SOACTL

Enterprise Management Agent Changes

The following changes are available with the Tivoli NetView for z/OS Enterprise Management Agent for Version 6 Release 2:

- All queries and workspaces that are new or changed for Version 6 Release 2 include the qualifier (V620) in the query and workspace descriptions. The identification of the version, release, and modification level for queries and workspaces began with Version 5 Release 4. Queries and workspaces that were part of the product before V5R4 do not include a qualifier.
- Table 76 on page 187 shows the changes to existing workspaces that are used for monitoring the status of workloads and other managed elements in the GDPS Active/Active Continuous Availability solution.

Table 76. Workspace Changes

Workspaces	Changes
DB2 Replication Details	– The Queue Percent Full view is changed from a circular gauge to a bar chart. – The following attributes are added to the DB2 Replication Apply Workload attribute group: - Apply System ID (filtered out of the table view by default) - Available Transactions - Consistency Group Name - Consistency Group Synchronization State - Maximum Available Commit - Minimum Available Commit - Next Apply Up To Time - Oldest Commit LSN - Oldest Commit Sequence - Queue Manager Name – The following attributes are added to the DB2 Replication Capture Server attribute group: - Current Log Sequence - Restart Log Sequence – The following attributes are added to the DB2 Replication Capture Workload attribute group: - Capture System ID (filtered out of the table view by default) - Consistency Group Name - Current Log Sequence - Queue Manager Name - Restart Log Sequence – The caption for the existing Oldest Commit LSN attribute in the DB2 Replication Apply Workload attribute group is changed to Oldest Commit LSN 10 Byte Maximum and is filtered out of the table view by default. This attribute displays a log sequence number with a maximum length of 10 bytes, for example, 0000:0000:0000:89B3:6919. – The caption for the existing Oldest Commit Sequence attribute in the DB2 Replication Apply Workload attribute group is changed to Oldest Commit Sequence 10 Byte Maximum and is filtered out of the table view by default. This attribute displays a log sequence number with a maximum length of 10 bytes, for example, 0000:0000:0000:89B3:6919. – The captions for the existing Current Log Sequence attributes in the DB2 Replication Capture Server attribute group and the DB2 Replication Capture Workload attribute group are changed to Current Log Sequence 10 Byte Maximum and are filtered out of the table views by default. These attributes display a log sequence number with a maximum length of 10 bytes, for example, 0000:0000:0000:89B3:6919. – The captions for the existing Restart Log Sequence attributes in the DB2 Replication Capture Server attribute group and the DB2 Replication Capture Workload attribute group are changed to Restart Log Sequence 10 Byte Maximum and are filtered out of the table views by default. These attributes display a log sequence number with a maximum length of 10 bytes, for example,

Table 76. Workspace Changes (continued)

Workspaces	Changes
Load Balancers	– The following value for the existing Role attribute is added: - INTERMEDIARY (4) - The value for the existing Type attribute is changed from SYSPLEX DISTRIBUTOR (1) to INTERNAL (1).
– Filtered Replication Servers – Replication Servers	– The Replication Servers workspace is no longer the default workspace for the Replication Servers item in the Navigator view. To display this workspace, select and right-click **Replication Servers**, click **Workspace**, and then click **Replication Servers**. – The following attributes are added to the Replication Servers attribute group: - Consistency Group Name - Defined Consistency Groups – The following value for the existing Workload Type attribute is added: - VSAM – The caption for the existing IMS Source System Identifier attribute is changed to Source System Identifier. – The caption for the existing IMS Target URL attribute is changed to Target URL. – The Average Latency bar chart is changed to graph the average latency for each consistency group rather than for each workload. – The VSAM Replication Details link is added. It is enabled for rows where the value of the Workload Type attribute is equal to VSAM. This link targets the new VSAM Replication Details workspace. – The DB2 Replication Details for Workload link is added. It is enabled for rows where the value of the Workload Type attribute is equal to DB2. This link targets the new DB2 Replication Details for Workload workspace. – The existing DB2 Replication Details link is changed to filter the Queue Percent Full bar chart, the Q Capture: Send Queue Details table, and the Q Apply: Receive Queue Details views using the Consistency Group Name attribute rather than the Workload Name attribute. It is enabled for rows where the value of the Workload Type attribute is equal to DB2 and the value of the Consistency Group Name is not equal to N/A. This link targets the existing DB2 Replication Details workspace.

Table 76. Workspace Changes (continued)	
Workspaces	**Changes**
– Filtered Workloads – Workloads	– The following attributes are added to the Workloads attribute group: - Active/Query Workloads - Active/Standby Workload Correlator (filtered out of the table view by default) - Active/Standby Workload Name - Routing Failure State - Workload Latency State - Workload Routing Type – The following value for the existing Role attribute is added: - ACTIVE/QUERY (2) – The name of the existing Replication Servers link is changed to Replication Servers for Active/Standby Workload. This link is enabled for rows where the value of the Role attribute is equal to ACTIVE/STANDBY. This link targets the existing Filtered Replication Servers workspace. – The Replication Servers for Active/Query Workload link is added. It is enabled for rows where the value of the Role attribute is equal to ACTIVE/QUERY. This link targets the existing Filtered Replication Servers workspace. – The Active/Query Workloads link is added. It is enabled for rows where the value of the Role attribute is equal to ACTIVE/STANDBY and the value of the Active/Query Workloads attribute is greater than 0. This link targets the new Active/Query Workloads workspace.
– Workload Site Details – Workload Sites	– The following attributes are added to the Workload Sites attribute group: - Preferred Site - Role – The Workload Routing Weight view is changed from a bar chart to a plot chart. – The following value for the existing Workload Routing State attribute is added: - DEACTIVATED (3)

- Four new workspaces and three new attribute groups are added for monitoring the status of workloads and other managed elements in the GDPS Active/Active Continuous Availability solution. Table 77 on page 189 shows the workspaces that are new and the associated attribute group or groups.

Table 77. New Workspaces	
Workspace	**Attribute Group**
Active/Query Workloads	Workloads (existing attribute group with new attributes)

Table 77. New Workspaces (continued)	
Workspace	**Attribute Group**
DB2 Replication Details for Workload	– DB2 Replication Apply Server (existing attribute group) – DB2 Replication Apply Workload (existing attribute group with new attributes) – DB2 Replication Capture Server (existing attribute group) – DB2 Replication Capture Workload (existing attribute group with a new attribute)
Replication Workloads	Replication Workloads
VSAM Replication Details	– VSAM Replication Apply Details – VSAM Replication Capture Details

- The following situations for the GDPS Active/Active Continuous Availability solution are new:
  - NAS_AA_RS_VSAMWorkloadState
  - NAS_AA_RW_AggregationStatus
  - NAS_AA_RW_ConsistencyGroups
  - NAS_AA_RW_WorkloadLatency
  - NAS_AA_VSAM_AppQPctFull_Crit
  - NAS_AA_VSAM_AppQPctFull_Warn
  - NAS_AA_VSAM_CapQPctFull_Crit
  - NAS_AA_VSAM_CapQPctFull_Warn
- The following situation is new and is associated with the NetView Health node in the Navigator:
  - NAS_NVApp_Enterprise_Master
- Table 78 on page 190 shows the changes to existing take action commands for the GDPS Active/Active Continuous Availability solution.

Table 78. Take Action Command Changes	
Take Action Command	**Changes**
View DB2 Replication Details	This take action command issues the ACTVREPL command. The following arguments that are specified on the command are changed: – WORKLOAD=ALL is changed to WORKLOAD=* – APPSITE, APPSYS, CAPSITE, CAPSYS are removed and are no longer valid arguments The updated take action command is NA: ACTVREPL WORKLOAD=* TYPE=DB2 VIEW=DETAILS.
View IMS Replication Details	This take action command issues the ACTVREPL command. The following arguments that are specified on the command are changed: – WORKLOAD=ALL is changed to WORKLOAD=* – APPSITE, APPSYS, CAPSITE, and CAPSYS are removed and are no longer valid arguments The updated take action command is NA: ACTVREPL WORKLOAD=* TYPE=IMS VIEW=DETAILS.

Table 78. Take Action Command Changes (continued)	
Take Action Command	**Changes**
View Replication Servers	This take action command issues the ACTVREPL command. The following arguments that are specified on the command are changed: – WORKLOAD=ALL is changed to WORKLOAD=* – TYPE=ALL is changed to TYPE=* – APPSITE, APPSYS, CAPSITE, and CAPSYS are removed and are no longer valid arguments The updated take action command is NA: ACTVREPL WORKLOAD=* TYPE=* VIEW=COMMON.

- The following take action commands for the GDPS Active/Active Continuous Availability solution are new:

Table 79. New Take Action Commands	
Take Action Name	**Take Action Command**
View Replication Workloads	NA: ACTVREPL WORKLOAD=* VIEW=SUMMARY
View VSAM Replication Details	NA: ACTVREPL WORKLOAD=* TYPE=VSAM VIEW=DETAILS

Appendix D. Changes from Tivoli NetView for z/OS V6R2 to Tivoli NetView for z/OS Version V6R2M1

See the following sections for new, changed, and deleted command lists, messages, samples, and commands from the NetView V6R2 product:

- “Command Lists” on page 194
- “Messages” on page 194
- “Samples” on page 198
- “Command Changes” on page 198

Note: The lists are listed alphabetically from left to right.

For changes to the Tivoli NetView for z/OS Enterprise Management Agent; see “Enterprise Management Agent Changes” on page 200.

Library Changes

Table 80. Library Changes

Publication	Description	Additional information
NetView for z/OS *Installation: Configuring the GDPS Active/ Active Continuous Availability Solution*	This publication has been removed from the NetView library. Additionally, information about NetView support for the GDPS Active/Active Continuous Availability solution has been removed from the library.	See *Configuring and Using the GDPS Active/Active Continuous Availability Solution* for information about the IBM Tivoli NetView Monitoring for GDPS offering and migration information.
IBM Tivoli NetView for z/OS Installation: Configuring the NetView Enterprise Management Agent	"Appendix E. Configuring the NetView agent using the configuration tool" has been removed.	
IBM Tivoli NetView for z/OS Installation: Migration Guide	Information on migrating from NetView V5R1 and NetView V5R2 has been removed from the library.	For information about migrating from the NetView V5R1 or NetView V5R2 release, see the *Installation: Migration Guide*, GC27-2854-02, available in the NetView for z/OS V6R2 library.

Table 80. Library Changes (continued)		
Publication	**Description**	**Additional information**
General library changes	Information for the following outdated functions has been removed: • 4700 support facility (TARA) • Common Event Infrastructure Service • MVS Command Management • Visual BLDVIEWS (VBV)	For information on replacement functions and which commands, command lists, messages, and samples were deleted because the function were removed, see the following sections: • "Removed Functions" on page 4 • Appendix D, "Changes from Tivoli NetView for z/OS V6R2 to Tivoli NetView for z/OS Version V6R2M1," on page 193

Command Lists

This section lists deleted command lists for the NetView V6R2M1 program:

- "Deleted Command Lists" on page 194

Do not issue these command lists from a NetView command line. Most of the NetView command lists that are included with the NetView program are used internally by the NetView program and might have unpredictable results when issued from a NetView command line.

Deleted Command Lists

AQNEEVNT	AQNE1000	AQNE1001	AQNE1002
AQNE1003	AQNE1004	AQNE1005	

Messages

This section lists new and changed messages for the NetView V6R2M1 program:

- "New Messages" on page 194
- "Changed Messages" on page 195
- "Deleted Messages" on page 197

New Messages

AQN030I
DISPLAY OF REPLICATION SERVER WORKLOADS *workload_name* FOR DATA SOURCE *type*

AQN033I
DISPLAY OF Q REPLICATION DATA FOR SEND QUEUE *send_queue* WORKLOAD *workload_name*

AQN035I
DISPLAY OF Q REPLICATION CAPTURE SERVER *server_job_name* DATA ON SITE *server_site*

AQN049I
DISPLAY OF REPLICATION WORKLOADS

AQN050I
DISPLAY OF Q REPLICATION CAPTURE SERVERS DATA

AQN055D
tower_name tower not enabled. Required software not installed.

AQN056I
DISPLAY OF Linux on z Systems WORKLOAD SERVERS

AQN057I
DISPLAY OF SNA WORKLOAD SERVERS

BNH191E
Policy autotask is different from AON autoTask. This configuration is not supported.

BNH917I
The following *gtype* global variables are too long for the requested function:

BNH918I
Data has been truncated: *qual1 qual2*

BNH919I
command : STATUS INFORMATION

BNH920I
count COMMAND STATISTICS RECORDS DISPLAYED

CNM102I
CANZLOG PRINT FROM DOMAIN *domain* AT *date&time* FILTER: *filterspec* PREFIXES: *prefixes* DETAIL FOR MVS MESSAGE: *detail_id_list* DETAIL FOR NETVIEW MESSAGE: *detail_id_list*

CNM162E
mprocess BUFFERING IS CRITICAL. MESSAGES LOST IN APPROXIMATELY *dtime* SECONDS.

CNM163I
DATA BUFFERING STORAGE HAS INCREASED TO *newsize* MEGABYTES.

CNM164A
mprocess FELL BEHIND. *Ltype* MESSAGE LOSS. FROM *timestampOne* TO *timestampTwo*.

CNM165I
DATA BUFFERING USAGE IS AT MAXIMUM.

CNM166I
number MESSAGES PRINTED SUCCESSFULLY TO *datasetname* WITH FILTER *filterspec*.

DWO097E
Configuration not supported *reason_text*

DWO098W
UNAUTHORIZED CLIENT *username* SENT DATA TO *service*, ID = '*symbol*'

DWO294I
NO CLIENTS IN CONFIGURATION. *service* IS DISABLED.

Changed Messages

The following messages changed in one or more of the following ways:

- The message text or case changed.
- The value of a message variable insert changed.
- The information provided in a multiline write-to-operator (MLWTO) message changed.

For specific details of how a message is being presented by the NetView program, refer to the online message help.

AQN020I
DISPLAY OF LIFELINE ADVISORS

AQN021I
DISPLAY OF LIFELINE AGENTS

AQN022I
DISPLAY OF LOAD BALANCER GROUPS FOR LOAD BALANCER AT IP ADDRESS *ipaddress*

AQN023I
DISPLAY OF LOAD BALANCERS

AQN025I
DISPLAY OF z/OS WORKLOAD SERVERS

AQN026I
DISPLAY OF WORKLOAD SITES FOR WORKLOAD *workload_name*

BNH039I
globalvarname globalvarvalue

BNH066I
taskid o_netview o_opid VxRyMz N/A *transport*

BNH069I
netid.domainid version transport

BNH495I
NUMBER OF NETVIEW APPLICATIONS: *numnvapp*

BNH538I
systemid jobname jobnumber addspace_id wtoseq msg_type nvdel_id msg_text

BNH594I
PLEXNAME GROUP MEMBER SYSTEM STATUS ROLE RANK DUR FLGS VER TIMESTMP TOKEN

BNH597I
NUMBER OF OSA PORTS: *numosa*

BNH879I
NETVIEW ENTERPRISE MANAGEMENT AGENT *subnode* SUBNODE IS ACTIVE

BNH880I
NETVIEW ENTERPRISE MANAGEMENT AGENT *subnode* SUBNODE IS INACTIVE

BNJ906I
CMD FACILITY ROUTE CMD DETECTED BY HARDWARE MONITOR - COMMAND WAS REJECTED

BNJ950I
DATA SERVICES FAILURE IN PROCESSING LAST COMMAND

BNJ965I
END COMMAND HAS BEEN ISSUED, SESSION WILL BE TERMINATED

BNJ974I
SCREEN HAS BEEN PRINTED

BNJ975I
SCREEN LOGGED BUT NOT PRINTED

BNJ976I
STORAGE NOT AVAILABLE TO COPY USER INPUT BUFFER. RC=04

BNJ977I
AN INVALID EXTERNAL LOG TYPE WAS SPECIFIED. RC=24

BNJ978I
DSIMQS FAILED WHEN ATTEMPTING TO SEND RECORD TO EXTERNAL TASK. RC=28

BNJ979I
DSIWLS FAILED. RC=*retcode*

BNJ1335I
COULD NOT SEND FULL SCREEN DUE TO DSIPSS ERROR RC=*retcode*

BNJ1576I
COULD NOT SEND MESSAGE TO SCREEN DUE TO DSIPSS ERROR RC=*retcode*

CNM236I
commandname : *functionname* FAILED WITH RETURN CODE *returncode*

CNM493I
member : seqnum : labgrp : commandtext

CNM558I
The NetView subsystem router for *ssi_name* is not active.

CNM600I
object status: *object_status*

CNM630I
The NetView subsystem interface is partially initialized by *ssi_name*.

DSI229I
INVALID VALUE ON DEFINITION STATEMENT IN *object* - STATEMENT IGNORED

DUI4030E
parameter MISSING FROM GMFHS INITIALIZATION PARAMETERS

DWO653I
DISPLAY DEFAULTS OVERRIDES

DWO654I
DISPLAY DEFAULTS

DWO990I
type global variable *variable_name* set by *command* via *invoked_LRC*--->*calling_LRC* to value --->*new_value*<---

DWO991I
type global variable *variable_name* set by *command* via *invoked_LRC* to value --->*new_value*<---

DWO992I
type global variable *variable_name* set by *command* to value --->*new_value*<---

DWO994I
type global variable *variable_name* set to value --->*new_value*

EKGV8053E
A blank User password is not valid with the User ID specified

EKGV9015E
A blank user password is not valid with user ID specified

IHS0200I
service: Number of ServerPorts (*number*) exceeds the maximum of *maxnum*; ignoring extras.

IHS0201I
service: At least one ServerLocation must be specified.

Deleted Messages

BNJ017	BNJ018	BNJ123	BNJ1580
BNJ1581	BNJ1587	BNJ1588	BNJ1589
BNJ1592	BNJ1595	BNJ1601	BNJ1602
BNJ1603	BNJ1604	BNJ1605	BNJ1606
BNJ1607	BNJ1608	BNJ1609	BNJ1610
BNJ1614	BNJ1619	BNJ1621	BNJ228
BNJ229	BNJ246	BNJ268	BNJ622I
BNJ624I	BNJ625I	BNJ635I	BNJ636I
BNJ637I	BNJ664I	BNJ665I	BNJ690I
BNJ808I	BNJ809I	BNJ810I	BNJ820I
DSI276	DSI281	DSI282	DSI283
DSI284	DSI285	DSI286	DSI287
DSI288	DSI298	DSI299	DSI311

DSI312	DSI313	DSI314	DSI315
DSI316	DSI317	DSI318	DSI319
DSI320	DSI321	DSI322	DSI323
DSI324	DSI325	DSI326	DSI327
DSI328	DSI329	DSI330	DSI332
DSI333	DSI334	DSI338	DSI339
DSI340	DSI346	DSI347	DSI348
DSI349	DSI350	DSI351	DSI352
DSI353	DSI354	DSI355	DSI389
DSI420	DSI425	DSI426	DSI427
DSI429	DSI438	DSI440	DSI441
DSI442	DSI513	DSI514	DSI564
DSI595	DSI635	DSI656	DSI659
DSI699	DWO606	DWO613	FKV822
FKV823	FKV824	FKV825	FKV826
FKV827	FKV828	FKV829	FKV830
FKV832	FKV833	FKV837	FKV840
FKV842	FKV852	FKV853	FKV854
FKV855			

Samples

"New Samples" on page 198 lists new samples for the NetView V6R2M1 program:

"Deleted Samples" on page 198 lists deleted samples for the NetView V6R2M1 program:

New Samples

AQNDMMY1	CNMCRGC1	CNMCRGR1	CNMS8053
CNMS8054	CNMSCATU	CNMSCSDP	CNMSCSFM
CNMSCSIE	CNMSCSSU	CNMSJM15	

Deleted Samples

AQNCAT	AQNCMD	AQNOPF	AQNSACTA
AQNSAF	BNJ36DST	CNMCRGI1	CNMCRGI2
CNMS4VSM	CNMSCBEA	CNMSCBET	CNMSTLIF
CNMSTREP			

Command Changes

This section lists new and changed commands for the NetView V6R2M1 program:

- "Changed Commands" on page 199

- “Deleted Commands” on page 199

New Commands

- CMDMON (NCCF)
- PRINT (BROWSE)
- PRINT (CANZLOG)
- PRINT (NCCF)

Changed Commands

The following commands have been changed:

- CGED (NCCF)
- DEFAULTS (NCCF)
- GLOBALV AUTO (REXX)
- GLOBALV DEF (REXX)
- GLOBALV GET (REXX)
- GLOBALV PURGE (REXX)
- GLOBALV PUT (REXX)
- GLOBALV RESTORE (REXX)
- GLOBALV REXX
- GLOBALV SAVE (REXX)
- GLOBALV TRACE (REXX)
- LISTVAR (NCCF; CNME1006)
- MEMSTORE
- NVINFO
- PIPE VET
- QRYGLOBL (NCCF)
- REFRESH (NCCF)
- RESTYLE (NCCF)
- SETCGLOB
- SOACTL (NCCF)
- TASKUTIL
- UPDCGLOB

Deleted Commands

The following commands were deleted:

- ACTVCTL (NCCF)
- ACTVLIFE (NCCF)
- ACTVREPL (NCCF)
- ALLC (TARA)
- CTRL (LPDA)
- CTRL (TARA)
- DISPCBET
- DISPLAY (TARA)
- LINKDATA

- LINKPD
- LINKTEST
- LOOP (TARA)
- SYSMON (TARA)
- TCTRL (TARA)
- TERR (TARA)
- TSTAT (TARA)
- TTERR (TARA)
- TTRESP (TARA)
- TWERR (TARA)
- TWRESP (TARA)
- TWSTAT (TARA)
- VBVSERV
- WKSTA (TARA)

Enterprise Management Agent Changes

This section lists changes introduced with the following APARs in the Tivoli NetView for z/OS Enterprise Management Agent for version 6.2.1:

Changes introduced with APAR OA52115

The following changes are available with the Tivoli NetView for z/OS Enterprise Management Agent for Version 6.2.1 when APAR OA52115 is applied:

- All queries and workspaces that are new or changed by the APAR include the qualifier（V6212）in the query and workspace descriptions.
- Table 81 on page 200 shows the changes to existing workspaces that are used for monitoring the status of workloads and other managed elements in the GDPS Active/Active Continuous Availability solution.

Table 81. Workspace Changes for the GDPS Active/Active Continuous Availability solution

Workspaces	Changes
– Filtered Workload Servers – Workload Servers – zOS Workload Server Details – MQ Workload Cluster Details – SNA Workload Server Details	– The following attributes are added to the Workload Servers attribute group: - zOS Site Name (displayed for SNA, MQ Workload Cluster and zOS servers) – The following link is changed: - The MQ Workload Cluster Details link now filters on the Cluster Name in addition to IP Address:Port and Image Name.
Workload Lifeline Agents	The following attributes are added to the Workload Lifeline Agents attribute group: – zOS Site Name

Changes introduced with APAR OA51631

The following changes are available with the Tivoli NetView for z/OS Enterprise Management Agent for Version 6.2.1 when APAR OA51631 is applied:

- All queries and workspaces that are new or changed by the APAR include the qualifier（V6211）in the query and workspace descriptions.
- Table 82 on page 201 shows the changes to existing workspaces that are used for monitoring the status of workloads and other managed elements in the GDPS Active/Active Continuous Availability solution.

Table 82. Workspace Changes for the GDPS Active/Active Continuous Availability solution

Workspaces	**Changes**
– Filtered Workload Servers – Workload Servers	– The Filtered Workload Servers and Workload Servers workspaces are updated to include MQ workload clusters and change Linux on System z to Linux on z Systems. – The following attributes are added to the Workload Servers attribute group: - Cluster Name (displayed for MQ Workload Clusters) - Queue Manager Name (displayed for MQ Workload Clusters) - Queue Manager Availability (displayed for MQ workload clusters) – The following views are added, changed or deleted: - The Workload Servers by Type bar chart view added MQ workload clusters as a server type. A bar is not displayed for server types with zero servers or zero clusters. - The MQ Workload Clusters Summary table view is added. This table displays summary information for each MQ Workload Cluster. - The title of the Linux on System z Workload Servers Summary table view is changed to Linux on z Systems Workload Servers summary. – The following links are changed or added: - The Linux on System z Workload Server Details link name is changed to Linux on z Systems Workload Server Details. This link targets the renamed Linux on z Systems Workload Server Details workspace. - The MQ Workload Cluster Details link is added to the MQ Workload Cluster Summary table. This new link targets the new MQ Workload Cluster Details workspace.
– Filtered Workloads – Workloads	The existing Workload Servers link in the Workloads Summary table targets the Filtered Workload Servers workspace. This link is updated to filter the new queries in the target workspace.
Workload Lifeline Agents	For Agent Type, the value of Linux on System z is changed to Linux on z Systems.
VSAM Replication Details	The following attribute is added to the VSAM Replication Apply Details attribute group: – Apply Exit Name

Table 82. Workspace Changes for the GDPS Active/Active Continuous Availability solution (continued)	
Workspaces	**Changes**
DB2® Replication Details	– The following attributes are added to the DB2 Replication Capture Server attribute group: - Large Transaction Warnings - Log API Warnings - Log Read No Progress Error Count - Log Read Error Count - Total MQ Commit Time – The following attribute is added to the DB2 Replication Capture Workload attribute group: - MQ Put Time
Filtered Replication Servers	The following attributes are added to the Replication Servers attribute group: – Source Site Name – Average Transaction Response Time – Average Transaction Dependency Delay
Replication Servers	The following attributes are added to the Replication Workloads attribute group: – Source Site Name – Average Transaction Response Time

- The following situations for the GDPS Active/Active Continuous Availability solution are new:
  - NAS_AA_DB2_LargeTransWarning
  - NAS_AA_DB2_LogAPIWarning
  - NAS_AA_DB2_NoProgress
- Table 83 on page 202 shows the new workspaces that are used for monitoring the status of workloads and other managed elements in the GDPS Active/Active Continuous Availability solution.

Table 83. New Workspaces for the GDPS Active/Active Continuous Availability solution	
Workspace	**Attribute Group**
MQ Workload Cluster Details	Workload Servers

Changes introduced with APAR OA46519

The following changes are available with the Tivoli NetView for z/OS Enterprise Management Agent for Version 6.2.1 when APAR OA46519 is applied:

- All queries and workspaces that are new or changed for Version 6.2.1 include the qualifier（V621）in the query and workspace descriptions. The identification of the version, release, and modification level for queries and workspaces began with Version 5 Release 4. Queries and workspaces that were part of the product before V5R4 do not include a qualifier.
- Table 84 on page 203 shows the changes to existing workspaces.

Table 84. Workspace Changes	
Workspace	**Changes**
NetView Applications	The format of the value for the existing NetView Version attribute is changed from V*v*R*r* to V*vrm*, where *v* is the version number, *r* is the release number and *m* is the modification number.
OSA Channels and Ports	– The following values for the existing Channel Hardware Level attribute are added for monitoring the channel and port configuration of OSA-Express4S and OSA-Express5S features: - osaExp500 (6) - osaExp600 (7) – The following values for the existing Port Type attribute are added: - 195: osaexp5SgigabitEthernet - 196: osaexp5SoneThousandBaseTEthernet - 197: osaexp5StenGigabitEthernet – The following values for the existing Subtype attribute are added: - 195: osaexp5gigabitEthernet - 196: osaexp5oneThousandBaseTEthernet - 197: osaexp5tenGigabitEthernet

- Table 85 on page 203 shows the changes to existing workspaces that are used for monitoring the status of workloads and other managed elements in the GDPS Active/Active Continuous Availability solution.

Table 85. Workspace Changes for the GDPS Active/Active Continuous Availability solution	
Workspaces	**Changes**
Active/Query Workloads	The existing Workload Servers link in the Active/Query Workloads Summary table targets the Filtered Workload Servers workspace. This link is updated to filter the new queries in the target workspace.

Table 85. Workspace Changes for the GDPS Active/Active Continuous Availability solution (continued)

Workspaces	Changes
– Filtered Workload Servers – Workload Servers	– The Filtered Workload Servers and Workload Servers workspaces are updated to display Linux on System z and SNA workload servers, in addition to z/OS workload servers. – The following attributes are added to the Workload Servers attribute group: - Agent Guest Name (displayed for Linux on System z workload servers) - Application Name (displayed for SNA workload servers) - Network ID (displayed for SNA workload servers) - Server Count (for NetView product internal use and filtered out of the table view by default) - Server Guest Name (displayed for Linux on System z workload servers) - Server Type (filtered out of the table view by default) – The caption for the existing z/OS Image Name attribute is changed to Image Name. – The following views are added, changed or deleted: - The Workload Servers by Type bar chart view is added. This new view provides a snapshot of the number of workload servers by type: Linux on System z, SNA and z/OS. A bar is not displayed for server types with zero servers. - The title of the Workload Servers Summary table view is changed to z/OS Workload Servers Summary and displays summary information for each z/OS workload server. - The Linux on System z Workload Servers Summary table view is added. This new table displays summary information for each Linux on System z workload server. - The SNA Workload Servers Summary table view is added. This table displays summary information for each SNA workload server. - The Net Weight bar chart and Abnormal Terminations bar chart views are deleted. – The following links are changed or added: - The name of the existing Workload Server Details link in the z/OS Workload Servers Summary table is changed to z/OS Workload Server Details. - The Linux on System z Workload Server Details link is added to the Linux on System z Workload Servers Summary table. This new link targets the new Linux on System z Workload Server Details workspace. - The SNA Workload Server Details link is added to the SNA Workload Servers Summary table. This new link targets the new SNA Workload Server Details workspace.
– Filtered Workloads – Workloads	The existing Workload Servers link in the Workloads Summary table targets the Filtered Workload Servers workspace. This link is updated to filter the new queries in the target workspace.

Table 85. Workspace Changes for the GDPS Active/Active Continuous Availability solution (continued)	
Workspaces	**Changes**
Load Balancers	– The expression for the linkIsEnabled parameter that determines enablement of the existing Load Balancer Groups link that is defined in the Load Balancer Summary table is changed. For details, see **Load Balancers Workspace**. – The expression for the linkIsEnabled parameter that determines enablement of the existing Load Balancer Workloads link that is defined in the Load Balancer Summary table is changed. For details, see **Load Balancers Workspace**.
Workload Lifeline Advisors	The existing Workload Servers link in the Workload Lifeline Advisors Summary table targets the Workload Servers workspace. This link is updated to filter the new queries in the target workspace.
Workload Lifeline Agents	– The following attribute is added to the Workload Lifeline Agents attribute group: - Agent Type – The caption for the existing z/OS Image Name attribute is changed to Image Name. – The name of the existing Workload Servers link in the Workload Lifeline Agents Summary table is changed to Workload Servers for z/OS. It is enabled for rows where the value of Monitored Servers is not equal to zero and the value of Agent Type is equal to z/OS (1). This link is updated to filter the new queries in the target Filtered Workload Servers workspace. – The Workload Servers for Linux on System z link is added to the Workload Lifeline Agents Summary table. It is enabled for rows where the value of Monitored Servers is not equal to zero and the value of Agent Type is equal to Linux on System z Management Guest (2). This link targets the Filtered Workload Servers workspace.
Workload Server Details	– The name of the existing Workload Server Details workspace is changed to z/OS Workload Server Details. – The name of the existing Workload Server Details Summary table view is changed to z/OS Workload Server Details Summary.

- Table 86 on page 205 shows the new workspaces that are used for monitoring the status of workloads and other managed elements in the GDPS Active/Active Continuous Availability solution.

Table 86. New Workspaces for the GDPS Active/Active Continuous Availability solution	
Workspace	**Attribute Group**
Linux on System z Workload Server Details	Workload Servers
SNA Workload Server Details	Workload Servers

Appendix E. AON CMDDEF Statements Not Requiring SEC=BY

The SEC=BY keyword can be removed from the AON CMDDEF statements for the commands that follow. Review your AON command security definitions to determine if removing this keyword is appropriate for your environment. The %INCLUDE members that are listed contain the CMDDEF statements for the NetView V6R2M1 program.

CNMCMENT

This section lists command definitions that have had the SEC=BY keyword removed. The CMDDEF statements are in %INCLUDE member CNMCMENT.

EZLEASLN	EZLENFRM	EZLERGWY	EZLE1900

EZLCMENT

This section lists command definitions that have had the SEC=BY keyword removed. The CMDDEF statements are in %INCLUDE member EZLCMENT.

EZLALOG	EZLASTS	EZLAUST	EZLE1CDL
EZLE1CNT	EZLE1DAL	EZLE1DOM	EZLE1FUL
EZLE1FWD	EZLE1GXC	EZLE1GXD	EZLE1GXE
EZLE1I01	EZLE1I02	EZLE1I03	EZLE1I04
EZLE1I05	EZLE1I06	EZLE1I07	EZLE1I08
EZLE1ICK	EZLE1IGT	EZLE1IMN	EZLE1INT
EZLE1ITF	EZLE1IXD	EZLE1IXL	EZLE1NTF
EZLE1RGT	EZLE1RNT	EZLE1RSP	EZLE1RTN
EZLE1RUD	EZLE1RUR	EZLE1RUT	EZLE1RUU
EZLE1RUX	EZLE1TMX	EZLE1UFW	EZLE1XMN
EZLE1XTF	EZLE4110	EZLE4120	EZLE7110
EZLE7210	EZLE8110	EZLE8120	EZLE8410
EZLE8611	EZLE8612	EZLEAAGD	EZLEAAIC
EZLEAANV	EZLEAAT1	EZLEAAT2	EZLEAAT3
EZLEAAT4	EZLEAAT5	EZLEAAT6	EZLEAAT8
EZLEAAT9	EZLEAATR	EZLEAATS	EZLEAC10
EZLEAC11	EZLEACG0	EZLEACG1	EZLEACG2
EZLEACG3	EZLEACG4	EZLEACG5	EZLEACG6
EZLEACG7	EZLEACG8	EZLEACG9	EZLEACGA
EZLEACGL	EZLEACGT	EZLEACKT	EZLEACNT
EZLEACST	EZLEACSX	EZLEACT1	EZLEACT2

EZLEADLY	EZLEAEXI	EZLEAFST	EZLEAGEN
EZLEAGN1	EZLEAGRN	EZLEAHED	EZLEAINL
EZLEAINT	EZLEAIOP	EZLEAIPL	EZLEAIRP
EZLEAISM	EZLEAJUL	EZLEALCL	EZLEALD1
EZLEALDR	EZLEALFL	EZLEALIC	EZLEALRS
EZLEALSW	EZLEANTL	EZLEARCY	EZLEARFR
EZLEARST	EZLEASAO	EZLEASCD	EZLEASCN
EZLEASTK	EZLEASTM	EZLEATDS	EZLEATRC
EZLEATST	EZLEAU01	EZLEAU02	EZLEAU03
EZLEAUCG	EZLEAUCL	EZLEAUS1	EZLEAUSF
EZLEAUST	EZLEAX00	EZLEAX01	EZLEBELG
EZLECAUT	EZLECHAU	EZLECHGF	EZLECTHR
EZLEDAN1	EZLEDTSK	EZLEDUTL	EZLEF001
EZLEF003	EZLEF004	EZLEF009	EZLEF00B
EZLEF00D	EZLEFAIL	EZLEGTID	EZLEHBLD
EZLEHRCY	EZLEICGS	EZLEICGV	EZLEIDNT
EZLEITWR	EZLELSTH	EZLEMCOL	EZLEMSU
EZLENDET	EZLENPS2	EZLEOIVT	EZLEOPER
EZLEPAR	EZLEPDEL	EZLEPDIS	EZLEPRCY
EZLERAIP	EZLERCMD	EZLERECV	EZLERMSU
EZLERNGE	EZLEROUT	EZLESLCT	EZLESNTX
EZLESRMD	EZLESTOP	EZLESTRT	EZLEVACT
EZLEVIEW	EZLEVINA	EZLEVMOV	EZLEW001
EZLEW002	EZLEXIT7	EZLIPLDT	EZLSACAF
EZLSATHR	EZLSAU07	EZLSCMOD	EZLSHNDE
EZLSMSU	EZLSNHLP	EZLSPIPS	EZLSTMEM
EZLSUSER	EZLSX001		

FKVCMENT

This section lists command definitions that have had the SEC=BY keyword removed. The CMDDEF statements are in %INCLUDE member FKVCMENT.

EZLENCH1	EZLENCH2	EZLENCH3	EZLENCH4
FKVASNB	FKVE095A	FKVE1100	FKVE1101
FKVE1102	FKVE1103	FKVE1104	FKVE1110
FKVE1200	FKVE1300	FKVE1310	FKVE1320
FKVE1330	FKVE2100	FKVE270I	FKVE284A
FKVE285I	FKVE380I	FKVE464I	FKVE530I
FKVE881I	FKVE897I	FKVEA0IC	FKVEA200

FKVEA210	FKVEA410	FKVEADMP	FKVEAID1
FKVEAID2	FKVEAID3	FKVEAID4	FKVEAID5
FKVEAID6	FKVEAID7	FKVEAID8	FKVEAID9
FKVEAIDA	FKVEAIDB	FKVEAIDC	FKVEAIDD
FKVEAIDE	FKVEAIDF	FKVEAIDG	FKVEAIDH
FKVEAIDI	FKVEAIDJ	FKVEAIDK	FKVEAMS1
FKVEARLD	FKVECAPL	FKVECGBG	FKVECGCA
FKVECGCC	FKVECGCD	FKVECGDA	FKVECGDB
FKVECGDC	FKVECGDD	FKVECGDE	FKVECGDF
FKVECGDG	FKVECGEA	FKVECGEB	FKVECGEC
FKVECGED	FKVECGFD	FKVECGFF	FKVECGFG
FKVECGFH	FKVECGHA	FKVECGHB	FKVECGHD
FKVECHCM	FKVECHIN	FKVECHRP	FKVECHSG
FKVECHSR	FKVECNCP	FKVEDETL	FKVEF005
FKVEINIT	FKVEOG01	FKVEOG02	FKVEOG03
FKVEOG04	FKVEOG05	FKVEOG06	FKVEOG07
FKVEOG08	FKVEOG09	FKVEOI00	FKVEOPFI
FKVEOSEC	FKVERDIS	FKVETGSW	FKVEX74E
FKVEX74X	FKVEXACT	FKVEXCDB	FKVEXCON
FKVEXDIS	FKVEXINA	FKVEXMCH	FKVEXRES
FKVEXTRK	FKVSSNBU		

FKXCMENT

This section lists command definitions that have had the SEC=BY keyword removed. The CMDDEF statements are in %INCLUDE member FKXCMENT.

FKXEACT2	FKXEAID1	FKXEAID2	FKXEAIDA
FKXEALRT	FKXEAMS1	FKXECATV	FKXEDDFP
FKXEGTID	FKXEHNDE	FKXEINIT	FKXENSTH
FKXEOTHR	FKXEPING	FKXESVPT	FKXWIND1
FKXWIND2			

Appendix F. Migrating to the CNMSTYLE and CNMCMD Members

The CNMSTYLE member in the DSIPARM data set is used during NetView initialization. The CNMSTYLE members and its dependent members replace initialization that was performed in the CNME1034 command list and in some DSIPARM definition statements in prior releases of the NetView program.

The CNMCMD member in the DSIPARM data set contains command definitions. The CNMCMD member replaces the DSICMD member.

The CNMSJMIG sample in the NETVIEW.V621USER.INSTALL data set uses the CNMEMIG command list to assist in converting your CNME1034 command list and DSIPARM statements to the new CNMSTYLE format. This sample provides JCL that runs under the TSO terminal monitor program. The CNMSJMIG sample creates CNMSTYLE statements. In most cases, the CNMSJMIG sample converts existing initialization statements into statements that provide equivalent settings. Review the generated statements to validate that they provide the setting you want before enabling them in your installation. You can also use the CNMSJMIG sample to migrate DSICMD files to the new CNMCMD format.

The CNMEMIG command list performs system symbolic substitution, such as the &DOMAIN symbolic variable, when this information is supplied by the customer in the CNMSJMIG sample. However, the CNMEMIG command list cannot properly interpret Data REXX. Because of this, before running the CNMEMIG command list to migrate your DSIPARM definitions to the new CNMSTYLE and CNMCMD formats, ensure that your DSIPARM definitions (or any member that they include) do not contain Data REXX. You can convert your DSIPARM members to not contain Data REXX by running the following PIPE command under the NetView program from which you are migrating:

```
PIPE < member INCL | > 'altparmds(member)'
```

where *altparmds* is an alternate DSIPARM data set that will contain the converted DSIPARM member and *member* is the DSIPARM member that is being converted. Then specify this alternate data set in the CNMSJMIG sample as the first data set in your OLDPARM data set concatenation. It is important that you run the above PIPE command under the NetView program from which you are migrating in order to preserve your current settings.

Note:

1. While not necessary unless the SA tower is activated or the shipped CNMCMDx members are not used, this same procedure can be done for CNMCMD because it also contains Data REXX.
2. When the CNMEMIG command list processes the OLDPARM members, a BNH164I message is issued for any member still containing Data REXX. These messages can be ignored if the OLDPARM member is not being migrated. The CNMEMIG command list skips over the Data REXX file and continues to attempt processing the remaining files.

The CNMSJMIG sample requires the following data sets:

DSIPARM
The concatenated data set list containing current release versions of the CNMSTYLE and CNMCMD members.

OLDPARM
The concatenated data set list containing NetView definitions for the release from which you are migrating.

OLDCLD
The concatenated data set list containing command lists (CNME1034 and CNME1054) for the release from which you are migrating. If you have renamed these members for the release from which you are migrating, place a copy of your members in the OLDCLD concatenation with the names CNME1034 and CNME1054 to enable the tool to find your customization.

DSIWRIT
The concatenated output data set list containing converted CNMSTYLE statements and intermediate output files.

The CNMSJMIG sample creates the following members in the output data sets specified by DSIWRIT:

CNMSTMIG
When the COMPARE option is specified, this member is created and contains converted CNMSTYLE statements that are different from existing v6.2.1 CNMSTYLE statements. It is placed in the first data set specified by the DSIWRIT DD statement.

Statements start in column 3. The first two columns are blank. Column 1 is reserved to specify which statements are to be copied into the CNMSTUSR member when the UPDATE option is specified. The member also contains section headings. The heading contains the name of the parameter member from which the CNMSTYLE statement was derived. All CNMSTYLE statements in a section are created from the same parameter member.

CNMCMMIG
When the COMPARE option is specified, this member is created and contains converted CNMCMD statements that are different from existing v6.2.1 CNMCMD statements. It is placed in the first data set specified by the DSIWRIT DD statement.

Statements start in column 3. The first two columns are blank. Column 1 is reserved to specify which statements are to be copied into CNMCMDU when the UPDATE option is specified.

CNMSTUSR
When the UPDATE option is specified, this member is appended with converted CNMSTYLE statements. Only statements in the CNMSTMIG member that are marked with a non-blank character in column 1 are appended. A comment line is also included that contains a timestamp when the update was made.

The first DSIWRIT data set is used that contains the CNMSTUSR member. If the CNMSTUSR member is not found in any data set in the concatenation, a new member is created in the first data set specified by the DSIWRIT DD statement.

Note: For evaluation of initialization statements, you can use the CNMSJCRG sample to produce a report of the CNMSTYLE member. For more information, see Chapter 7, “Getting Ready to Start NetView,” on page 99.

CNMCMDU
When the UPDATE option is specified, this member is appended with converted CNMCMD statements. Only statements in the CNMCMMIG member that are marked with a non-blank character in column 1 are appended. A comment line is also included that contains a time stamp when the update was made.

The first DSIWRIT data set that contains the CNMCMDU member is used. If the CNMCMDU member is not found in any data set in the concatenation, a new member is created in the first data set specified by the DSIWRIT DD statement.

Specify the following keyword parameters on the CNMEMIG command in the CNMSJMIG sample:

NETVREL=V*x*R*y*
Specifies the release from which you are migrating:

- V1R4

FUNCTION=COMPARE | UPDATE
Specifies the processing step to perform:

COMPARE
Compares the parameter or command members from the release from which you are migrating with the current CNMSTYLE or DSICMD values. Migrated statements are placed in the CNMSTMIG or CNMCMMIG samples. If omitted, FUNCTION=COMPARE is the default.

UPDATE
Moves any statements with a character in column 1 from the CNMSTMIG member to the CNMSTUSR member, and any statements with a character in column 1 from the CNMCMMIG member to the CNMCMDU member.

FILES=CNMSTYLE | CNMCMD | BOTH
Specifies the definitions to be migrated:

CNMSTYLE
Indicates to migrate parameter definitions and initialization statements to the CNMSTUSR member.

CNMCMD
Indicates to migrate command definitions to the CNMCMDU member.

BOTH
Indicates both the CNMSTYLE and CNMCMD members.

&symbolic_name=value
Indicates a system or NetView symbolic variable used in the data sets specified by OLDPARM and OLDCLD, for example &DOMAIN=CNM01.

The symbolic variable &NV2I defaults to the value NM if not specified.

Note: Do not use spaces in any of the parameter fields for CNMEMIG command list.

The following return codes are set by CNMEMIG:

0
Successful completion; a file was created in DSIWRIT

4
Minor errors encountered; a file was created in DSIWRIT

8
Major error encountered; a file was not created in DSIWRIT

For non-zero return codes, error messages can be found in the CNMSJMIG job log.

Table 87 on page 214 shows DSIPARM statements in prior NetView releases that were converted to CNMSTYLE or CNMCMD statements.

Table 87 on page 214 also shows which commands within CNME1034 were converted to CNMSTYLE statements. You might have added commands to CNME1034 that were not converted to CNMSTYLE statements. Consider how to incorporate these commands into the NetView initialization flow. One approach is to create a command list member with these unconverted commands and then call this command list using the CNMSTYLE auxInitCmd statement. For information about the auxInitCmd statement, refer to the *IBM Tivoli NetView for z/OS Administration Reference*.

Table 87. DSIPARM Member Statements

DSIPARM Member	DSIPARM Control Statement	CNMSTYLE or CNMCMD Statement
AAUPRLMP	DSTINIT DSRBO DSTINIT MACRF DSTINIT PDDNM DSTINIT SDDNM INITMOD AAUICPEX AUTHROM INITMOD AAUINLDM AMLUTDLY INITMOD AAUINLDM AUTHORIZ INITMOD AAUINLDM BUFTYPE INITMOD AAUINLDM CDTIME INITMOD AAUINLDM DRDELAY INITMOD AAUINLDM ERCOUNT INITMOD AAUINLDM FCTIME INITMOD AAUINLDM KEEPDISC INITMOD AAUINLDM KEEPMEM INITMOD AAUINLDM KEEPPIU INITMOD AAUINLDM KEEPRTM INITMOD AAUINLDM KEEPSESS INITMOD AAUINLDM LOG INITMOD AAUINLDM LUCOUNT INITMOD AAUINLDM MAXEND INITMOD AAUINLDM NETID INITMOD AAUINLDM PERFMEM INITMOD AAUINLDM PURGE INITMOD AAUINLDM RTDASD INITMOD AAUINLDM RTM INITMOD AAUINLDM RTMDISP INITMOD AAUINLDM SAW INITMOD AAUINLDM TRACEGW INITMOD AAUINLDM TRACELU INITMOD AAUINLDM TRACESC	NLDM.DSRBO NLDM.MACRF NLDM.PDDNM NLDM.SDDNM NLDM.AUTHDOM.X NLDM.AMLUTDLY NLDM.AUTHORIZ.X NLDM.OTHER NLDM.CDTIME NLDM.DRDELAY NLDM.ERCOUNT NLDM.FCTIME NLDM.KEEPDISC NLDM.KEEPMEM NLDM.KEEPPIU NLDM.KEEPRTM NLDM.KEEPSESS NLDM.LOG NLDM.LUCOUNT NLDM.MAXEND NLDM.NETID NLDM.PERFMEM NLDM.PURGE NLDM.RTDASD NLDM.RTM NLDM.RTMDISP NLDM.SAW NLDM.TRACEGW NLDM.TRACELU NLDM.TRACESC

Table 87. DSIPARM Member Statements (continued)

DSIPARM Member	DSIPARM Control Statement	CNMSTYLE or CNMCMD Statement
BNJMBDST	ALCACHE ALERTLOG ALRTINFP ALT_ALERT AUTORATE DSTINIT DSRBO DSTINIT DSRBU DSTINIT FUNCT DSTINIT MACRF DSTINIT PDDNM DSTINIT PPASS DSTINIT SDDNM DSTINIT SPASS ERR_RATE IHTHRESH LQTHRESH PRELOAD R RATE REPORTS TECROUTE W	NPDA.ALCACHE NPDA.ALERTLOG NPDA.ALRTINFP.RECORD NPDA.ALT_ALERT NPDA.AUTORATE NPDA.DSRBO NPDA.DSRBU CNMI NPDA.MACRF NPDA.PDDNM NPDA.PPASS NPDA.SDDNM NPDA.SPASS NPDA.ERR_RATE NPDA.IHTHRESH NPDA.LQTHRESH NPDA.PRELOAD_BER NPDA.R.X NPDA.RATE NPDA.REPORTS NPDA.TECROUTE NPDA.W.X
CNME1034[1]	ASSIGN CCDEF MEMBER CNMOPDSPREFIX DUIFHNAM DUIFHPRC EKGHNAM EKGHPRC EVERY HLLENV CHANGE HLLENV CHANGE HLLENV CHANGE HLLENV CHANGE HLLENV CHANGE IDLEOFF INIT IDLEOFF INIT IDLEOFF INIT IDLEOFF INIT IDLEOFF INIT IDLEOFF INIT IDLEOFF INIT MEMSTORE MEMSTORE NETV DEFAULTS ROUTE = SMFVPD TRANSMSG MEMBER	ASSIGN.OPGROUP.GROUP CCDEF OpDsPrefix COMMON.DUIFHNAM COMMON.DUIFHPRC COMMON.EKGHNAM COMMON.EKGHRPC memStore.frequency HLLENV.TYPE.CRITENVS HLLENV.TYPE.DEFAULT HLLENV.TYPE.PHEAP HLLENV.TYPE.PSTACK HLLENV.TYPE.REGENVS function.autotask.idleoff idleparms.exceptAuto idleparms.exceptLU idleparms.exceptNNT idleparms.exceptOP idleparms.exceptRmtCmd idleparms.frequency idleparms.idlemin memStore.minhits memStore.stgLimit DEFAULTS.CMD function.autotask.memStore COMMON.SMFVPD transMember

Table 87. DSIPARM Member Statements (continued)

DSIPARM Member	DSIPARM Control Statement	CNMSTYLE or CNMCMD Statement
CNME1034[2]	&DUIFHNAM &DUIFHPRC &EKGHNAM &EKGHPRC &SMFVPD ASSIGN CCDEF MEMBER DEFAULTS CMD TRANSMSG MEMBER	COMMON.DUIFHNAM COMMON.DUIFHPRC COMMON,.EKGHNAM COMMON.EKGHPRC COMMON.SMFVPD ASSIGN.OPGROUP.GROUP CCDEF DEFAULTS.CMD transMember
CNME1054	exlist.0	memStore.never
DSIAMLTD	CDRMDEF DSTINIT FUNCT	NLDM.CDRMDEF.X NPDA.RETRY
DSICMD	CMDMDL CMDSYN COMNTESC ECHO END IGNRLSUP MOD PARTSYN PARSE RES SEC TYPE	CMDDEF.MDLNAME.MOD CMDDEF.MDLNAME.CMDSYN *not migrated* CMDDEF.MDLNAME.ECHO *not migrated* CMDDEF.MDLNAME.IGNRLSUP CMDDEF.MDLNAME.MODNAME CMDDEF.MDLNAME.PARMSYN.PARMNAME CMDDEF.MDLNAME.PARSE CMDDEF.MDLNAME.RES CMDDEF.MDLNAME.SEC CMDDEF.MDLNAME.TYPE
DSIDMNK	ALERTFWD DB2RRS HARDCOPY LOADEXIT MAXABEND MAXLOGON MVSPARM DEFAULT= MVSPARM MIGRATE= NCCFID DOMAINID= NCCFID SUPPCHAR= OPTIONS AUTHCHK= OPTIONS CMDAUTH= OPTIONS OPERSEC= OPTIONS OPSPAN OPTIONS SPANAUTH OPTIONS WEBAUTH RRD TRANSTBL MOD VTAMCP USE=	NPDA.ALERTFWD DB2SEC HARDCOPY LOADEXIT. DEFAULTS.MAXABEND DEFAULTS.MAXLOGON MVSPARM.DEFAUTH MVSPARM.MIGRATE DOMAIN SUPPCHAR SECOPT.AUTHCHK SECOPT.CMDAUTH SECOPT.OPERSEC SECOPT.OPSPAN SECOPT.SPANAUTH SECOPT.WEBAUTH RRD. TRANSTBL VTAMCP.USE
DSIILGCF	PORT SOCKETS TCPANAME	PORT SOCKETS TCPANAME

Table 87. DSIPARM Member Statements (continued)

DSIPARM Member	DSIPARM Control Statement	CNMSTYLE or CNMCMD Statement
DSILUCTD	CNMAUTH CTL= CNMTARG LU "DSTINIT FUNCT=OTHER,PERSIST=" MAXSESS	LUC.CTL LUC.CNMTARG.X LUC.PERSIST LUC.MAXSESS
DSIREXCF	PORT SOCKETS TCPANAME	PORT SOCKETS TCPANAME
DSIRSHCF	PORT SOCKETS TCPANAME	PORT SOCKETS TCPANAME
DSIRTTTD	PORT SOCKETS TCPANAME	PORT SOCKETS TCPANAME
DSITBL01	CMD('DBFULL NLDM 'MESSAGE) CMD('DBFULL NLDM 'MESSAGE) CMD('SAVECMD')	function.atutask.SMONdbMaint function.autotask.HMONdbMaint funtion.autotask.SAVECMD
DSITCPCF	PORT SOCKETS TCPANAME	PORT SOCKETS TCPANAME
DSIUINIT	RMTSECUR SAFREFSH	RMTINIT.SECOPT RMTINIT.SAFrefresh
DSIWBMEM	PORT SOCKETS TCPANAME	PORT SOCKETS TCPANAME
DUIFPMEM	PORT SOCKETS TCPANAME	PORT SOCKETS TCPANAME
DUIIGHB	TCPANAME	GHB.TCPANAME
EZLCFG01	WAIT XDOM	COMMON.WAITTIME COMMON.XDOMTIME
FKXEICMD	Default_Server_Name Default_Stack_Name	TCPserver TCPname

Table 87. DSIPARM Member Statements (continued)

DSIPARM Member	DSIPARM Control Statement	CNMSTYLE or CNMCMD Statement
FLCSAINP	DEF_NETW_VIEW EXCEPTION_VIEW_FILE RODMCMDRETRY RODMINT RODMNAME RODMRETRY TCPNAME TN3270_FILE	(MSM)COMMON.FLC_DEF_NETW_VIEW (MSM)COMMON.FLC_EXCEPTION_VIEW (MSM)COMMON.FLC_RODMCMDRETRY (MSM)COMMON.FLC_RODMINT (MSM)COMMON.FLC_RODMNAME (MSM)COMMON.FLC_RODMRETRY (MSM)COMMON.FLC_TCPNAME (MSM)COMMON.FLC_TN3270_FILE

Note:

1. REXX version
2. Pre-REXX version (NetView V1R2 and before)

Appendix G. Differences Between IPv4 and IPv6 Addresses

When you are specifying IP addresses, you can use the following formats:

- An IPv4 address in dotted-decimal format, *d.d.d.d* , where each *d* is a decimal number from 0 to 255. An IPv4 address is a 32-bit address separated into four 8-bit parts. Each part is converted to its decimal equivalent, and the parts are separated by periods. The following examples show IPv4 addresses:

  ```
  13.1.68.3
  129.144.52.38
  ```

- An IPv6 address in colon-hexadecimal format, *h:h:h:h:h:h:h:h* , where each *h* is a hexadecimal value (0-FFFF). An IPv6 address is a 128-bit address separated into eight 16-bit parts. Each part is converted to a hexadecimal number, and the parts are separated by colons. Leading zeros are not required, but, unless an address is compressed, each part must have at least one numeral. The following examples show colon-hexadecimal format IPv6 addresses:

  ```
  FEDC:BA98:7654:3210:FEDC:BA98:7654:3210
  1080:0:0:0:8:800:200C:417A
  ```

- An IPv4-compatible IPv6 address or IPv4-mapped IPv6 address in mixed format, *h:h:h:h:h:h:d.d.d.d* , where *h* is a hexadecimal value, one for each of the 6 high-order 16-bit parts of the address, and *d* is a decimal value, one for each of the 4 low-order 8-bit parts of the address (standard IPv4 representation). This format is useful in an environment that uses both IPv4 and IPv6 addresses. The following examples show these addresses:

  `0:0:0:0:0:0:13.1.68.3` (IPv4-compatible IPv6 address)
  `0:0:0:0:0:FFFF:129.144.52.38` (IPv4-mapped IPv6 address)

  Note:

  1. The first five *h* values must be zero (0), and the sixth *h* value must be X'FFFF' in an IPv4-mapped IPv6 address.
  2. All six *h* values must be zero in an IPv4-compatible IPv6 address.

IPv6 addresses, IPv4-compatible IPv6 addresses, and IPv4-mapped IPv6 addresses that contain zero bits can be compressed. The value `::` can be substituted for multiple consecutive groups of zeros. The `::` can be used only once in an address and can be used to compress leading or trailing zeros in an address. The following examples are of IPv6 addresses, their compressed representations, and brief descriptions:

`1080:0:0:0:8:800:200C:417A`	`1080::8:800:200C:417A`	unicast
`FF01:0:0:0:0:0:0:101`	`FF01::101`	multicast
`0:0:0:0:0:0:0:1`	`::1`	loopback
`0:0:0:0:0:0:0:0`	`::`	unspecified
`0:0:0:0:0:0:13.1.68.3`	`::13.1.68.3`	IPv4-compatible
`0:0:0:0:0:FFFF:129.144.52.38`	`::FFFF:129.144.52.38`	IPv4-mapped

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