

Tivoli Decision Support for z/OS
Version 1.8.1

Administration Guide and Reference



Tivoli Decision Support for z/OS
Version 1.8.1

Administration Guide and Reference



Note

Before using this information and the product it supports, read the information in “Notices” on page 535.

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This edition applies to version 1, release 8, modification level 1 of Tivoli Decision Support for z/OS (program number 5698-B06) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Preface

This book provides an introduction to IBM® Tivoli® Decision Support for z/OS® (hereafter referred to as Tivoli Decision Support for z/OS), the administration dialog, and the reporting dialog. It describes procedures for installing the base product and its features and for administering Tivoli Decision Support for z/OS through routine batch jobs and the administration dialog.

The following terms are used interchangeably throughout this book:

- MVS™, OS/390®, and z/OS.
- VM and z/VM®.

Who should read this book

The *Administration Guide and Reference* is for the Tivoli Decision Support for z/OS administrator, the person who initializes the Tivoli Decision Support for z/OS database and customizes and administers Tivoli Decision Support for z/OS.

Readers should be familiar with the following:

- DB2® and its utilities
- Query Management Facility (QMF™), if QMF is used with Tivoli Decision Support for z/OS
- Time Sharing Option Extensions (TSO/E)
- Restructured Extended Executor (REXX) language
- Job control language (JCL)
- Interactive System Productivity Facility/Program Development Facility (ISPF/PDF) and its dialog manager functions

What this book contains

This book is split up into guide and reference information for installing, migrating, and administering TDS for z/OS. The book contains these parts:

- Part 1, "Installing TDS for z/OS," on page 1.
This contains an introduction and installation instructions for Tivoli Decision Support.
- Part 2, "Installation reference," on page 55.
This contains the following:
 - Chapter 3, "Dialog parameters," on page 57
 - Chapter 4, "Overview of Tivoli Decision Support for z/OS objects," on page 71
 - Chapter 5, "Naming convention for Tivoli Decision Support for z/OS definition members," on page 81
- Part 3, "Migrating Tivoli Decision Support for z/OS," on page 83.
This contains migration information from earlier releases.
- Part 4, "Administering Tivoli Decision Support for z/OS," on page 135.
This contains the following:
 - Chapter 11, "Setting up operating routines," on page 137.
 - Chapter 12, "Working with components," on page 181.
 - Chapter 13, "Working with log and record definitions," on page 215.

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- Chapter 14, “Working with tables and update definitions,” on page 233.
- Chapter 15, “Working with the log data manager option,” on page 271.
- Part 5, “Administration reference,” on page 289.
This contains reference information for administering Tivoli Decision Support.

Publications

This section lists publications in the Tivoli Decision Support for z/OS library and any other related documents. It also describes how to access Tivoli publications online, how to order Tivoli publications, and how to submit comments on Tivoli publications.

Tivoli Decision Support for z/OS library

The following documents are available in the Tivoli Decision Support for z/OS library:

- *Administration Guide and Reference*, SH19-6816
Provides information about initializing the Tivoli Decision Support for z/OS database and customizing and administering Tivoli Decision Support for z/OS.
- *AS/400 System Performance Feature Guide and Reference*, SH19-4019
Provides information for administrators and users about collecting and reporting performance data generated by AS/400® systems.
- *CICS Performance Feature Guide and Reference*, SH19-6820
Provides information for administrators and users about collecting and reporting performance data generated by Customer Information and Control System (CICS®).
- *Distributed Systems Performance Feature Guide and Reference*, SH19-4018
Provides information for administrators and users about collecting and reporting performance data generated by operating systems and applications running on a workstation.
- *Guide to Reporting*, SH19-6842
Provides information for users who display existing reports, for users who create and modify reports, and for administrators who control reporting dialog default functions and capabilities.
- *IMS Performance Feature Guide and Reference*, SH19-6825
Provides information for administrators and users about collecting and reporting performance data generated by Information Management System (IMS™).
- *Language Guide and Reference*, SH19-6817
Provides information for administrators, performance analysts, and programmers who are responsible for maintaining system log data and reports.
- *Messages and Problem Determination*, SH19-6902
Provides information to help operators and system programmers understand, interpret, and respond to Tivoli Decision Support for z/OS messages and codes.
- *Network Performance Feature Installation and Administration*, SH19-6901
Provides information for network analysts or programmers who are responsible for setting up the network reporting environment.
- *Network Performance Feature Reference*, SH19-6822
Provides reference information for network analysts or programmers who use the Network Performance feature.
- *Network Performance Feature Reports*, SH19-6821

Provides information for network analysts or programmers who use the Network Performance feature reports.

- *Resource Accounting for z/OS*, SH19-4495

Provides information for users who want to use Tivoli Decision Support for z/OS to collect and report performance data generated by Resource Accounting.

- *System Performance Feature Guide*, SH19-6818

Provides information for performance analysts and system programmers who are responsible for meeting the service-level objectives established in your organization.

- *System Performance Feature Reference Volume I*, SH19-6819

Provides information for administrators and users with a variety of backgrounds who want to use Tivoli Decision Support for z/OS to analyze z/OS, z/VM, zLinux, and their subsystems, performance data.

- *System Performance Feature Reference Volume II*, SH19-4494

Provides information for administrators and users with a variety of backgrounds who want to use Tivoli Decision Support for z/OS to analyze z/OS, z/VM, zLinux, and their subsystems, performance data.

- *Usage and Accounting Collector User Guide*, SC23-7966

Provides information about the functions and features of the Usage and Accounting Collector.

- *IBM Online Library z/OS Software Products Collection Kit*, SK3T-4270

CD containing all z/OS documentation.

Accessing terminology online

The *Tivoli Software Glossary* includes definitions for many of the technical terms related to Tivoli software. The *Tivoli Software Glossary* is available, in English only, at the following Web site:

<http://publib.boulder.ibm.com/tividd/glossary/tivoliglossarymst.htm>

The IBM Terminology Web site consolidates the terminology from IBM product libraries in one convenient location. You can access the Terminology Web site at the following Web address:

<http://www.ibm.com/ibm/terminology>

Using LookAt to look up message explanations

LookAt is an online facility that lets you look up explanations for most of the IBM messages you encounter, as well as for some system abends (an abnormal end of a task) and codes. Using LookAt to find information is faster than a conventional search because in most cases LookAt goes directly to the message explanation.

You can use LookAt from the following locations to find IBM message explanations from z/OS elements and features, z/VM, VSE/ESA, and Clusters for AIX® and Linux:

- The internet. You can access IBM message explanations directly from the LookAt Web site at:

<http://www.ibm.com/eserver/zseries/zos/bkserv/lookat/>

Using LookAt to look up message explanations

- Your z/OS TSO/E host system. You can install code on your z/OS systems to access IBM message explanations, using LookAt from a TSO/E command line (for example, TSO/E prompt, ISPF, or z/OS UNIX System Services running OMVS).
- Your Microsoft Windows workstation. You can install code to access IBM message explanations on the (SK3T-4269), using LookAt from a Microsoft Windows DOS command line.
- Your wireless handheld device. You can use the LookAt Mobile Edition with a handheld device that has wireless access and an Internet browser (for example, Internet Explorer for Pocket PCs, Blazer, or Eudora for Palm OS, or Opera for Linux handheld devices.) Link to the LookAt Mobile Edition from the LookAt Web site.

You can obtain code to install LookAt on your host system or Microsoft Windows workstation from:

- A CD in the *z/OS Collection*, (SK3T-4269)
- The *z/OS and Software Products DVD Collection*, (SK3T-4271)
- The LookAt Web site (click **Download** and then select the platform, release, collection, and location that suit your needs). More information is available in the LOOKAT.ME files available during the download process.

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 software information center Web site. Access the Tivoli software information center by first going to the Tivoli software library at the following Web address:

<http://www.ibm.com/software/tivoli/library/>

Scroll down and click the **Product manuals** link. In the Tivoli Technical Product Documents Alphabetical Listing window, click the Tivoli Decision Support for z/OS link to access the product library at the Tivoli software information center.

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

Ordering publications

You can order many Tivoli publications online at the following Web site:
<http://www.elink.ibm.com/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.

Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully. With this product, you can use assistive technologies to hear and navigate the interface. You can also use the keyboard instead of the mouse to operate all features of the graphical user interface.

For additional information, see the Accessibility Appendix in the *Administration Guide and Reference*.

Tivoli technical training

For Tivoli technical training information, refer to the following IBM Tivoli Education Web site:

<http://www.ibm.com/software/tivoli/education/>

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:

- Searching knowledge bases: You can search across a large collection of known problems and workarounds, Technotes, and other information.
- Obtaining fixes: You can locate the latest fixes that are already available for your product.
- Contacting IBM Software Support: If you still cannot solve your problem, and you need to work with someone from IBM, you can use a variety of ways to contact IBM Software Support.

For more information about these three ways of resolving problems, see Appendix B, “Support information,” on page 359.

Conventions used in this book

This guide uses several conventions for special terms and actions, operating system-dependent commands and paths, and margin graphics.

The following terms are used interchangeably throughout this book:

- MVS, OS/390, and z/OS.
- VM and z/VM.

Typeface conventions

This guide 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**)
- Column headings in a table
- Keywords and parameters in text

Typeface conventions

Italic

- Citations (titles of books, diskettes, and CDs)
- Words defined in text
- Emphasis of words (words as words)
- Letters as letters
- New terms in text (except in a definition list)
- Variables and values you must provide

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

Except for editorial changes, updates to this edition are marked with a vertical bar to the left of the change.

Changes in this edition

This edition is an update of the previous edition of the same book. The changes relate to 1.8.1 GA APAR PM04508 documentation, and subsequent APARs. Some of the major changes are:

Part 1. Chapter 1. Introducing Tivoli Decision Support for z/OS

New section:

- “Creating and updating system tables with a batch job” on page 37

Part 3. Chapter 9. Migrating from 1.8.0.

New job:

- “IMS V7.1 CSQ component migration jobs” on page 99

Except for editorial changes, updates to this edition are marked with a vertical bar [|] to the left of the change.

Part 1. Installing TDS for z/OS

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Chapter 1. Introducing Tivoli Decision Support for z/OS

IBM Tivoli Decision Support for z/OS (hereafter referred to as Tivoli Decision Support for z/OS) enables you to effectively manage the performance of your system by collecting performance data in a DB2 database and presenting the data in a variety of formats for use in systems management. After reading this chapter, you should have a basic understanding of Tivoli Decision Support for z/OS and be ready to install it.

This chapter describes:

- How Tivoli Decision Support for z/OS works
- Introduction to the Usage and Accounting Collector
- Tivoli Decision Support for z/OS features
- The log collector
- The Tivoli Decision Support for z/OS database
- The administration dialog
- The reporting dialog

Introduction to Tivoli Decision Support for z/OS

Tivoli Decision Support for z/OS has two basic functions:

1. Collecting systems management data into a DB2 database
2. Reporting on the data

Tivoli Decision Support for z/OS consists of a base product and several optional features.

The Tivoli Decision Support for z/OS base can generate graphic¹ and tabular reports using systems management data it stores in its DB2 database. The base product includes the administration dialog, the reporting dialog, and the log collector, all of which interact with a standard DB2 database.

Tivoli Decision Support for z/OS (from version 1.8) supports large format input and output sequential datasets (> 65,535 tracks or 4369 cylinders per volume).

Figure 1 shows an overview of Tivoli Decision Support for z/OS.

1. To generate and display graphic reports, Tivoli Decision Support for z/OS uses Graphical Data Display Manager (GDDM). If you are using Tivoli Decision Support for z/OS without QMF, GDDM is not required. If GDDM is not used, all reports are displayed in tabular form.

Introduction to Usage and Accounting Collector

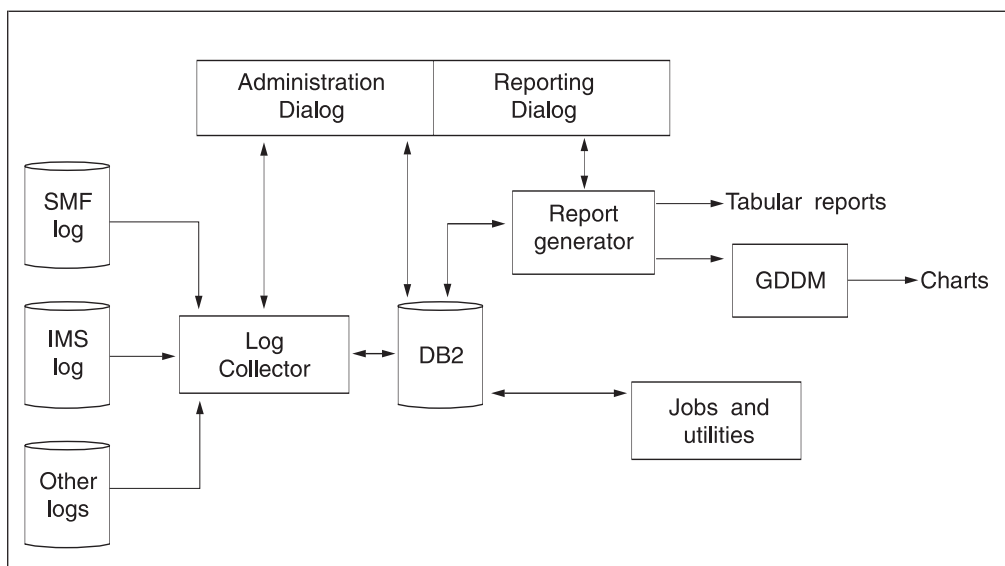


Figure 1. Tivoli Decision Support for z/OS overview

Introduction to Usage and Accounting Collector

The CIMS Lab Mainframe collector is incorporated into Tivoli Decision Support and called the Usage and Accounting Collector. This extracts z/OS accounting data which is used to populate Tivoli Usage and Accounting Manager databases on distributed platforms. The Usage and Accounting Collector does not require DB2 as pre-requisite software on z/OS.

For a description of the Usage and Accounting Collector, see “System Overview” in the *Usage and Accounting Collector User Guide*.

For information on how to install the Usage and Accounting Collector, see “Installing the Usage and Accounting Collector” on page 44.

Note: Spectrum Writer is not included with UAC. Former CIMS Lab customers have a perpetual license for Spectrum Writer and should retain the CIMS Lab data sets so that they can make use of it. For support of Spectrum Writer, contact Pacific Systems. Customers that require access to CIMS Mainframe 12.2.1 should contact IBM support.

Introduction to Tivoli Decision Support for z/OS performance features

Tivoli Decision Support for z/OS performance features provide DB2 table definitions and table update instructions for collecting required systems management data. They also provide predefined queries, forms, and reports for presenting that data.

Resource Accounting for z/OS is part of the Tivoli Decision support base function.

These performance features are additional to the base function:

- AS/400 System Performance feature
- Customer Information Control System (CICS) Performance feature
- Distributed Systems Performance feature
- Information Management System (IMS) Performance feature
- Network Performance feature
- System Performance feature

Introduction to Tivoli Decision Support for z/OS performance features

Use these features to collect and report on systems management data, such as System Management Facility (SMF) data or IMS log data.

Each Tivoli Decision Support for z/OS performance feature has *components*, which are groups of related Tivoli Decision Support for z/OS definitions. For example, the z/OS Performance Management (MVSPM) component consists of everything Tivoli Decision Support for z/OS needs to collect log data and create reports showing z/OS performance characteristics.

Introduction to the log collector

The central part of Tivoli Decision Support for z/OS is the *log collector* program that reads performance data and processes it. Log collector tasks are controlled by log, record, update, and other definitions in Tivoli Decision Support for z/OS system tables. For more information, see “Log collector system tables” on page 291. You can add or modify definitions with both the administration dialog (see “Introduction to the reporting dialog” on page 10) and *log collector language* statements. For information on the administration dialog, see “Introduction to the administration dialog” on page 9.

Tivoli Decision Support for z/OS provides both batch and interactive processing of log collector language statements. For a description of the log collector and the language, refer to the *Language Guide and Reference*.

The log collector's main function is to read data and store it in *data tables* in the Tivoli Decision Support for z/OS database. The log collector groups the data by hour, day, week, or month; computes sums, maximum or minimum values, averages, and percentiles; and calculates resource availability. The *collect process*, also referred to as *collecting data* or as *collect*, includes gathering, processing, and storing the data.

Log definitions

Tivoli Decision Support for z/OS gets performance data about systems from sequential data sets such as those written by SMF under z/OS or by the Information Management System (IMS). These data sets are called *log data sets* or *logs*.

To collect log data, Tivoli Decision Support for z/OS needs log descriptions. The log collector stores descriptions of logs as *log definitions* in the Tivoli Decision Support for z/OS database. All log definitions used by Tivoli Decision Support for z/OS features are provided with the base product.

The administration dialog enables you to create log definitions or modify existing ones. For more information, see Chapter 13, “Working with log and record definitions,” on page 215.

The log collector language statement, DEFINE LOG, also enables you to define logs. For more information, refer to the description of defining logs in the *Language Guide and Reference*.

Record definitions

Each record in a log belongs to one unique record type. Examples of record types include SMF record type 30, generated by z/OS, and SMF record type 110, generated by CICS. For Tivoli Decision Support for z/OS to process a record, the record type must be defined. Detailed record layouts and field formats and offsets

Introduction to the log collector

within a record are described in Tivoli Decision Support for z/OS *record definitions*. All record definitions used by Tivoli Decision Support for z/OS features are provided with the base product.

The administration dialog enables you to create and modify record definitions. For more information, see Chapter 13, “Working with log and record definitions,” on page 215.

The log collector language statement, DEFINE RECORD, also enables you to define records. For more information, refer to the description of defining records in the *Language Guide and Reference*.

Update definitions

Instructions for processing data and inserting it into tables in the Tivoli Decision Support for z/OS database are provided in *update definitions*. Each update definition describes how data from a source (either a specific record type or a row of a table) is manipulated and inserted into a target (a row in a table). The update definitions used by a Tivoli Decision Support for z/OS component are provided with the feature that contains the component.

The administration dialog enables you to create update definitions or modify them. For more information, see “Displaying and modifying update definitions of a table” on page 252.

The log collector language statement, DEFINE UPDATE, also enables you to define updates. For more information, refer to the description of defining updates in the *Language Guide and Reference*.

Table definitions

Tivoli Decision Support for z/OS stores data collected from log data sets in its database tables. It also stores Tivoli Decision Support for z/OS system data in system tables and site-specific operating definitions in lookup and control tables. A *table definition* identifies the database and tablespace in which a table resides, and identifies columns in the table. The table definitions used exclusively by a Tivoli Decision Support for z/OS feature's components are provided with the feature.

The administration dialog enables you to create or modify lookup and data table definitions. For more information, see Chapter 14, “Working with tables and update definitions,” on page 233.

Log and record procedures

Log procedures and *record procedures* are user-exit programs for specific data collection situations. Record procedures work on specific record types. Log procedures work on an entire log. The log and record procedures used by Tivoli Decision Support for z/OS features are provided with the base product.

For information about creating log and record procedure exits, refer to the *Language Guide and Reference*.

The administration dialog enables you to view and modify record procedure definitions, to identify record definitions that require processing by record procedures, and to define record definitions that are output from a record procedure. For more information, see “Viewing and modifying a record procedure definition” on page 229.

Collect process

When definitions exist for a log, its records, its update instructions for record data, and target data tables, you can collect data from the log. You start the collect process in the following ways:

- From the administration dialog
- With the log collector language statement COLLECT

The log collector retrieves stored definitions and performs the data collection that they define.

Figure 2 on page 8 shows the collect process. Tivoli Decision Support for z/OS processes data in these steps:

1. The operating system or other program writes data to a sequential log data set, which is the input to Tivoli Decision Support for z/OS.
2. You initiate the collect either through the dialog or by using a Tivoli Decision Support for z/OS language statement in a job, identifying a specific log type definition.
3. Optionally, the log definition might process the log data with a user-exit program, a log procedure. If the log definition calls a log procedure:
 - a. The log procedure receives each record in the log as input.
 - b. Output from a log procedure varies in format and is usually a record mapped by a Tivoli Decision Support for z/OS record definition.
4. Tivoli Decision Support for z/OS looks for record definitions associated with the log definition in its system tables. It applies those record definitions to specific record types from the log or log procedure.
5. Optionally, a record definition might require processing by a user-exit program, a record procedure. If a record definition requires processing by a record procedure:
 - a. The record procedure receives only a specific record type and is not called for other record types.
 - b. Output from a record procedure varies in format and is usually a record mapped by a Tivoli Decision Support for z/OS record definition.
6. Tivoli Decision Support for z/OS applies a specific update definition to each known record type and performs the data manipulations and database updates as specified.
7. Tivoli Decision Support for z/OS often selects data from lookup tables to fulfill the data manipulations that update definitions require.
8. Tivoli Decision Support for z/OS writes non-summarized and first-level summarized data to data tables specified by the update definitions.
9. Tivoli Decision Support for z/OS uses updated tables as input for updating other, similar tables that are for higher summary levels. If update definitions specify data summarization:
 - a. Tivoli Decision Support for z/OS selects data from a table as required by the update definitions and performs required data summarization.
 - b. Tivoli Decision Support for z/OS updates other data tables as required by update definitions.

(Tivoli Decision Support for z/OS might select data from lookup tables during this process, but this step is not shown in Figure 2 on page 8.)

10. After Tivoli Decision Support for z/OS stores the data from a collect, you can display reports on the data. Tivoli Decision Support for z/OS uses a query to select the data for the report.

Introduction to the log collector

11. Optionally, Tivoli Decision Support for z/OS might select data from lookup tables specified in the query.
12. Tivoli Decision Support for z/OS creates report data, displaying, printing, and saving it as you requested.

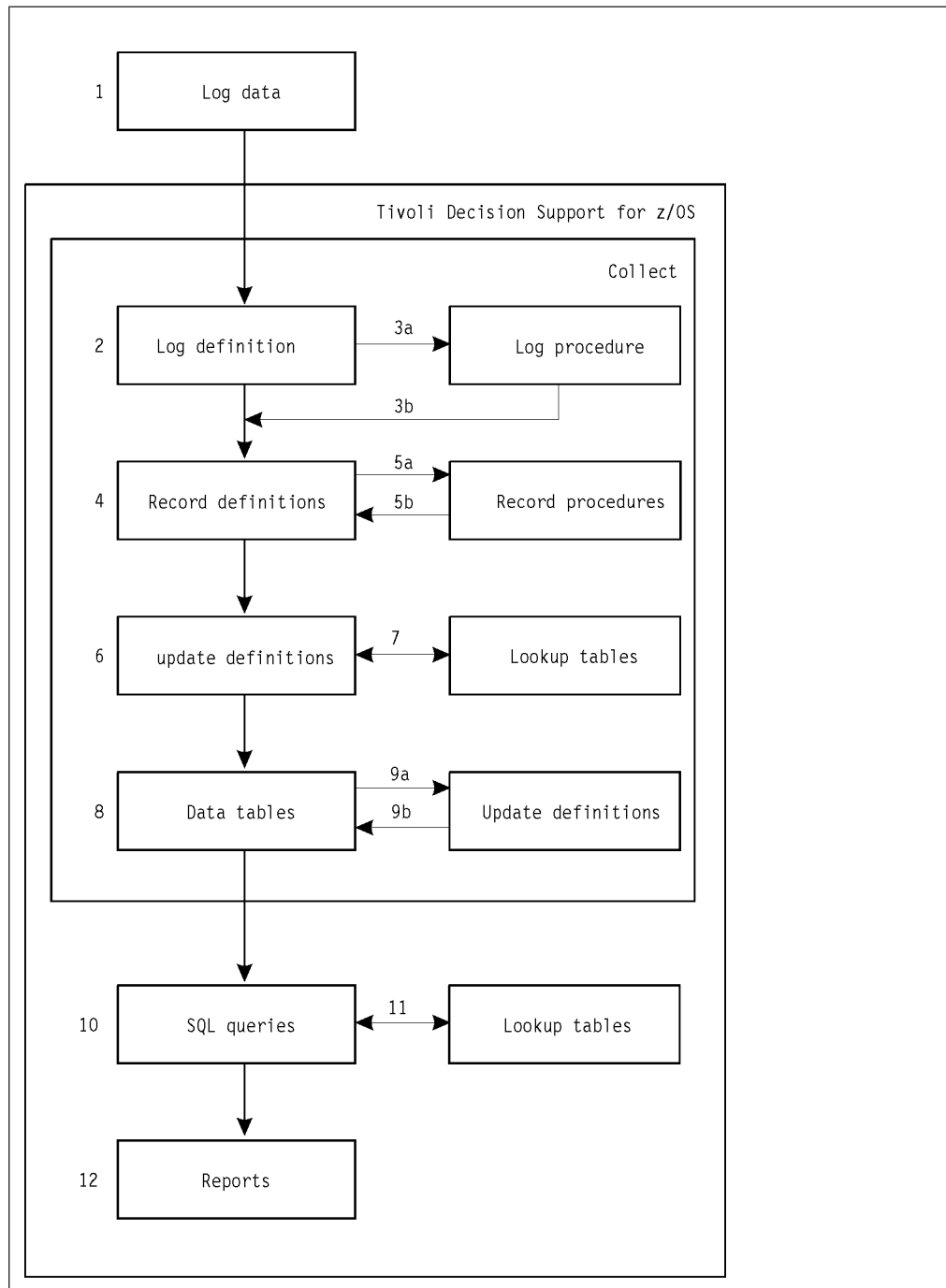


Figure 2. Overview of Tivoli Decision Support for z/OS data flow

For more information about collecting log data, see Chapter 11, "Setting up operating routines," on page 137.

Introduction to the Tivoli Decision Support for z/OS database

The IBM Tivoli Decision Support for z/OS database contains system tables, lookup tables, and collected data. Log collector processing transforms large amounts of log data into useful information about your systems and networks. The volume of this information in the data tables is less than the volume of data read from logs.

Tivoli Decision Support for z/OS stores data that it collects in hourly, daily, weekly, and monthly tables, and in non-summarized tables. It maintains groups of tables that have identical definitions except for their summarization levels. For example, the EREP component of the System Performance feature creates the data tables EREP_DASD_D and EREP_DASD_M, which differ only because one contains daily data and the other, monthly data.

Because the Tivoli Decision Support for z/OS database is relational, you can:

- Combine information from any of your systems into a single report.
- Summarize by system within department, by department within system, or by whatever grouping is required.

You can keep data tables containing historical data for many years without using much space. The database size depends mainly on the number of short-term details you keep in it and not on summarized weekly or monthly data.

The Tivoli Decision Support for z/OS database contains operating definitions in its system tables. These definitions include those for logs, records, updates, and tables shipped with Tivoli Decision Support for z/OS. The database also contains lookup tables of parameters that you supply, such as performance objectives or department and workload definitions for your site.

Introduction to the administration dialog

The administration dialog enables you to do the following tasks:

1. Install and customize Tivoli Decision Support for z/OS and its features.
2. Install and customize Tivoli Decision Support for z/OS components.
3. Work with log and record definitions.
4. Work with tables in the Tivoli Decision Support for z/OS database.
5. Create/run reports.

All of these options are available from the Administration window (Figure 3 on page 10).

Introduction to the reporting dialog

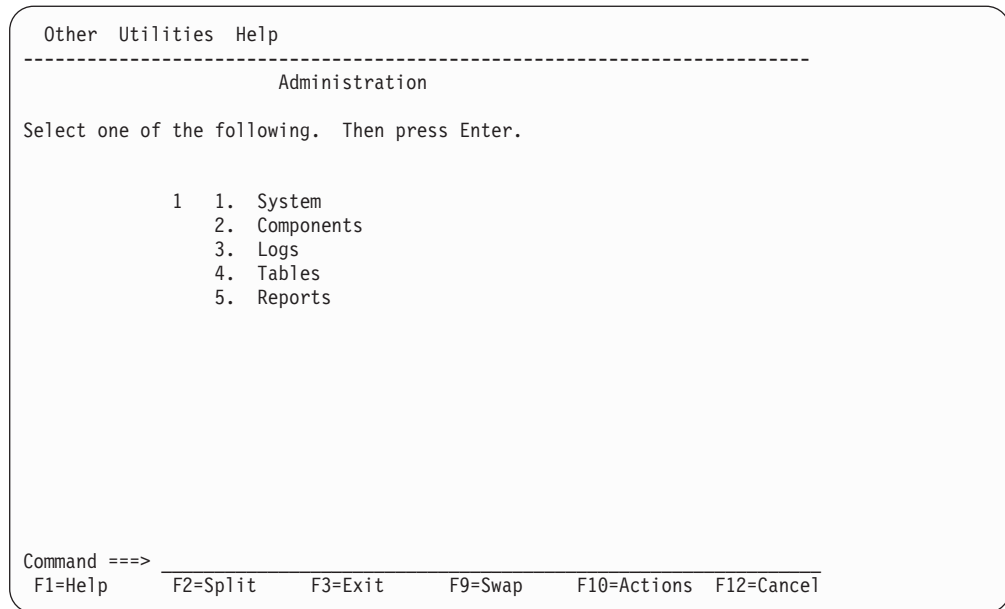


Figure 3. Administration window

Introduction to the reporting dialog

The Tivoli Decision Support for z/OS reporting dialog enables you to display reports that present the log data that has been stored in the Tivoli Decision Support for z/OS database. When you use the reporting dialog to display or print a report, Tivoli Decision Support for z/OS runs a *query* associated with the report to retrieve data from the database, and then displays or prints the results according to an associated *form*. If your installation uses QMF with Tivoli Decision Support for z/OS, Tivoli Decision Support for z/OS starts QMF when you work with queries and reports. Otherwise, Tivoli Decision Support for z/OS's own report generator is used.

Figure 4 on page 11 shows the Reporting dialog.

Options		Help	
Reporting Dialog Defaults			
Type information. Then press Enter to save defaults.			
Entry to dialog . . .	1	1. Display of previous selection	
		2. Display of all reports	
		3. Display of a selected group of reports	
Group ID	_____	+ (required if group selected)	
Group owner	_____	(blank for public group)	
Display of this window	1	1. No display	
		2. Display at exit from dialog	
		3. Display at entry to dialog	
Confirmation of exit	1	1. Yes	
		2. No	
F1=Help F2=Split F4=Prompt F9=Swap F12=Cancel			
Command ==>			
F1=Help F2=Split F3=Exit F9=Swap F10=Actions F12=Cancel			

Figure 4. Introducing the Reporting dialog

When you produce a report, you can specify values for the query that is used to select specific rows of data. You can display, print, or save the retrieved data in either a tabular or a graphic² report format.

A report can consist of these items, which are identified in its *report definition*:

- A query for selecting data (required)
- A form to use to format the data and specify report headings and totals
- Graphical Data Display Manager (GDDM) format for a graphic report
- Report attributes (for creating logical groups of reports)
- Report groups to which the report belongs
- Variables in the report

When installing a component, you install a comprehensive set of predefined report queries, forms, and, optionally, GDDM formats for the component. The reporting dialog enables you to:

- Define new report definitions or modify existing ones
- Define new queries and forms or modify existing ones, using QMF or Tivoli Decision Support for z/OS's built-in report generator
- Display reports
- Define reports for batch execution

The *Guide to Reporting* describes the host reporting dialog. For a description of using the Common User Access (CUA) interface presented in Tivoli Decision Support for z/OS windows and helps, refer to the "Getting Started" section of that book. That chapter also describes using BookManager[®] to link to Tivoli Decision Support for z/OS online books from dialog windows.

2. To generate and display graphic reports, Tivoli Decision Support for z/OS uses Graphical Data Display Manager (GDDM). If you are using Tivoli Decision Support for z/OS without QMF, GDDM is not required. If GDDM is not used, all reports are displayed in tabular form.

Chapter 2. Installing Tivoli Decision Support for z/OS

This chapter describes how to install Tivoli Decision Support for z/OS. The process starts *after* a system programmer has performed the SMP/E installation. The SMP/E installation of the Tivoli Decision Support for z/OS base and its features is described in the *Tivoli Decision Support for z/OS Program Directory*. The installation prerequisites from the *Tivoli Decision Support for z/OS Program Directory* are summarized in this chapter.

This chapter describes the following installation tasks:

- Step 1: Reviewing the results of the SMP/E installation
- Step 2: Setting up security
- Step 3: Initializing the DB2 database
- Step 4: Preparing the dialog and updating the dialog profile
- Step 5: Setting personal dialog parameters
- Step 6: Setting up QMF
- Step 7: Creating or updating system tables
- Step 8: Setting up BookManager
- Step 9: Customizing JCL
- Step 10: Testing the installation of the Tivoli Decision Support for z/OS base
- Step 11: Reviewing DB2 parameters
- Step 12: Installing components

You can also use this information to install other Tivoli Decision Support for z/OS systems or to install features that you did not install with the Tivoli Decision Support for z/OS base. It also describes installing the Usage and Accounting Collector.

Installation prerequisites

This section lists the hardware and software prerequisites.

Hardware prerequisites

Tivoli Decision Support for z/OS can run in any hardware environment that supports the required software.

Software prerequisites

Since Tivoli Decision Support for z/OS version 1.8, the Usage and Accounting Collector (formerly CIMS mainframe) has been included in the base feature of the product. The Usage and Accounting Collector has different software pre-requisites to the original or "classic" version of Tivoli Decision Support for z/OS.

The minimum requisites for Tivoli Decision Support for z/OS (excluding Usage and Accounting Collector) to install successfully are:

Program number	Product name and minimum VRM/service level
5625 – DB2	IBM DB2 Universal Database™ for z/OS Version 8.1 New Function Mode

Installing Tivoli Decision Support for z/OS

Program number	Product name and minimum VRM/service level
5694-A01	z/OS Version 1.8

The functional requisites that Tivoli Decision Support for z/OS needs at run time for its specific functions to work are:

Product number	Product name and minimum VRM/service level	Function
5625-DB2	Query Management Facility (QMF) for z/OS Version 8	Generate and view reports
5695-167	Graphical Data Display Manager (GDDM) Version 3.2	Display reports in graphical format
5668-812	GDDM – PGF Version 2.1.3	Transform reports into graphical format
5698-SD9	Tivoli Information Management for z/OS Version 7.1	Generate problem reports from Tivoli Decision Support for z/OS data
5695-046	BookManager READ/MVS Release 3	Access Tivoli Decision Support for z/OS online books
5722-SS1	OS/400® Version 5.1	AS/400 system performance
5685-108	NetView® FTP Version 2.1	AS/400 system performance
5733-196	NetView FTP/400 Version 3	AS/400 system performance
5724-B90	DB2 High Performance Unload (HPU) Version 2.1	Unload DB2 data enhancement
Any one of the following:		
5765-E61	AIX 5L™ Version 5.1	Distributed Systems
	HP – UX** Version 11-i	Distributed Systems
	Sun Solaris Version 9	Distributed Systems
	Linux RedHat Version 7.1 (Kernel 2.4.2)	Distributed Systems
	Linux SUSE Version 7.1 (Kernel 2.4.0)	Distributed Systems
	SLES 8 for zSeries	zLinux Systems
	RedHat Enterprise Linux 3 for zSeries	zLinux Systems

The minimum requisites for the Usage and Accounting Collector to install successfully are:

Program number	Product name and minimum VRM/service level
5694-A01	z/OS Version 1.8

Considerations when migrating from an earlier release or modification level

If you have already installed Tivoli Decision Support for z/OS, and are migrating to a new release or modification level, there are changes to some of the installation steps.

Migrating to a new release or modification level includes:

1. Migrating the Tivoli Decision Support for z/OS base to the latest level.

Before you start migrating the Tivoli Decision Support for z/OS base, read the information in “Migrating the product base to the latest level” and the rest of this chapter.

2. Migrating components. This includes:
 - Identifying and saving modified objects for Tivoli Decision Support for z/OS components that you have already installed
 - Migrating the Tivoli Decision Support for z/OS components you have already installed to the latest Tivoli Decision Support for z/OS feature level
 - Reintroducing the changes you made to saved component objects, to the latest level of these objects

Before you start migrating components, read through the information in Chapter 6, “Migrating components from earlier releases of Tivoli Decision Support for z/OS,” on page 85. Migration considerations included in other sections of the book are marked *Migration considerations*.

Migrating the product base to the latest level

When migrating from an earlier release or modification level of Tivoli Decision Support for z/OS, perform these installation steps:

- “Step 1: Reviewing the results of the SMP/E installation.”
- “Step 3: Initializing the DB2 database” on page 20.
- “Step 4: Preparing the dialog and updating the dialog profile” on page 30.
- “Step 5: Setting personal dialog parameters” on page 32.
- “Step 6: Setting up QMF” on page 35.
- “Step 7: Creating or updating system tables” on page 35.
- “Step 8: Setting up BookManager” on page 37.
- “Step 9: Customizing JCL” on page 38.
- “Step 10: Testing the installation of the Tivoli Decision Support for z/OS base” on page 40.

Step 1: Reviewing the results of the SMP/E installation

The following default data set names are created during SMP/E installation of the Tivoli Decision Support for z/OS base and its features:

Tivoli Decision Support for z/OS data sets

Data set name	Description
DRL181.SDRLCNTL	Sample jobs and DB2 DBRM module
DRL181.SDRLDEFS	Definitions of records, tables, and other objects
DRL181.SDRLEXEC	REXX execs
DRL181.SDRLLOAD	Load modules
DRL181.SDRLSKEL	ISPF skeletons
DRL181.SDRLA400	OS/400
DRL181.SDRLWS	Workstation

Local data sets

Data set name	Description
&HLQ.LOCAL.ADMCFORM	Local GDDM-Presentation Graphics Facility (GDDM-PGF) interactive chart utility (GDDM/ICU) formats
&HLQ.LOCAL.CHARTS	Saved graphic reports (GDDM ADMGDF format)
&HLQ.LOCAL.CNTL	Local Tivoli Decision Support for z/OS jobs

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&HLQ.LOCAL.DEFS	Local Tivoli Decision Support for z/OS definitions
&HLQ.LOCAL.EXEC	Local Tivoli Decision Support for z/OS execs
&HLQ.LOCAL.MESSAGES	Messages sent through the dialog
&HLQ.LOCAL.REPORTS	Saved tabular reports
&HLQ.LOCAL.USER.DEFS	Local Tivoli Decision Support for z/OS user/alter definitions

Language-dependent Tivoli Decision Support for z/OS data sets

The last three letters in these data set names indicate the language version. *xxx* is ENU for English and JPN for Japanese. For example, SDRLRENU contains the English report definition files. The corresponding Japanese version is SDRLRJPN.

Data set name	Description
DRL181.SDRLF <i>xxx</i>	GDDM/ICU formats
DRL181.SDRLM <i>xxx</i>	ISPF messages
DRL181.SDRLP <i>xxx</i>	ISPF windows
DRL181.SDRLR <i>xxx</i>	Definitions of reports
DRL181.SDRLT <i>xxx</i>	ISPF tables

Step 2: Setting up security

Migration considerations - Skip this step if you are migrating from a previous release or modification level of Tivoli Decision Support for z/OS.

This section describes how you can protect Tivoli Decision Support for z/OS data sets and the Tivoli Decision Support for z/OS database.

Use RACF® or a similar product to protect the Tivoli Decision Support for z/OS data sets. Tivoli Decision Support for z/OS administrators and users must have read access to the DRL181 data sets and update access to the local data sets.

The data in the Tivoli Decision Support for z/OS database is protected by DB2. Tivoli Decision Support for z/OS administrators and users must be granted DB2 privileges to be able to access the data, as follows:

- Administrators need SYSADM (system DB2 administrator authority for the Tivoli Decision Support for z/OS database. They also need the ability to use the prefixes of Tivoli Decision Support for z/OS tables (DRLSYS and DRL) as authorization IDs in DB2.
- Users need read access to the tables they use to produce reports, and update access to some of the Tivoli Decision Support for z/OS system tables (to be able to create their own reports).
- The user IDs that you use for Tivoli Decision Support for z/OS production jobs, such as collect, need DBADM authority.

This step describes two ways you can define authorities for Tivoli Decision Support for z/OS administrators and users:

- Using secondary authorization IDs
- Without secondary authorization IDs

Find out through the DB2 system administrator whether secondary authorization IDs are used on your DB2 system.

Note: If you are defining authorities without using secondary user IDs, the installation process is slightly different. See “Tivoli Decision Support for z/OS security without secondary authorization IDs” on page 18 for more information.

Tivoli Decision Support for z/OS security using secondary authorization IDs

The most efficient way to give users privileges is to use secondary authorization IDs in DB2. With this method, privileges are granted to group IDs rather than user IDs, and all users who can use these secondary authorization IDs get the privileges.

The secondary authorization IDs a user has access to can be controlled in different ways. If you have RACF installed, users can usually use the RACF groups that they are connected to as secondary authorization IDs. If RACF is not installed, secondary authorization IDs can be assigned by the DB2 authorization exit.

This section describes how to define the secondary authorization IDs using RACF. If you assign secondary authorization IDs in another way, consult your DB2 system administrator.

What to do

If you use RACF group IDs as DB2 secondary authorization IDs, your RACF administrator should:

1. Create three RACF groups. The default RACF group IDs are DRL, DRLSYS, and DRLUSER.

The IDs DRL and DRLSYS are also prefixes for the Tivoli Decision Support for z/OS DB2 tables. If you plan to change the prefixes for Tivoli Decision Support for z/OS system tables and views (DRLSYS) or for other Tivoli Decision Support for z/OS tables and views (DRL) in “Step 3: Initializing the DB2 database” on page 20, use your values as RACF group IDs.

If all users on your system need access to the Tivoli Decision Support for z/OS data, you do not need the DRLUSER group. If different users need access to different sets of tables, you can define several RACF group IDs, such as DRLMVS and DRLCICS, instead of the DRLUSER group.

You can use either RACF commands or RACF dialogs to specify security controls. These commands are samples. You may have to specify additional operands to comply with the standards of your organization.

```
ADDGROUP DRL DATA ('Tivoli Decision Support for z/OS TABLES')
ADDGROUP DRLSYS DATA ('Tivoli Decision Support for z/OS
                        SYSTEM TABLES')
ADDGROUP DRLUSER DATA ('Tivoli Decision Support for z/OS USERS')
```

2. Connect Tivoli Decision Support for z/OS administrators to all three groups. Use RACF commands or RACF dialogs to connect user IDs to a RACF group. These commands are samples.

```
CONNECT (admin_user_ID) GROUP(DRL)
CONNECT (admin_user_ID) GROUP(DRLSYS)
CONNECT (admin_user_ID) GROUP(DRLUSER)
```

Note: VIEWER users need to be connected to the above three groups (DRL , DRLSYS , DRLUSER).

3. Connect Tivoli Decision Support for z/OS (not VIEWER) users to the DRLUSER group only.

Installing Tivoli Decision Support for z/OS

Use RACF commands or RACF dialogs to connect user IDs to a group. This command is a sample.

```
CONNECT (user_ID1 user_ID2 ...) GROUP(DRLUSER)
```

4. If you use different RACF group IDs, be sure to use them throughout all the steps of this chapter.
5. If you use other group IDs than DRLUSER, you must modify the following fields in the Dialog Parameters window (see Figure 10 on page 34):

Users to grant access to

Users to grant access to must be specified when you create the system tables and when you install components. When you create the system tables it should contain all group IDs that should have access to Tivoli Decision Support for z/OS. To grant access to all users, specify PUBLIC.

When you install components, Users to grant access to should contain the group IDs that should have access to the component.

SQL ID to use (in QMF)

If QMF is used with Tivoli Decision Support for z/OS in your installation, the SQL ID to use in QMF must be specified by each user. It should be one of the groups the user is connected to or the user's own user ID.

6. If you use different RACF group IDs, you can make your RACF group IDs the default for all Tivoli Decision Support for z/OS users. Edit the Tivoli Decision Support for z/OS initialization exec DRLFPROF, described in “Step 4: Preparing the dialog and updating the dialog profile” on page 30. Variables def_syspref, def_othtbpfx, def_iduser1, and def_idsqluser may need to be changed, depending on the changes you made to the IDs.

Tivoli Decision Support for z/OS security without secondary authorization IDs

If you are not using secondary authorization IDs in DB2, the installation process is slightly different. See “Installation steps when secondary user IDs are not used” on page 19 for more information.

If you are not using secondary authorization IDs in DB2, all privileges must be granted to individual users:

1. Grant authority to the Tivoli Decision Support for z/OS administrators in one of two ways:
 - Create all tables and views with the administrator's user ID as prefix. That is, replace DRLSYS and DRL with a user ID. Only one Tivoli Decision Support for z/OS administrator is possible.
This is the recommended way.
 - Grant SYSADM authority to all Tivoli Decision Support for z/OS administrators.
2. Give authority to the Tivoli Decision Support for z/OS users in one of two ways. This is done in step 5 (see “Step 5: Setting personal dialog parameters” on page 32 for more information).
 - Specify a list of up to eight user IDs in the field, Users to grant access to, in the Dialog Parameters window (Figure 10 on page 34).
 - Specify PUBLIC in the Users to grant access to field. This gives all users access to Tivoli Decision Support for z/OS data. This is easier to maintain than a list of user IDs.

For both cases, each user must specify his own user ID in the SQL ID to use (in QMF) field in the Dialog Parameters window, if QMF is used with Tivoli Decision Support for z/OS in your installation.

You must specify user IDs in the field Users to grant access to before you create the system tables. It is also used when you install components.

Installation steps when secondary user IDs are not used

Follow this example if you have several administrators. In the example, we assume that there are three administrators:

- ADMIN1 is the user who creates system tables.
- ADMIN2 and ADMIN3 are the other administrators.

When performing the installation, note these items:

- **“Step 3: Initializing the DB2 database” on page 20**
Change DRL and DRLSYS in the DRLJDBIN job to ADMIN1, ADMIN2, and ADMIN3.
- **“Step 4: Preparing the dialog and updating the dialog profile” on page 30**
No changes.
- **“Step 5: Setting personal dialog parameters” on page 32**
Use ADMIN1 as prefix for system tables, ADMIN2 and ADMIN3 as prefix for other tables. For Users to grant access to, specify ADMIN1, ADMIN2, ADMIN3, and all user IDs for the end users.
For SQL ID to use (in QMF), specify ADMIN1 (if QMF is used with Tivoli Decision Support for z/OS in your installation).
- **“Step 6: Setting up QMF” on page 35**
No changes.
- **“Step 7: Creating or updating system tables” on page 35**
The system tables should be created with the prefix ADMIN1. Otherwise, there are no changes compared with the information in this step.
- **“Step 8: Setting up BookManager” on page 37**
No changes.
- **“Step 9: Customizing JCL” on page 38**
No changes.
- **“Step 10: Testing the installation of the Tivoli Decision Support for z/OS base” on page 40 and “Step 12: Installing components” on page 43**
If one of the secondary administrators, for example ADMIN2, wants to install the Sample component or any other component, that administrator has to change the dialog parameters before the installation to use these settings:

Prefix for system tables	ADMIN1
Prefix for other tables	ADMIN2
SQL ID to use (in QMF)	ADMIN2

When the component is installed by ADMIN2, the installed DB2 objects are created with the prefix ADMIN2.

All DB2 objects can be read by all administrators, but an object can be created only with the current administrator's primary user ID.

To make your changes the default for all Tivoli Decision Support for z/OS users, you must change the Tivoli Decision Support for z/OS initialization exec DRLFPROF as described in “Step 4: Preparing the dialog and updating the dialog profile” on page 30.

Step 3: Initializing the DB2 database

You must use Tivoli Decision Support for z/OS to perform several DB2-related installation tasks, which are described below.

Note: Tivoli Decision Support for z/OS is an update/insert intensive DB2 application. This means that during a collect, Tivoli Decision Support for z/OS adds and updates many rows in the Tivoli Decision Support for z/OS DB2 tables. Normal DB2 processing logs these changes. Your DB2 administrator should verify that the capacity of the DB2 logs is sufficient to cope with the increase in logging activity.

If your operational DB2 system is constrained, you might consider implementing another (analytical) DB2 system for the Tivoli Decision Support for z/OS environment.

Initializing DB2 database when installing Tivoli Decision Support for z/OS for first time

If you are installing Tivoli Decision Support for z/OS for the first time, follow the instructions below to run the DRLJDBIN job:

1. Copy member DRLJDBIN in the DRL181.SDRLCNTL library to the &HLQ.LOCAL.CNTL library. DRLJDBIN appears in Figure 5 on page 21 and Figure 1 on page 4.
2. Modify the job card statement to run your job.
3. Customize the job for your site.

Follow the instructions in the job prolog to customize it for your site.

Notes:

- a. A person with DB2 SYSADM authority (or someone with the authority to create plans, storage groups, and databases, and who has access to the DB2 catalog) must submit the job.
 - b. Do not delete steps from DRLJDBIN. Even if you have DBADM authorization, you must grant DRL and DRLSYS authority for the Tivoli Decision Support for z/OS database.
4. Submit the job to:

- Bind the DB2 plan used by Tivoli Decision Support for z/OS.

The plan does not give privileges (it contains only dynamic SQL statements) thereby making it safe to grant access to all users (PUBLIC).

If you change the name of the plan from the default (DRLPLAN) then you must update the def_db2plan variable in DRLFPROF to specify the new plan name. You also need to modify any sample jobs that execute DRLPLC, DRL1PRE or DRLPLOGM to specify the PLAN parameter with the new plan name. Changing the plan name allows you to run versions of the TDS environment with incompatible DBRMs in the same DB2 subsystem.

- Create the DB2 storage group and database used by Tivoli Decision Support for z/OS.
- Grant DB2 DBADM authority as database administrators of DRLDB to DRL and DRLSYS.
- Create views on the DB2 catalog for Tivoli Decision Support for z/OS dialog functions for users who do not have access to the DB2 catalog.

DRLJDBIN job

```

//DRLJDBIN JOB (ACCT#),'DATABASE INIT'
//*****
//*                                                                 *
//* LICENSED MATERIALS - PROPERTY OF IBM                          *
//*                                                                 *
//* 5698-B06 Copyright IBM Corporation 1992, 2009                 *
//* SEE COPYRIGHT INSTRUCTIONS.                                    *
//*                                                                 *
//*****
//* NAME: DRLJDBIN                                                *
//*                                                                 *
//* STATUS: Tivoli Decision support for zOS 1.8.1                  *
//*                                                                 *
//* FUNCTION:                                                      *
//* 1. BIND THE TDSz DB2 PLAN.                                     *
//* 2. CREATE STORAGE GROUP AND DATABASE FOR                       *
//*    Tivoli Decision Support for zOS 1.8.1                       *
//* 3. CREATE VIEWS ON THE DB2 CATALOG.                            *
//*                                                                 *
//* NOTES:                                                         *
//* BEFORE YOU SUBMIT THE JOB, DO THE FOLLOWING:                  *
//*                                                                 *
//* 1. CHECK THAT THE DB2 AND TDSz DATA SET                       *
//*    NAMES ARE CORRECT. SEARCH FOR db2loadlibrary AND           *
//*    DRLvrm TO FIND THE DATASET NAMES.                          *
//*                                                                 *
//* 2. IF THE DB2 SUBSYSTEM NAME IS NOT DSN, CHANGE               *
//*    DSN SYSTEM(DSN) TO DSN SYSTEM(SUBSYSTEM-NAME).            *
//*                                                                 *
//* 3. IF YOU WANT TO USE A PLAN NAME OTHER THAN DRLPLAN,         *
//*    CHANGE DRLPLAN IN THE BIND PLAN AND GRANT EXECUTE          *
//*    STATEMENTS TO REFER TO THE CHOSEN PLAN NAME.               *
//*    IF YOU CHANGE THE PLAN NAME YOU SHOULD CHANGE THE          *
//*    def_db2plan SPECIFICATION IN DRLFPROF, AND MODIFY           *
//*    THE PLAN= PARAMETER WHEREVER IT OCCURS IN SAMPLE           *
//*    BATCH JOBS YOU CUSTOMIZE TO USE THE NEW PLAN NAME.         *
//*                                                                 *
//* 4. IF YOU ARE NOT USING DB2 8.1, CHANGE DSNTIA81 TO           *
//*    THE NAME OF THE CORRESPONDING PLAN FOR YOUR RELEASE.       *
//*                                                                 *
//* 5. IN THE CREATE STOGROUP STATEMENT, SUPPLY NAMES FOR         *
//*    THE VOLUME(S) AND CATALOG TO USE.                           *
//*    IF YOU ALREADY HAVE A STORAGE GROUP DEFINED,               *
//*    REMOVE THE CREATE STOGROUP STATEMENT AND CHANGE            *
//*    THE CREATE DATABASE STATEMENT TO USE THIS STORAGE          *
//*    GROUP.                                                       *
//*                                                                 *
//* 6. IF YOU ARE USING A DATABASE NAME THAT IS DIFFERENT        *
//*    FROM THE DEFAULT (DRLDB), CHANGE ALL OCCURRENCES OF        *
//*    DRLDB TO THE NEW NAME. USE THE COMMAND:                     *
//*    CHANGE DRLDB DATABASE-NAME WORD ALL                          *
//*                                                                 *
//* 7. IF YOU WANT TO USE A DEFAULT BUFFER POOL FOR THE           *
//*    TABLE SPACES CREATED WITHIN THE DATABASE DIFFERENT       *
//*    FROM BPO, CHANGE THE BUFFERPOOL PARAMETER IN THE           *
//*    CREATE DATABASE STATEMENT AS DESIRED.                       *

```

Figure 5. DRLJDBIN job (member of DRL181.SDRLCNTL) (Part 1 of 4)

Installing Tivoli Decision Support for z/OS

```
/** *
/** 8. IF YOU WANT TO USE A DEFAULT BUFFER POOL FOR THE *
/** INDEXES CREATED WITHIN THE DATABASE, YOU CAN SPECIFY *
/** IT WITH THE ADDITIONAL PARAMETER OF THE CREATE *
/** DATABASE STATEMENT, VALID FROM DB2 V6 ON. *
/** THE PARAMETER IS INDEXBP. *
/** *
/** 9. IF YOU ARE USING A TABLE PREFIX THAT IS DIFFERENT *
/** FROM THE DEFAULT (DRL), CHANGE ALL OCCURRENCES OF *
/** THE WORD DRL TO THE NEW NAME. USE THE COMMAND: *
/** CHANGE DRL TABLE-PREFIX WORD ALL *
/** *
/** 10. IF YOU ARE USING A SYSTEM TABLE PREFIX THAT IS *
/** DIFFERENT FROM THE DEFAULT (DRLSYS), CHANGE ALL *
/** OCCURRENCES OF DRLSYS TO THE NEW NAME. *
/** USE THE COMMAND: *
/** CHANGE DRLSYS SYSTEM-TABLE-PREFIX WORD ALL *
/** *
/** 11. IF YOU ARE USING A USER GROUP THAT IS *
/** DIFFERENT FROM THE DEFAULT (DRLUSER), CHANGE ALL *
/** OCCURRENCES OF DRLUSER TO THE NEW NAME. *
/** USE THE COMMAND: *
/** CHANGE DRLUSER USER_GROUP WORD ALL *
/** *
/** 12. IF YOU ARE MIGRATING FROM A PREVIOUS - PQ49985 *
/** RELEASE OF DB2 TO A NEW ONE, YOU NEED TO: - PQ61494 *
/** - PTR537 *
/** (A) UNLOAD (IN ORDER TO SAVE DATA) - PQ61494 *
/** (B) DROP THE EXISTING OBJECTS - PQ61494 *
/** BEFORE CREATE STATEMENTS - PQ61494 *
/** (C) DATA SHOULD BE RELOADED INTO - PQ61494 *
/** NEWLY CREATED OBJECTS. - PQ61494 *
/** *
/** CHANGE ACTIVITY: *
/** 01 2001-08-24 BB - PQ49985 : *
/** ADDED NOTE (POINT 11) IN ORDER TO *
/** NOTIFY THAT, FOR MIGRATIONS, *
/** EXISTING OBJECTS NEED BE DROPPED *
/** BEFORE CREATE *
/** 02 2002-05-27 BB - PQ61494 : *
/** CHANGED NOTE (POINT 11) IN ORDER TO *
/** NOTIFY THAT, FOR MIGRATIONS, *
/** EXISTING OBJECTS NEED BE UNLOADED *
/** BEFORE DROP; ALSO, AFTER CREATE, *
/** THEY NEED BE RELOADED. *
/** 03 2003-03-07 RV - SPECIFY THAT THE COMMENTS ADDED BY *
/** APARS PQ49985 AND PQ61494 REFER TO *
/** MIGRATION TO A NEW RELEASE OF DB2 *
/** PTR537 *
/** *
```

Figure 5. DRLJDBIN job (member of DRL181.SDRLCNTL) (Part 2 of 4)

Installing Tivoli Decision Support for z/OS

```
/** CHANGE ACTIVITY: *
/** CHANGE FLAG TYPE DATE DESCRIPTION *
/** -----*
/** $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and *
/** DB2 dataset names. *
/** $00=PK54663, TDS180,15/10/07,ADL(MG): Add CCSID EBCIDC to *
/** CREATE DATABASE and Encoding*
/** EBCDIC to BIND PLAN *
/** $D1=DCR116, TDS181,15/05/09,ADL(RC): Update TDS Version *
/** *
/*******
//DBINIT EXEC PGM=IKJEFT01
//STEPLIB DD DISP=SHR,DSN=db2loadlibrary
//DBRMLIB DD DISP=SHR,DSN=DRLvrm.SDRLCNTL(DRLPSQLX)
//SYSPRINT DD SYSOUT=*
//SYSTSPRT DD SYSOUT=*
//SYSTSIN DD *
DSN SYSTEM(DSN)
BIND PLAN(DRLPLAN) MEMBER(DRLPSQLX) -
ACTION(REPLACE) RETAIN ISOLATION(CS) -
ENCODING (EBCDIC)

RUN PROGRAM(DSNTIAD) PLAN(DSNTIA81) -
LIB('DSN810.RUNLIB.LOAD')
END
//SYSIN DD *

GRANT EXECUTE ON PLAN DRLPLAN TO PUBLIC;

CREATE STOGROUP DRLSG
VOLUMES (VOLUME1, VOLUME2, ...)
VCAT CATALOG-NAME;

GRANT USE OF STOGROUP DRLSG TO DRL, DRLSYS WITH GRANT OPTION;

CREATE DATABASE DRLDB
BUFFERPOOL BP0
CCSID EBCDIC
STOGROUP DRLSG;

GRANT DBADM ON DATABASE DRLDB TO DRL, DRLSYS WITH GRANT OPTION;

CREATE VIEW DRLSYS.DRLTABLES AS
SELECT * FROM SYSIBM.SYSTABLES
WHERE CREATOR IN ('DRL','DRLSYS');
GRANT SELECT ON DRLSYS.DRLTABLES TO DRL, DRLUSER;
```

Figure 5. DRLJDBIN job (member of DRL181.SDRLCNTL) (Part 3 of 4)

Installing Tivoli Decision Support for z/OS

```
CREATE VIEW DRLSYS.DRLCOLUMNS AS
  SELECT * FROM SYSIBM.SYSCOLUMNS
    WHERE TBCreator IN ('DRL','DRLSYS');
GRANT SELECT ON DRLSYS.DRLCOLUMNS TO DRL, DRLUSER;

CREATE VIEW DRLSYS.DRLTABLESPACE AS
  SELECT * FROM SYSIBM.SYSTABLESPACE
    WHERE DBNAME = 'DRLDB';
GRANT SELECT ON DRLSYS.DRLTABLESPACE TO DRL, DRLUSER;

CREATE VIEW DRLSYS.DRLTABLEPART AS
  SELECT * FROM SYSIBM.SYSTABLEPART
    WHERE DBNAME = 'DRLDB';
GRANT SELECT ON DRLSYS.DRLTABLEPART TO DRL;

CREATE VIEW DRLSYS.DRLTABAUTH AS
  SELECT * FROM SYSIBM.SYSTABAUTH
    WHERE TCreator IN ('DRL','DRLSYS');
GRANT SELECT ON DRLSYS.DRLTABAUTH TO DRL;

CREATE VIEW DRLSYS.DRLVIEWS AS
  SELECT * FROM SYSIBM.SYSVIEWS
    WHERE Creator IN ('DRL','DRLSYS');
GRANT SELECT ON DRLSYS.DRLVIEWS TO DRL;

CREATE VIEW DRLSYS.DRLINDEXES AS
  SELECT * FROM SYSIBM.SYSINDEXES
    WHERE Creator IN ('DRL','DRLSYS');
GRANT SELECT ON DRLSYS.DRLINDEXES TO DRL, DRLUSER;

CREATE VIEW DRLSYS.DRLINDEXPART AS
  SELECT * FROM SYSIBM.SYSINDEXPART
    WHERE IXCreator IN ('DRL','DRLSYS');
GRANT SELECT ON DRLSYS.DRLINDEXPART TO DRL;

CREATE VIEW DRLSYS.DRLKEYS AS
  SELECT * FROM SYSIBM.SYSKEYS
    WHERE IXCreator IN ('DRL','DRLSYS');
GRANT SELECT ON DRLSYS.DRLKEYS TO DRL;

/*
```

Figure 5. DRLJDBIN job (member of DRL181.SDRLCNTL) (Part 4 of 4)

Initializing DB2 database when migrating to Tivoli Decision Support for z/OS 1.8.1

A new DBRM is supplied with Tivoli Decision Support for z/OS Version 1.8.1. Therefore, if you are migrating to Tivoli Decision Support for z/OS Version 1.8.1, follow these instructions to rebind the plan to the new DBRM:

1. Copy member DRLJDBND in the DRL181.SDRLCNTL library to the &HLQ.LOCAL.CNTL library. DRLJDBND appears in “DRLJDBND job” on page 26.
2. Modify the job card statement to run your job.
3. Customize the job for your site. Follow the instructions in the job prolog to customize it for your site.

Note: A person with DB2 SYSADM authority (or someone with the authority to bind plans) must submit the job.

4. Submit the job to rebind the DB2 plan used by Tivoli Decision Support for z/OS.

| If you change the name of the plan from the default (DRLPLAN) then you must
| update the def_db2plan variable in DRLFPROF to specify the new plan name. You
| will also need to modify any sample jobs that execute DRLPLC, DRL1PRE or
| DRLPLOGM to specify the PLAN parameter with the new plan name. Changing
| the plan name allows you to run versions of the TDS environment with
| incompatible DBRMs in the same DB2 subsystem.

Installing Tivoli Decision Support for z/OS

DRLJDBND job

```
//DRLJDBND JOB (ACCT#),'PLAN BIND'
//*****
//*
//* LICENSED MATERIALS - PROPERTY OF IBM
//*
//* 5698-B06 Copyright IBM Corporation 2009
//* SEE COPYRIGHT INSTRUCTIONS.
//*
//*****
//*
//* NAME: DRLJDBND
//*
//* STATUS: Tivoli Decision support for zOS 1.8.1
//*
//* FUNCTION:
//*     BIND THE TDSz DB2 PLAN.
//*
//* NOTES:
//*     BEFORE YOU SUBMIT THE JOB, DO THE FOLLOWING:
//*
//*     1. CHECK THAT THE DB2 AND TDSz DATA SET
//*        NAMES ARE CORRECT.  SEARCH FOR db2loadlibrary AND
//*        DRLvrn TO FIND THE DATASET NAMES.
//*
//*     2. IF THE DB2 SUBSYSTEM NAME IS NOT DSN, CHANGE
//*        DSN SYSTEM(DSN) TO DSN SYSTEM(SUBSYSTEM-NAME).
//*
//*     3. IF YOU WANT TO USE A PLAN NAME OTHER THAN DRLPLAN,
//*        CHANGE DRLPLAN IN THE BIND PLAN AND GRANT EXECUTE
//*        STATEMENTS TO REFER TO THE CHOSEN PLAN NAME.
//*        IF YOU CHANGE THE PLAN NAME YOU SHOULD CHANGE THE
//*        def_db2plan SPECIFICATION IN DRLFPROF, AND MODIFY
//*        THE PLAN= PARAMETER WHEREVER IT OCCURS IN SAMPLE
//*        BATCH JOBS YOU CUSTOMIZE TO USE THE NEW PLAN NAME.
//*
//*     4. IF YOU ARE NOT USING DB2 8.1, CHANGE DSNTIA81 TO
//*        THE NAME OF THE CORRESPONDING PLAN FOR YOUR RELEASE.
//*
//*
//* CHANGE ACTIVITY:
//* CHANGE FLAG TYPE DATE DESCRIPTION
//* -----*
//* $D0=DCR117, TDS181,02/06/09,ADL(KB): Created
//*
//*****
//DBINIT EXEC PGM=IKJEFT01
//STEPLIB DD DISP=SHR,DSN=db2loadlibrary
//DBRMLIB DD DISP=SHR,DSN=DRLvrn.SDRLCNTL(DRLPSQLX)
//SYSPRINT DD SYSOUT=*
//SYSTSPRT DD SYSOUT=*
//SYSTSIN DD *
DSN SYSTEM(DSN)
    BIND PLAN(DRLPLAN) MEMBER(DRLPSQLX) -
    ACTION(REPLACE) RETAIN ISOLATION(CS) -
    ENCODING (EBCDIC)

    RUN PROGRAM(DSNTIAD) PLAN(DSNTIA81) -
    LIB('DSN810.RUNLIB.LOAD')
END
//SYSIN DD *
GRANT EXECUTE ON PLAN DRLPLAN TO PUBLIC;
//*
```

Figure 6. DRLJDBND job

Customization considerations for the CICS Partitioning feature

If you are going to use the CICS Partitioning feature, run the DRLJDBIP job. DRLJDBIP creates additional storage groups that are used in the partitioned tablespaces of the CICS Partitioning feature.

To run DRLJDBIP:

1. Copy member DRLJDBIP in the DRL181.SDRLCNTL library to the &HLQ.LOCAL.CNTL library. DRLJDBIP appears in Figure 7 on page 28.
2. Modify the job card statement to run your job.
3. Customize the job for your site.

Follow the instructions in the job prolog to customize it for your site.

Note: A person with DB2 SYSADM authority (or someone who has access to the DB2 catalog) must submit the job.

4. Submit the job.

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DRLJDBIP job

```
//DRLJDBIP JOB (ACCT#),'SG FOR PARTITION'                                00010006
//*****                                                                    00020000
//*                                                                    *          00030000
//* LICENSED MATERIALS - PROPERTY OF IBM                               *          00040007
//*                                                                    *          00050000
//* 5698-B06 Copyright IBM Corporation 1992, 2009                       *
//* SEE COPYRIGHT INSTRUCTIONS.                                         *          00070007
//*                                                                    *          00080000
//*****                                                                    00090000
//*                                                                    *          00100000
//* NAME: DRLJDBIP                                                       *          00110007
//*                                                                    *          00120000
//* STATUS: Tivoli Decision Support for zOS 1.8.1                       *          00130007
//*                                                                    *          00140000
//* FUNCTION:                                                             *          00150007
//*   CREATE STORAGE GROUPS FOR CICS PARTITIONING FEATURE              *          00220807
//*                                                                    *          00221002
//* NOTES:                                                                *          00221107
//*   YOU NEED DB2 SYSADM AUTHORITY TO SUCCESSFULLY EXECUTE           *          00221207
//*   THIS JOB. BEFORE YOU SUBMIT THE JOB, DO THE FOLLOWING:           *          00221307
//*                                                                    *          00221502
//*   1. CHECK THAT THE DB2 AND TDSz DATA SET                          *          00221607
//*       NAMES ARE CORRECT. SEARCH FOR db2loadlibraru AND              *          00221707
//*       DRLvrn TO FIND THE DATA SET NAMES.                           *          00221707
//*                                                                    *          00221902
//*   2. IF THE DB2 SUBSYSTEM NAME IS NOT DSN, CHANGE                   *          00222007
//*       SYSTEM=DSN TO SYSTEM=SUBSYSTEM-NAME IN THE SYSTEMSIN         *          00222107
//*       STEP.                                                           *          00222207
//*                                                                    *          00222702
//*   3. IF YOU ARE USING A SYSTEM TABLE PREFIX THAT IS               *          00222807
//*       DIFFERENT FROM THE DEFAULT (DRLSYS), CHANGE DRLSYS           *          00222907
//*       IN THE CREATE STOGROUP STATEMENT TO THE NEW NAME.             *          00223007
//*                                                                    *          00223102
//*   4. IF YOU ARE USING A TABLE PREFIX THAT IS DIFFERENT            *          00223207
//*       FROM THE DEFAULT (DRL), CHANGE DRL IN THE CREATE              *          00223307
//*       STOGROUP STATEMENT TO THE NEW NAME.                            *          00223407
//*                                                                    *          00223102
//*   5. IF YOU ARE USING STORAGE GROUP DIFFERENT FROM THE             *          00223207
//*       DEFAULT, CHANGE STOGR1, STOGR2, STOGR3, STOGR4,               *          00223307
//*       IN THE CREATE AND GRANT STATEMENTS. IF YOU NEED               *          00223307
//*       MORE/LESS STORAGE GROUPS MODIFY THE NUMBER (ADD/              *          00223307
//*       DELETE) OF CREATE AND GRANT STATEMENTS.                        *          00223307
//*                                                                    *          00223102
//*   6. SPECIFY THE VOLUMES YOU ARE USING FOR THE STORAGE             *          00223207
//*       GROUPS (VOLSTOGRxx).                                           *          00223307
//*                                                                    *          00223102
//*   7. SPECIFY THE VCAT PARAMETER IN THE CREATE STATEMENT            *          00223207
//*       (CATALOG-NAME)                                                 *          00223307
//*                                                                    *
//*   8. IF YOU ARE NOT USING DB2 8.1, CHANGE DSNTIA81 TO              *
//*       THE NAME OF THE CORRESPONDING PLAN FOR YOUR RELEASE.          *
```

Figure 7. DRLJDBIP job (member of DRL181.SDRLCNTL) (Part 1 of 2)

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```

/**                                     *      00223407
/**                                     *      00224002
/**                                     *      00410000
/** CHANGE ACTIVITY:                   *      00411007
/**   00 1998-07-07  RV  PR V1R4 development-CICS Partitioning *
/**                                     *      PTR76 *
/**                                     *      00415000
/**   01 1998-09-24  RV  SYSTSIN missing and wrong comments *
/**                                     *      PTR96/PTR97 *
/**                                     *
/** CHANGE ACTIVITY:                   *
/** CHANGE FLAG  TYPE   DATE   DESCRIPTION *
/** -----*
/** $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and *
/**                                     *      DB2 dataset names. *
/** $D1=DCR116, TDS181,15/05/09,ADL(RC): Update TDS Version *
/**                                     *
/**                                     *      00416000
/**                                     *      00417000
/**
/**DBSTRG  EXEC PGM=IKJEFT01
/**STEPLIB DD  DISP=SHR,DSN=db2loadlibrary
/**DBRMLIB DD  DISP=SHR,DSN=DRLvrm.SDRLCNTL(DRLPSQLX)
/**SYSPRINT DD  SYSOUT=*
/**SYSPRINT DD  SYSOUT=*
/**SYSTSIN DD  *
DSN SYSTEM(DSN)
  RUN PROGRAM(DSNTIAD) PLAN(DSNTIA81) -
    LIB('DSN810.RUNLIB.LOAD')
END
/**SYSIN  DD  *
CREATE STOGROUP STOGR1
  VOLUMES (VOLSTOGR11, VOLSTOGR12, ...)
  VCAT CATALOG-NAME;
00700000
00750000
00760008
00770008

GRANT USE OF STOGROUP STOGR1 TO DRL, DRLSYS WITH GRANT OPTION;

CREATE STOGROUP STOGR2
  VOLUMES (VOLSTOGR21, VOLSTOGR22, ...)
  VCAT CATALOG-NAME;
00750000
00760008
00770008

GRANT USE OF STOGROUP STOGR2 TO DRL, DRLSYS WITH GRANT OPTION;

CREATE STOGROUP STOGR3
  VOLUMES (VOLSTPGR31, VOLSTOGR32, ...)
  VCAT CATALOG-NAME;
00750000
00760008
00770008

GRANT USE OF STOGROUP STOGR3 TO DRL, DRLSYS WITH GRANT OPTION;

CREATE STOGROUP STOGR4
  VOLUMES (VOLSTOGR41, VOLSTOGR42, ...)
  VCAT CATALOG-NAME;
00750000
00760008
00770008

GRANT USE OF STOGROUP STOGR4 TO DRL, DRLSYS WITH GRANT OPTION;
00780000
00500000
00863600
/*

```

Figure 7. DRLJDBIP job (member of DRL181.SDRLCNTL) (Part 2 of 2)

Step 4: Preparing the dialog and updating the dialog profile

The TDS load library and the TDS exec library must be allocated at the startup of your TSO logon proc. Tivoli Decision Support for z/OS dynamically allocates other libraries and data sets as it starts, and allocates still others as certain functions are performed. This step describes how to set up procedures for start-up and for letting Tivoli Decision Support for z/OS allocate the libraries and data sets it needs.

1. Ensure that the Tivoli Decision Support for z/OS load library, the Tivoli Decision Support for z/OS exec library, the DB2 load library, and the QMF load library (optional), GDDM libraries, load libraries, and data sets for BookManager are accessible to your TSO session :

- a. Make the Tivoli Decision Support for z/OS load library (DRL181.SDRLOAD), the DB2 load library, the QMF load library, the GDDM load library, and (optionally) the BookManager load library, accessible by performing one of these tasks:

- Allocate the SDRLOAD library, the DB2 load library (SDSNLOAD), the QMF load library (SDSQLOAD), the GDDM load library (SADMMOD), and the BookManager load library (SEOYLOAD) to STEPLIB in the generic logon procedure. For example:

```
//STEPLIB DD DISP=SHR,DSN=DRL181.SDRLOAD
//        DD DISP=SHR,DSN=QMF710.SDSQLOAD
//        DD DISP=SHR,DSN=GDDM.SADMMOD
//        DD DISP=SHR,DSN=SYS1.SEOYLOAD
//        DD DISP=SHR,DSN=DSN710.SDSNLOAD
```

- Add SDRLOAD, SDSQLOAD, SADMMOD, SEOYLOAD, and SDSNLOAD to the link list.
- Copy SDRLOAD, SDSQLOAD, SADMMOD, SEOYLOAD, and SDSNLOAD members to a library already in the link list. Make sure that the DB2 modules DSNALI, DSNHLI2, and DSNTIAR are linked in 31-bit addressing mode.

- b. Make the local exec library, the Tivoli Decision Support for z/OS exec library (DRL181.SDRLEXEC), and (optionally) the BookManager CLIST library, accessible by performing one of these tasks:

- Allocate the libraries to SYSPROC in the logon procedure, for example:

```
//SYSPROC DD DISP=SHR,DSN=&HLQ.LOCAL.EXEC
//        DD DISP=SHR,DSN=DRL181.SDRLEXEC
//        DD DISP=SHR,DSN=EOY.SEOYCLIB
```

- Allocate the libraries to SYSEXEC in the logon procedure, for example:

```
//SYSEXEC DD DISP=SHR,DSN=&HLQ.LOCAL.EXEC
//        DD DISP=SHR,DSN=DRL181.SDRLEXEC
//        DD DISP=SHR,DSN=EOY.SEOYCLIB
```

- Use the ALTLIB function to allocate the libraries.

If Tivoli Decision Support for z/OS is invoked by using the ALTLIB function on the application level, make sure that only the Tivoli Decision Support for z/OS exec library is included. Allocate other exec libraries to user level by using the ALTLIB ACT USER(EXEC) command.

- c. Make the ADMPC data set accessible by allocating it in the logon procedure, for example:

```
//ADMPC DD DISP=SHR,DSN=GDDM.SADMPCF
```

Tivoli Decision Support for z/OS dynamically allocates other libraries and data sets, such as the GDDM symbols data set GDDM.SADMSYM, when a

user starts a Tivoli Decision Support for z/OS dialog. “Allocation overview” on page 69 describes the libraries that Tivoli Decision Support for z/OS allocates and when it allocates them.

- d. If you have used any values other than default values for DRLJDBIN or for Tivoli Decision Support for z/OS data set names, you must modify the Tivoli Decision Support for z/OS *userid* .DRLFPROF file (allocated copying the DRLFPROF member of DRL181.SDRLCNTL).

DRLEINI1 sets dialog defaults for all users. Tivoli Decision Support for z/OS stores defaults for each user in member DRLPROF in the library allocated to the ISPPROF ddname, which is usually *tsoprefix*.ISPF.PROFILE. Edit DRLFPROF to include default values for users so Tivoli Decision Support for z/OS users need not change dialog parameter fields to begin using Tivoli Decision Support for z/OS.

Migration considerations - Before you start using the new Administration dialog, you must delete the member DRLPROF from the ISPPROF ddname library. This ensures that you use the correct environment, by refreshing your ISPF profile.

- e. Allocate a sequential dataset with name user.DRLFPROF, LRECL=80 BLKSIZE=32720 RECFM=FB and copy the DRLFPROF member of the SDRLCNTL library.
- f. Locate and change any variable values that you have changed during installation.

Notes:

- 1) Change values for data set names that identify DB2 and, optionally, QMF and GDDM libraries.
- 2) If you do not have BookManager installed, type blanks as the value of these BookManager variables in DRLFPROF:

```
bkmgr_mlib  
bkmgr_plib  
bkmgr_tlib  
bookshlf_ds
```

- 3) If you do not use QMF with Tivoli Decision Support for z/OS, change the value for qmfuse to NO.
- 4) If you do not use GDDM with Tivoli Decision Support for z/OS, change the value for gddmuse to NO. (If QMF is used, GDDM must be used.)

“Modifying the DRLFPROF dataset” on page 57 shows the DRLFPROF file containing the parameters to be modified.

“Overview of the Dialog Parameters window” on page 58 shows the administration dialog window and the default initialization values that DRLFPROF sets.

“Dialog parameters - variables and fields” on page 60 describes parameters and shows the interrelationship of DRLEINI1 and the Dialog Parameters.

- g. You can add Tivoli Decision Support for z/OS to an ISPF menu. To do so, use this ISPF statement:

```
CMD(%DRLEINIT) [DEBUG] [RESET] [DBRES] [REPORTS | R] [ADMINISTRATION | A]
```

To access a dialog from the command line of an ISPF window, any authorized user can issue the command TS0 %DRLEINIT from the command line of an ISPF window.

The optional DEBUG parameter sets on a REXX trace for the initialization execs. This helps you solve problems with data set and library allocation.

The optional RESET parameter sets the Tivoli Decision Support for z/OS ISPF profile variables to their default value. It has the same effect as deleting the DRLPROF member from the local (ISPPROF) profile library.

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The optional REPORTS parameter takes you directly to the reporting dialog. You can abbreviate this to R.

The optional ADMINISTRATION parameter takes you directly to the administration dialog. You can abbreviate this to A.

Step 5: Setting personal dialog parameters

Migration considerations - You should have edited the dialog parameters profile, file DRLFPROF from the DRL181.SDRLCNTL library, and copied it into the sequential dataset userid.DRLFPROF in “Step 4: Preparing the dialog and updating the dialog profile” on page 30. If you edited the file to match your installation values, you do not need to change the parameters unless you want to use the reporting dialog in administrator mode.

Authorized administrators can use the reporting dialog in administrator mode to view or modify all reports. Otherwise, a reporting dialog user uses the dialog in end-user mode, the default. In this mode, a user can view only public and privately-owned reports. In end-user mode, a user can modify only reports he or she created.

Tivoli Decision Support for z/OS stores parameters for each user in member DRLPROF in the library allocated to the ISPPROF ddname, which is usually tsoprefix.ISPF.PROFILE.

This section describes the procedure that every user must perform to use the Tivoli Decision Support for z/OS dialogs if you *did not* edit the DRLFPROF file. Perform this step if necessary.

To set dialog parameters:

1. From the command line of an ISPF/PDF window, do one of the following:
 - Type TS0 %DRLEINIT to display the Tivoli Decision Support for z/OS Primary Menu (Figure 8 on page 33).
 - OR -
 - Type TS0 %DRLEINIT Administration to display the Administration window (Figure 3 on page 10).

Note: Reporting dialog users can access the Dialog Parameters window from the Options pull-down of the Primary Menu or the Reports window.

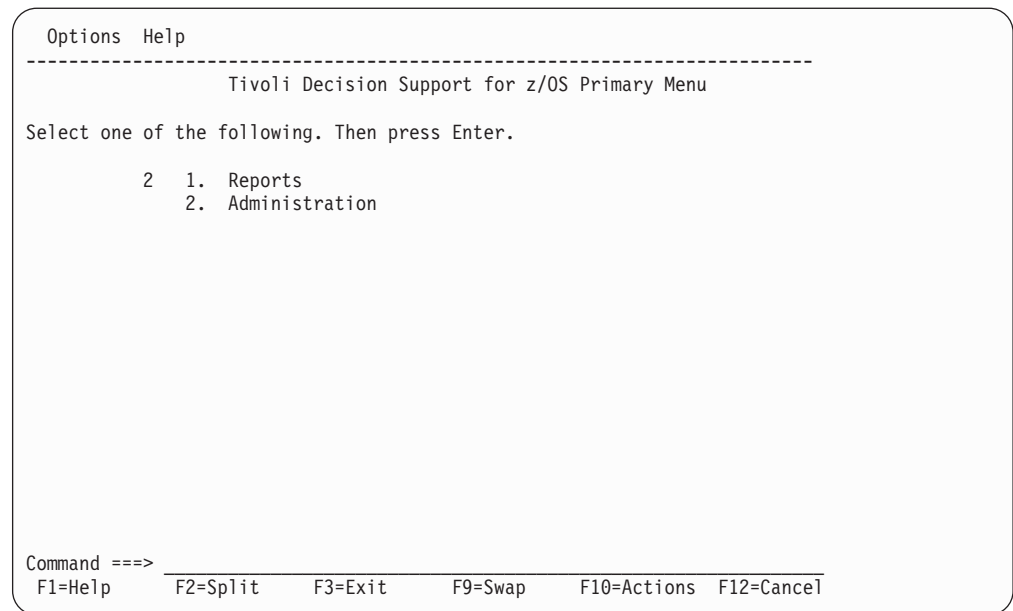


Figure 8. Tivoli Decision Support for z/OS Primary Menu

2. If you start from the Primary Menu, type 2, Administration, and press Enter to display the Administration window (see Figure 3 on page 10).
3. From the Administration window, select 1, System, to display the System window (Figure 9).

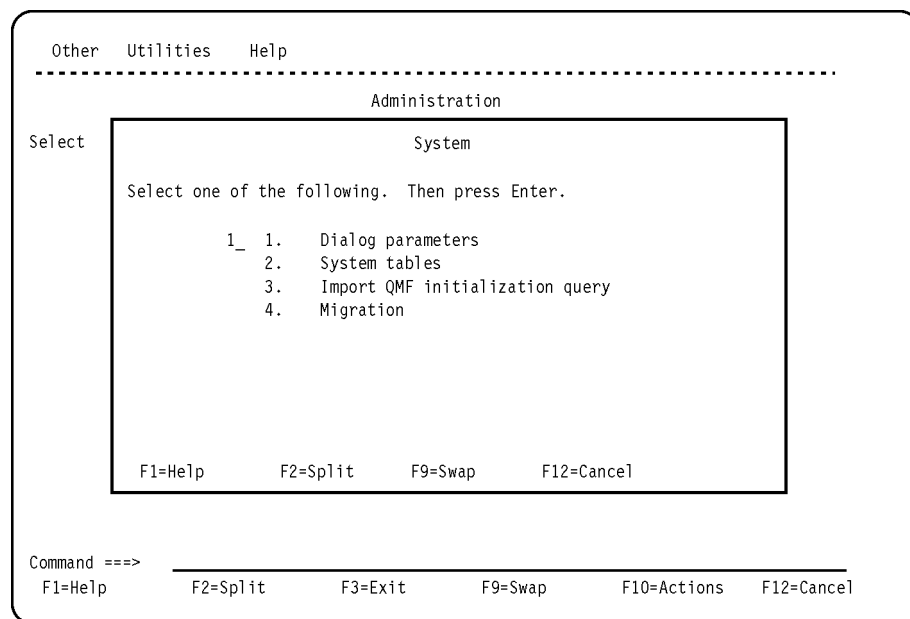


Figure 9. System window - Option 1

Note: If your installation does not use QMF, Import QMF initialization query is not selectable.

4. From the System window, select 1, Dialog parameters.
Tivoli Decision Support for z/OS displays the Dialog Parameters window (Figure 10 on page 34).

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Note: If your installation does not use QMF with Tivoli Decision Support for z/OS, the contents of this window is slightly different from what you see here. Both versions of the Dialog Parameters window are shown in “Overview of the Dialog Parameters window” on page 58.

```
Dialog Parameters

Type information. Then press Enter to save and return.

DB2 subsystem name . . . . . DSN                More:      +
Database name . . . . . DRLDB
Storage group default . . . . . DRLSG
Prefix for system tables . . . DRLSYS
Prefix for all other tables . . DRL
Buffer pool for data . . . . . BPO
Buffer pool for indexes . . . . BPO

Users to grant access to . . . DRLUSER          _____
                                          _____
                                          _____
                                          _____

SQL ID to use (in QMF) . . . . . DRLUSER
QML language . . . . . PROMPTED      (SQL or PROMPTED)
SYSOUT class (in QMF) . . . . . Q
Default printer . . . . . _____      (for graphic reports)
SQLMAX value . . . . . 5000

Reporting dialog mode . . . . . 1 1.      End user mode
F1=Help   F2=Split   F7=Bkwd   F8=Fwd   F9=Swap   F12=Cancel
```

Figure 10. Dialog Parameters window

Note: When you see this indicator:

More: +

in the upper-right corner of a Tivoli Decision Support for z/OS window, press F8 to scroll down. If the indicator shows a minus sign (-), press F7 to scroll up. For more information about using Tivoli Decision Support for z/OS dialog windows, refer to the description in the *Guide to Reporting*.

You must scroll through the window to display all its fields. “Overview of the Dialog Parameters window” on page 58 shows the entire Dialog Parameters window, both the version shown if QMF is used with Tivoli Decision Support for z/OS and the version shown if QMF is not used with it. “Dialog parameters - variables and fields” on page 60 has a description of the fields in the window.

5. Make modifications and press Enter.

Changes for administration dialog users and for end users are the same. You must identify the correct names of any data sets (including prefixes and suffixes) that you changed from default values during installation.

Tivoli Decision Support for z/OS saves the changes and returns to the System window. Although some changes become effective immediately, all changes become effective in your next session when Tivoli Decision Support for z/OS can allocate any new data sets you may have selected.

Step 6: Setting up QMF

Migration considerations - If you are migrating from an earlier release or modification level of Tivoli Decision Support for z/OS, you can skip this step, but only if you have performed this step during a previous installation.

Note: Tivoli Decision Support for z/OS can use QMF, for example, to display and work with reports. If your installation does not use QMF, the information in this section does not apply, and option 3, Import QMF initialization query, is not selectable in the System window.

When Tivoli Decision Support for z/OS starts QMF, it runs a query (DRLQINIT) to set the current SQL ID (by default, DRLUSER) that gives users required authority in QMF and lets them access Tivoli Decision Support for z/OS objects in QMF lists.

To import the QMF query from member DRLQINIT (in the DRL181.SDRLDEFS library) and save it in QMF as DRLSYS.DRLQINIT, from the System window (Figure 11), select 3, Import QMF initialization query, and press Enter.

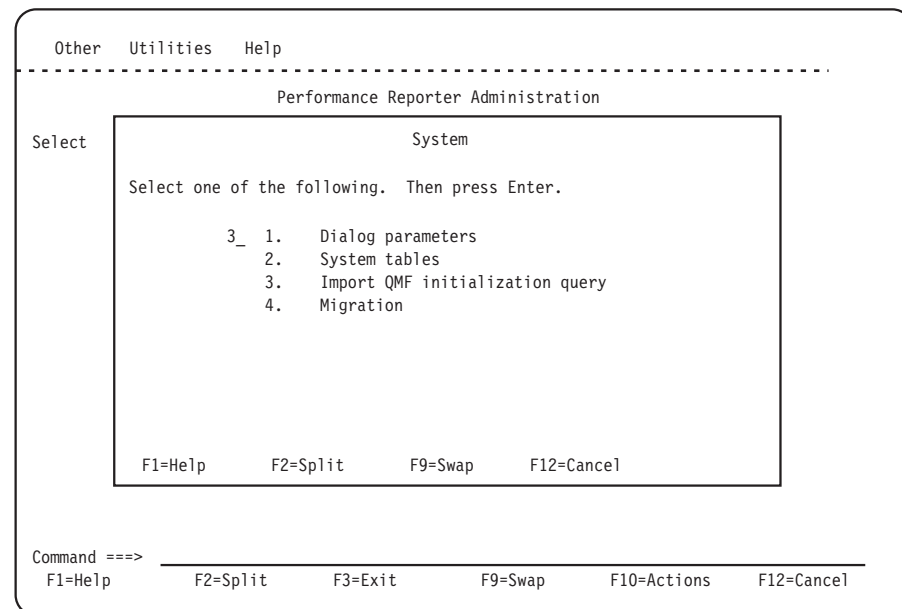


Figure 11. System window - Option 3

Tivoli Decision Support for z/OS imports the query into QMF, after which it returns to the System window.

Step 7: Creating or updating system tables

Migration considerations - If you are migrating from an earlier release or modification level, follow the description below to update your existing system tables and their contents

Before you can use all dialog functions, you must do *one* of the following:

- *Create* DB2 tables if you are installing Tivoli Decision Support for z/OS for the first time.
- *Update existing* DB2 tables if you are migrating from an earlier release or modification level.

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These DB2 tables are used by Tivoli Decision Support for z/OS to store its definitions and are known as *system tables*.

To *create or update* system tables you must first:

1. From the System window, select 2, System tables.

Tivoli Decision Support for z/OS displays the System Tables window (Figure 12).

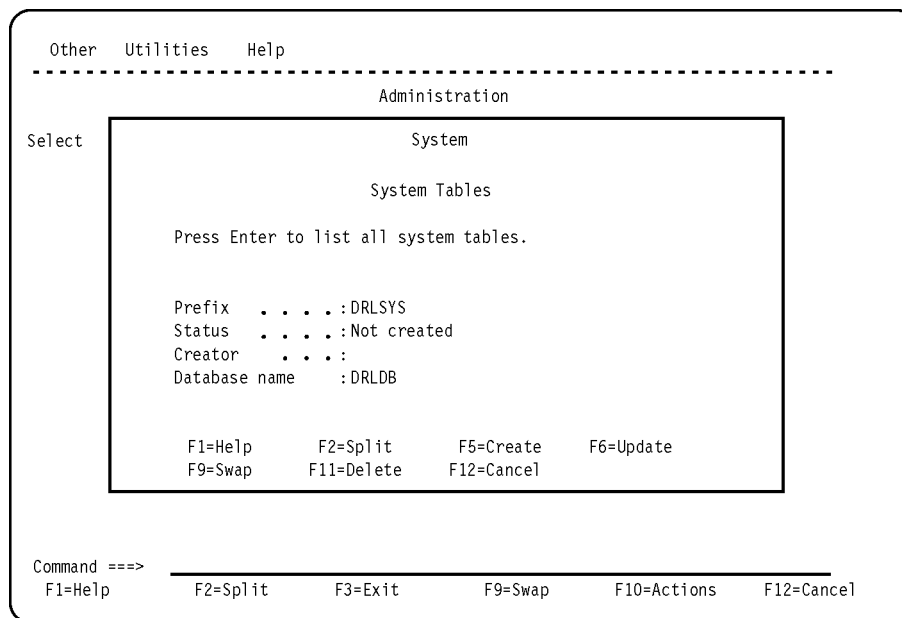


Figure 12. System Tables (not created) window

2. To *create* system tables for the first time, from the System Tables window, press F5 (Create).

Tivoli Decision Support for z/OS creates system tables and fills in information about feature components by searching DRL181.SDRLDEFS to see which features you have installed with SMP/E.

Tivoli Decision Support for z/OS displays messages in a browse window, if a problem has occurred. In this case, look for errors at the beginning of the listing. Resolve any errors such as this:

```
DSNT408I  SQLCODE = -904, ERROR:  UNSUCCESSFUL EXECUTION CAUSED BY AN
        UNAVAILABLE RESOURCE. REASON 00D70025, TYPE OF RESOURCE 00000220
        AND RESOURCE NAME DB2A.DSNDBC.DRLDB.A.I0001.A001
```

For information about specific DB2 messages, refer to the *Messages and Problem Determination*. System messages should be error free, with a DB2 return code of zero. After creating the system tables, Tivoli Decision Support for z/OS returns to the System Tables window where you must press F12 to return to the System window.

Migration considerations- *If you are migrating from an earlier release or modification level, follow the instructions below.*

From the System Tables window press F6 (Update) to *update* your existing system tables. The System Tables window displays Status: Created, and a creator name.

During the process of creating or updating system tables, these administrative reports are also created:

- PRA001 - INDEXSPACE cross-reference. For more information, see “PRA001 - Indexspace cross-reference” on page 345.
- PRA002 - ACTUAL TABLESPACE allocation. For more information, see “PRA002 - Actual tablespace allocation” on page 346.
- PRA003 - TABLE PURGE condition. For more information, see “PRA003 - Table purge condition” on page 348.
- PRA004 - LIST COLUMNS for a requested table with comments. For more information, see “PRA004 - List columns for a requested table with comments” on page 349
- PRA005 - LIST ALL TABLES with comments. For more information, see “PRA005 - List all tables with comments” on page 349
- PRA006 - LIST USER MODIFIED objects. For more information, see “PRA006 - List User Modified Objects” on page 350

Creating and updating system tables with a batch job

You can also create, update, and delete Tivoli Decision Support for z/OS system tables by running TSO/ISPF in batch mode. Sample job DRLJCSTB shows an example of how to submit a request to program DRLEAPST to create system tables. You can update or delete system tables by passing a different request to DRLEAPST, as described in the comments in DRLJCSTB.

The TSO/ISPF batch job step must include:

- DRLFPROF DD referring to your DRLFPROF data set
- ISPPROF DD referring to a PDS with RECFM=F and LRECL=80. If you have made changes to the Tivoli Decision Support for z/OS dialog parameters and have not also made those changes in your DRLFPROF data set, then the ISPPROF DD should refer to your ISPF profile data set and you should not specify the RESET parameter to DRLEINIT.
- ISPLLIB, ISPMLIB, ISPSLIB, and ISPTLIB DDs referring to your Tivoli Decision Support for z/OS and ISPF panel, message, skeleton, and table data sets.
- ISPLLOG DD referring to a data set with RECFM=VA and LRECL=125.
- SYSTSIN DD referring to instream data, or a data set, containing a command to invoke DRLEINIT, for example:
IPSTART CMD(%DRLEINIT RESET)
- DRLBIN (batch input) DD referring to instream data or a data set containing a command to invoke DRLEAPST with a request to perform the required function, for example:
DRLEAPST CREATE

DRLEAPST is the only program that can be invoked in this way.

Step 8: Setting up BookManager

Migration considerations - Perform this step if necessary.

Tivoli Decision Support for z/OS provides many links between its dialogs and the online Tivoli Decision Support for z/OS books, but you must install the online books to enable the links. Tivoli Decision Support for z/OS online books are distributed on CD in the z/OS Software Products Collection Kit.

To make Tivoli Decision Support for z/OS online books available:

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1. Follow the instructions in the *z/OS Software Products Collection Kit* to transfer online books from the CD to the z/OS system where you run Tivoli Decision Support for z/OS.

After the transfer is finished, you can rename the data sets to your standards. The data set default names are:

Table 1. Data set names of Tivoli Decision Support for z/OS online information

Data set name in MVS	Description
IBMBK.DRL5SHxx.BKSHELF	Bookshelf
IBMBK.DRL5SHxx.BKINDEX	Bookshelf index
IBMBK.DRL5BAxx.BOOK	Administration Guide
IBMBK.DRL5BDxx.BOOK	Guide to the Reporting Dialog
IBMBK.DRL5BLxx.BOOK	Language Guide and Reference
IBMBK.DRL5BYxx.BOOK	Messages and Problem Determination
IBMBK.DRL5FAxx.BOOK	AS/400 System Performance Feature Guide and Reference
IBMBK.DRL5FCxx.BOOK	CICS Performance Feature Guide and Reference
IBMBK.DRL5FExx.BOOK	System Performance Feature Reference Volume II
IBMBK.DRL5FIxx.BOOK	IMS Performance Feature Guide and Reference
IBMBK.DRL5FJxx.BOOK	Resource Accounting for z/OS
IBMBK.DRL5FNxx.BOOK	Network Performance Feature Installation and Administration
IBMBK.DRL5FOxx.BOOK	Network Performance Feature Reports
IBMBK.DRL5FPxx.BOOK	Network Performance Feature Reference
IBMBK.DRL5FRxx.BOOK	Distributed Systems Performance Feature Guide and Reference
IBMBK.DRL5FSxx.BOOK	System Performance Feature Guide
IBMBK.DRL5FTxx.BOOK	System Performance Feature Reference Volume I
IBMBK.DRL5OTxx.BOOK	Topics in Online Books

2. If you rename the book data sets, use BookManager to create a bookshelf and index that use the new names.

Tivoli Decision Support for z/OS dialogs link to books that are identified from the bookshelf data set name in *userid.DRLFPROF*. Change the bookshelf data set name in *userid.DRLFPROF* to enable the linkage between the dialogs and the books.

For example, to enable the Tivoli Decision Support for z/OS bookshelf named *IBMBK.EPDMBKS.BKSHELF*, use this statement:

```
epdmbks = '' IBMBK.EPDMBKS.BKSHELF ''
```

3. Make the Tivoli Decision Support for z/OS bookshelf available to BookManager READ/MVS as described in *Online Library: Distributing and Customizing the Library* so that all users can access it.

Step 9: Customizing JCL

Migration considerations - Change these IBM-supplied jobs, to integrate your own existing modifications into the jobs.

The DRL181.SDRLCNTL library contains several batch jobs that you can copy to &HLQ.LOCAL.CNTL and customize. Customization includes inserting correct data set names and the correct DB2 subsystem ID. These jobs, described in Chapter 11, “Setting up operating routines,” on page 137, are:

DRLJBATR

A sample job for printing and saving all (or a selected subset) of the batch reports. See “Using job DRLJBATR to run reports in batch” on page 168 for more information.

DRLJCOLL and DRLJCOxx

A sample job for collecting log data. See “Collecting log data” on page 137 for more information.

DRLJCOPY

A sample job for backing up a Tivoli Decision Support for z/OS tablespace with the DB2 COPY utility. See “Backing up the Tivoli Decision Support for z/OS database” on page 160 for more information.

DRLJDICT

A sample job for partitioning the CICS_DICTIONARY table, if the CICS Partitioning feature is going to be used. See the CICS Partitioning feature chapter in *CICS Performance Feature Guide and Reference* for more information.

DRLJEXCE

A sample job for producing Tivoli Information Management for z/OS problem records. See “Administering problem records” on page 177 for more information.

DRLJEXCP

A sample job for partitioning the EXCEPTION_T table, if the CICS Partitioning feature is going to be used. See the CICS Partitioning feature chapter in *CICS Performance Feature Guide and Reference* for more information.

DRLJPURG

A sample job for purging data from the database. See “Purging Utility” on page 158 for more information.

DRLJREOR

A sample job for reorganizing the Tivoli Decision Support for z/OS database with the DB2 REORG utility. See “Purging Utility” on page 158 for more information.

DRLJRUNS

A sample job for updating statistics on Tivoli Decision Support for z/OS tablespaces with the DB2 RUNSTATS utility. See “Monitoring the size of the Tivoli Decision Support for z/OS database” on page 163 for more information.

DRLJTBSR

A sample job for producing a detailed report about the space required for all, or a subset of, a selected component’s tables. See “Understanding tablespaces” on page 150 for more information.

If you already have jobs for maintaining DB2, for example, COPY, REORG or RUNSTATS, you can continue to use them for this purpose, instead of using the Tivoli Decision Support for z/OS jobs.

Step 10: Testing the installation of the Tivoli Decision Support for z/OS base

Migration considerations - Perform this step as it is described below. If the Sample component is already installed, uninstall it and install it again.

Before you install Tivoli Decision Support for z/OS feature components, ensure that the installation has been successful:

1. Install the Sample component using the information in “Installing a component” on page 182. Although editing lookup tables is a usual part of online component installation, you need not edit the sample lookup table to successfully complete this test. For a description of what is provided with the sample component, see Chapter 18, “Sample components,” on page 317.
2. After you install the Sample component, select 3, Logs, from the Administration window and press Enter.

Tivoli Decision Support for z/OS displays the Logs window (Figure 13).

```

Log  Utilities View Other Help
-----
                                Logs                                ROW 1 TO 1 OF 1

Select a log. Then press Enter to display record definitions.

/  Logs                Description
/  SAMPLE              Sample log definition
***** BOTTOM OF DATA *****

Command ==>
F1=Help   F2=Split   F3=Exit   F5=Log def  F6=Datasets  F7=Bkwd
F8=Fwd    F9=Swap    F10=Actions  F11=Collect F12=Cancel
    
```

Figure 13. Logs window

3. From the Logs window, select the SAMPLE log and press F11. Tivoli Decision Support for z/OS displays the Collect window.

```

Log Utilities View Other Help
+-----+
                        Collect

Type information. Then press Enter to edit the collect JCL.

Data set   DRLxxx.SDRLEDFS(DRLSAMPL)                (reqd)
Volume . . _____ (If not cataloged)
Unit . . . _____ (Required for batch if Volume defined)

Reprocess . . . . . 2  1. Yes
                        2. No
Commit after . . . . . 1  1. Buffer full
                        2. End of file
                        3. Specify number of records

Number of records . . _____
Buffer size . . . . . 10
Extention . . . . . 2  1. K
                        2. M

Condition . . . . . _____ >
F1=Help      F2=Split      F4=Online      F5=Include      F6=Exclude
F9=Swap      F10=Show fld   F11=Save def   F12=Cancel
+-----+
Command ==>
F1=Help      F2=Split      F3=Exit      F5=Log def      F6=Datasets      F7=Bkwd
F8=Fwd       F9=Swap      F10=Actions  F11=Collect     F12=Cancel
+-----+

```

Figure 14. Sample log statistics output

4. Type DRL181.SDRLEDFS(DRLSAMPL) in the Data set field and press F4 (Online).

Tivoli Decision Support for z/OS starts the online collect. When it finishes, it displays statistics about the data it collected.

5. Press F3 to return to the Logs window after you finish looking at the messages.
6. Press F3 to return to the Administration window.
7. From the Administration window, select 5, Reports, and press Enter.

Tivoli Decision Support for z/OS displays the Reporting Dialog Defaults window. (Refer to *Guide to Reporting* for more information.)

8. Press Enter to display the Reports window (Figure 15).

```

Report Batch Group Search Options Other Help
                        Reports                Row 1 to 9 of 9

Select a report. Then press Enter to display.

Group . . . . . : All reports

/ Report                                     ID
ACTUAL TABLESPACE SPACE allocation          PRA002
INDEXSPACE cross-reference                  PRA001
List all tables with comments                PRA005
List columns for a requested table with comments PRA004
List User Modified Objects                  PRA006
/ Sample Report 1                            SAMPLE01
Sample Report 2                              SAMPLE02
Sample Report 3                              SAMPLE03
TABLE PURGE Condition                        PRA003
***** Bottom of data *****

Command ==>
F1=Help      F2=Split      F3=Exit      F4=Groups      F5=Search      F6=Listsrch
F7=Bkwd      F8=Fwd       F9=Swap      F10=Actions   F11=Showtype  F12=Cancel

```

Figure 15. Reports window

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9. From the Reports window, type a ? (question mark) in the selection field next to Sample Report 1 and press Enter. Tivoli Decision Support for z/OS starts BookManager and displays the online version of this book.
10. When you finish viewing the information, press F3 (Exit) until you return to the Reports window.
11. From the Reports window, select Sample Report 1. Type a character other than a question mark in the selection field and press Enter.
Tivoli Decision Support for z/OS displays the Data Selection window (Figure 16).
12. Press Enter to generate the report.

```

                                Data Selection                                ROW 1 TO 1 OF 1
Type values.  Then press Enter to generate the report.
Report ID   . . . : Sample Report 1
Variable      Value                                     Oper  Req
SYSTEM_ID    _____> + =                          No
*****
*****          BOTTOM OF DATA          *****
*****

Command ==> _____
F1=Help      F2=Split      F4=Prompt      F5=Table      F6=Chart      F7=Bkwd
F8=Fwd       F9=Swap       F10=Showfld   F11=Hdrval   F12=Cancel
```

Figure 16. Data Selection window

Tivoli Decision Support for z/OS runs the query associated with the report and displays the report through GDDM/ICU³. (Figure 120 on page 320 shows the report.)

13. When you finish viewing the report, press F9 to exit from GDDM/ICU, and press F3 (Exit) to return to the Reports window.
14. From the Reports window, press F3 to return to the Administration window.

Step 11: Reviewing DB2 parameters

Before you install components, you can review DB2 table and indexspace parameters such as:

- Buffer pool
- Compression
- Erase on deletion
- Free space
- Lock size
- Number of partitions, for a partitioned space

3. If your installation does not have GDDM, the report is displayed in tabular format.

- Number of subpages, for an indexespace
- Primary and secondary space
- Segment size
- Type of space
- VSAM data set password

Please give careful consideration to these parameters, as they can affect the performance of your system.

Note: Before you assign a buffer pool to a component's index or tablespace, activate the buffer pool and add the USE privilege to the privilege set for the buffer pool.

To change parameters:

1. From the Administration window, select 2, Components, and press Enter.
2. Select a component.
3. Select the Space pull-down.
4. Select Tablespaces, to change tablespace definitions, or select Indexes, to change index definitions.
5. If you are unsure about the meaning of a field, press F1 to get help. For more information, refer to the CREATE INDEX and CREATE TABLESPACE command descriptions in the *DB2 Universal Database for OS/390 and z/OS: SQL Reference*.

Tivoli Decision Support for z/OS saves the changed definitions in your local definitions library. When you save a changed definition, it tells you where it is saving it, and prompts you for a confirmation before overwriting a member with the same name.

Step 12: Installing components

Migration considerations - Migration considerations for migrating components are described in Chapter 12, "Working with components," on page 181.

In previous installation steps, you have:

- Installed all Tivoli Decision Support for z/OS data sets
- Set up access to Tivoli Decision Support for z/OS data
- Initialized the Tivoli Decision Support for z/OS database
- Allocated the required data sets of related products
- Initialized Tivoli Decision Support for z/OS dialog parameters
- Created Tivoli Decision Support for z/OS system tables
- Initialized QMF for Tivoli Decision Support for z/OS (if applicable)
- Set up BookManager for Tivoli Decision Support for z/OS users
- Customized sample Tivoli Decision Support for z/OS JCL
- Tested Tivoli Decision Support for z/OS (with the Sample component)
- Reviewed DB2 parameters

You are now ready to install Tivoli Decision Support for z/OS features. To install components, use the information in "Installing a component" on page 182, and in these books:

Feature name	Book name
--------------	-----------

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AS/400 Performance	<i>AS/400 System Performance Feature Guide and Reference</i>
CICS Performance	<i>CICS Performance Feature Guide and Reference</i>
Distributed Systems Performance	<i>Distributed Systems Performance Feature Guide and Reference</i>
IMS Performance	<i>IMS Performance Feature Guide and Reference</i>
Network Performance	<i>Network Performance Feature Installation and Administration</i>
System Performance	<i>System Performance Feature Reference Volume I and II</i>

To install Resource Accounting for z/OS (part of the base function), see the *Resource Accounting for z/OS* book.

The rest of this chapter describes tasks that you can do as required at a later time.

Installing the Usage and Accounting Collector

The CIMS Lab Mainframe collector is incorporated into Tivoli Decision Support and called the Usage and Accounting Collector.

For a description of the Usage and Accounting Collector, see “System Overview” in the *Usage and Accounting Collector User Guide*.

To install the Usage and Accounting Collector, follow these steps:

1. “Execute DRLNINIT to customize the JCL.”
2. “Allocate and initialize Usage and Accounting files by running DRLNJOB1” on page 47.

To verify your installation, follow these steps:

1. “Process SMF data using DRLNJOB2 (DRLCDATA and DRLCACCT)” on page 47.
2. “Run DRLNJOB3 (DRLCMONY) to create invoices and reports” on page 50.
3. “Process Usage and Accounting Collector Subsystems” on page 51.

To support programs such as CICS, DB2, IDMS, IMS, VM/CMS, VSE, DASD Space Chargeback, and Tape Storage Accounting, edit and run the appropriate jobs. Examples of member names are DRLNCICS, DRLNDB2, DRLNDISK.

To check your SMP/E installation, see “Step 1: Reviewing the results of the SMP/E installation” on page 15.

Execute DRLNINIT to customize the JCL

Installation job DRLNINIT invokes the REXX program DRLCINIT. This program is a utility that customizes Usage and Accounting Collector jobs to your specifications. DRLCINIT inserts job cards, adds high level nodes to all Usage and Accounting Collector data sets, changes VOLSER numbers, and specifies DSCB model names.

Run DRLNINIT and do the following:

1. Replace sample job card with user job card.
2. Insert or replace data set name high-level qualifiers.
3. Insert serial numbers on the VOLUME parameter.

4. Insert DSCB model names.

Note: If you do not run DRLCINIT, you must change each job member manually as you use it.

To execute job DRLNINIT, follow these instructions:

1. DRL.SDRLCNTL (DRLMFLST) contains the list of Usage and Accounting Collector jobs that are used in this utility.
2. The SMP/E process allocates &HLQ.LOCAL.CNTL. This DSN stores the customized jobs. The Usage and Accounting Collector JCL is copied to this library and changes are made in this library. The first step in DRLNINIT performs the copy. This makes it possible to execute DRLNINIT repeatedly until the desired result is achieved.

Replace the two occurrences of &HLQ.LOCAL.CNTL in DRLNINIT with the filename that was allocated during the SMP/E install.

3. Job card replacement.

A standard job card can be inserted with a unique jobname. The following parameters in STEP020 control the job card replacement:

JCDSN=

Specifies the file containing the standard job card.

For example: JCDSN=DRL.SDRLCNTL(JBCARD)

The contents in member JBCARD is used as the job card.

JCLINES=

The number of lines to use from JCDSN.

For example: JCLINES=2

The first two lines in the JCDSN member are used as a job card.

JCMASK=

A unique job name can be generated for the execution jobs. The JCMASK is used to specify the common part of the jobname and the position of a sequential number. After the first character, you must enter a sequence of '*' (asterisk) characters to indicate where to insert the job sequence number. The sequence mask is from 2 to 6 characters in length:

Examples:

JCMASK	Jobnames generated
DRL****	DRL0001, DRL0002, DRL0003...
P*****Q	P000001Q, P000002Q, P000003Q...
DRL**DRL	DRL01DRL, DRL02DRL, DRL03DRL...

JCSKIP=

Specify any non-blank character and the Job card replacement process will be skipped.

For example: JCSKIP=Y

No job card customization of the Usage and Accounting Collector execution jobs is done.

4. Insert or replace data set name high level qualifiers. The default filenames used for the Usage and Accounting Collector files start with the high-level qualifier of 'DRL'. The HLQ process in the DRLCINIT utility allows this default to be

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replaced or an additional high-level qualifier to be inserted. The following parameters in STEP020 control the HLQ processing:

- HLQACT=** Specifies the action to perform: R=Replace, I=Insert.
For example: HLQACT=R
Every occurrence of a filename with the high-level qualifier of 'DRL.', will be replaced with the value in HLQDSN.
- HLQDSN=** The new value to use for the high-level qualifier.
For example: HLQDSN=DRL.TDSZUAC
The default filenames are changed to start with 'DRL.TDSZUAC'.
- HLQSKIP=** Specify any non-blank character and the HLQ processing is skipped.
For example: HLQSKIP=Y
No customization of the Usage and Accounting Collector data set names is done.

5. Insert VOLSER numbers. At various places within the Usage and Accounting Collector jobs, volume serial numbers are needed. The DRLCINIT utility allows you to replace them all globally. The default volume serial numbers are "?????" throughout the JCL. The default volume serial appears in IDCAMS processing as VOL(?????) and VOL=SER=????? and is used for VSAM file allocation. The JCL also uses VOL=SER=????? for temporary space allocations. The following parameters in STEP020 control the VOLSER processing:

- VOL=** The replacement volume serial to use instead of "?????"
- VSSKIP=** Specify any non-blank character and the VOLSER processing is skipped.
For example: VSSKIP=Y
No customization of the Usage and Accounting Collector VOL or VOL=SER parameters is done.

6. Insert DSCB model names.

A model DSCB parameter is used for the proper functioning of Generation Data Groups (GDGs). The Usage and Accounting Collector JCL is distributed with all model DSCB references set to 'MODELDCB'. If your installation does not require the use of this parameter, you can delete it manually from the JCL. The DSCB processing can be used to change the default to a value used at your installation. The following parameters in STEP020 control the DSCB processing:

- MDDSCB=** The replacement model DSCB to use instead of MODELDCB.
- MDSKIP=** Specify any non-blank character and the model DSCB processing will be skipped.
For example: MDSKIP=Y
No customization of the Usage and Accounting Collector model DSCB will be done.

The DRLCINIT utility produces statistics for the execution. If any exceptions are noted, they can be found listed in the DRLMXCEP member of &HLQ.LOCAL.CNTL. These exceptions might or might not be severe enough to cause a JCL error; check DRLMXCEP if exceptions are reported.

Statistic report DDNAME SYSTSPRT

Processing.....

Completed SYSTSIN

69 Files

0 Exceptions

JobCard : 68 Replacements

HLQ : 1389 Replacements

Volume : 30 Replacements

ModelDSCB: 207 Replacements

Normal completion

Allocate and initialize Usage and Accounting files by running DRLNJOB1

DRLNJOB1 is a member in DRL181.SDRLCNTL. This job creates four permanent files and four Generation Data Groups (GDGs). The permanent files are:

Usage and Accounting Collector client

Member DRLMCLNT contains sample client records. For information about client records, see Chapter 8. "Client Identification and Budget Reporting – DRLCCLNT and DRLCBDGT" in the *Usage and Accounting Collector User Guide*.

Rate Members DRLMRATE, DRLMRT01, DRLMRT02 contain sample Rate records. For information about rate records, see Chapter 5. "Computer Center Chargeback Program – DRLCMONY" in the *Usage and Accounting Collector User Guide*.

Dictionary

Members DRLKxxxx contain the default record definitions for the Usage and Accounting Collector Dictionary. For more information about the Usage and Accounting Collector Dictionary, see Chapter 7. "Dictionary – CIMSDTVS" in the *Usage and Accounting Collector User Guide*.

Status and Statistics VSAM

The Status and Statistics file is a VSAM file that should be allocated so that checkpoint and statistical information can be recorded for program DRLCEXTR. Use the default values to create the VSAM files.

Note: You do not need to set rates or identify clients at this time.

For the JCL, see member DRLNJOB1 in DRL181.SDRLCNTL.

Process SMF data using DRLNJOB2 (DRLCDATA and DRLCACCT)

This job, which is divided into two steps, runs programs DRLCDATA and DRLCACCT. These programs interface with the z/OS-SMF data set and create the DRL.DRLCACCT.DAILY batch chargeback file.

DRLNJOB2 is the basis for daily processing and is the only job required on a daily basis for batch chargeback. Logically, it is run immediately after the SMF data set

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is unloaded to disk or tape. After DRLNJOB2 processing is finished, data set DRL.DRLCACCT.DAILY contains z/OS batch and TSO accounting records, and data set DRL.SMF.HISTORY contains reformatted SMF records.

Note: It is recommended that you read Chapter 2. “SMF Interface Program – DRLCDATA” and Chapter 3. “Accounting File Creation Program – DRLCACCT” in the *Usage and Accounting Collector User Guide* before you start changing the default control statements.

1. JOB STEP DRLC2A

This executes program DRLCDATA. For more information, see Chapter 2. “SMF Interface Program – DRLCDATA” in the *Usage and Accounting Collector User Guide*.

Table 2. Explanation of Program DRLCDATA

Input/output	DDNAME	Description
INPUT	SMFIN	This is the SMF DUMP data set.
INPUT	CIMSCNTL	Data set DRL181.SDRLCNTL (DATAINPT) Contains input control statements. For more information, see the Control Statement Table in Chapter 2. “SMF Interface Program – DRLCDATA” in the <i>Usage and Accounting Collector User Guide</i> .
OUTPUT	CIMSSMF	Usage and Accounting Collector reformatted SMF data set. Contains each SMF record from the input data set unless limited by a records statement. This data set is designed as a backup data set of reformatted SMF Records. Depending on installation requirements, you might choose to DD DUMMY this data set, or to COMMENT the statement.
OUTPUT	CIMSACCT	This data set contains selected SMF chargeback records (6, 30, 101, 110). This data set is used as input in step DRLC2B.
OUTPUT	CIMSCICS	This data set contains CICS records (SMF Type 110). This record is used by the Usage and Accounting Collector CICS interface programs.
OUTPUT	CIMSDB2	This data set contains DB2 records (SMF Type 101). This record is used by the Usage and Accounting Collector DB2 interface programs.

2. SMF Merge

It is recommended that you insert a merge between steps DRLC2A and DRLC2B to create a history of data set DRL.SMF.HISTORY (see member DRLNSMFM in DRL181.SDRLCNTL). The merge field is seven for one character. Use a cartridge tape and block the output data set to 32K (BLKSIZE = 32760).

The Usage and Accounting Collector Merge is a sample SORT/MERGE set of JCL that creates a sorted history data set of Usage and Accounting Collector accounting records can be found in data set DRL181.SDRLCNTL member DRLNMERG. This job should be run daily after the batch and online Usage and Accounting Collector jobs have been executed.

If DRLNMERG is done on a daily basis, at the end of the month, the Usage and Accounting Collector master file is in account code sort sequence.

You should maintain the history data sets on tape. Leave the daily files on disk for daily reports and set up generation data sets to tape for the history file.

3. JOB STEP DRLC2B

This executes program DRLCACCT, which processes the data set created by program DRLCDATA (DDNAME CIMSACCT) and generates the Usage and Accounting Collector batch chargeback data set. For details, see Chapter 3.

“Accounting File Creation Program – DRLCACCT” in the *Usage and Accounting Collector User Guide*.

Table 3. Explanation of Program DRLCACCT

Input/output	DDNAME	Description
INPUT	CIMSDATA	Reformatted SMF records. These records are created by DDNAME CIMSACCT in program DRLCDATA. The Usage and Accounting Collector Suspense file for unmatched job step and print records is appended to DDNAME CIMSDATA.
INPUT	CIMSCNTL	Control statements.
INPUT	CIMSTABL	Optional user-supplied table to convert job names and/or job card account codes to a new format. For more information, see Chapter 3. “Accounting File Creation Program – DRLCACCT” in the <i>Usage and Accounting Collector User Guide</i> .
INPUT	CIMSDTVS	Usage and Accounting Collector Dictionary VSAM file.
INPUT	CIMSPDS	Control statements. This data set is used by DRLCACCT when PROCESS CIMS SERVER RESOURCE RECORDS control statement is specified. A member, DRLMALSA, in this data set contains the control members for the different records.
OUTPUT	IMSACT2	Usage and Accounting Collector batch chargeback file containing the 79x accounting records. This data set is used by DRLCEXTR and DRLCMONY.
OUTPUT	CIMSUSPN	Suspense file. This data set contains Step and Print records that have not been matched with a Job Start or Job Stop record.
OUTPUT	CIMSEXCP	This data set contains records that have not been matched with entries in the CIMSTABL data set.
OUTPUT	CIMSPRNT	This data set contains the runtime parameters and the results of the run.
OUTPUT	CIMMSG	This data set contains informational messages.

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Table 3. Explanation of Program DRLCACCT (continued)

Input/output	DDNAME	Description
OUTPUT	CIMSSEL	Usage and Accounting Collector accounting records. This data set contains the records that failed date selection when the PROCESS CIMS MAINTENANCE and NON-SELECTED FILE PROCESSING ON control statements are specified.
OUTPUT	CIMSUNSP	Unsupported CSR records. This data set contains all CSR records that did not have a definition within CIMSDTV5.

Note: For JCL information, see member DRLNJOB2 in DRL181.SDRLCNTL.

Run DRLNJOB3 (DRLCMONY) to create invoices and reports

DRLNJOB3 contains the JCL to run program DRLCMONY, which creates invoices and zero-cost invoices (rate determination).

Billing control statements are contained in member DRLMMNY. Edit these statements to customize Usage and Accounting Collector for your installation.

You can use the Usage and Accounting Collector defaults as distributed until you decide on client information, billing rates, and control information.

To run DRLNJOB3, follow these steps:

1. Run DRLN3A.
This step converts the 79x accounting records into CSR+ records. DRLCMONY supports only CSR+ records.
2. Run DRLC3B.
This step sorts the data set created by step DRLC3A into account code, job name, and job log number sequence.
3. Run DRLC3C.
This step is for the Computer Center Billing System – DRLCMONY.

Input/output	DDNAME	Description
INPUT	CIMSACCT	Integrated chargeback data set.
INPUT	CIMSCLVS	Client records.
INPUT	CIMSCNTL	Control statements.
INPUT	CIMSRTVS	Billing rates.
INPUT	CIMSCLDR	Usage and Accounting Collector calendar file.
INPUT	CIMSNCPU	CPU normalization statements.
INPUT	CIMSSCPU	CPU job class and priority surcharge statements.
OUTPUT	SYSOUT	Messages
OUTPUT	CIMSPRNT	Processing results.
OUTPUT	CIMSINVC	Invoices.
OUTPUT	CIMSMSG	Informational messages.

Input/output	DDNAME	Description
OUTPUT	CIMSSUM	Summary records by account. One record per account and billable item – (Rate Code).
OUTPUT	CIMSIDNT	Identifier data that can be loaded into a Tivoli Usage and Accounting Manager database. This file is produced by DRLCMONY in Server mode.
OUTPUT	CIMSDETL	Detail data that can be loaded into a Tivoli Usage and Accounting Manager database. This file is produced by DRLCMONY in server mode.
OUTPUT	CIMSUMRY	Summary data that can be loaded into a Tivoli Usage and Accounting Manager database. This file is produced by DRLCMONY in server mode.

For record descriptions, see Appendix. “Accounting File Record Descriptions” in the *Usage and Accounting Collector User Guide*.

For JCL information, see member DRLNJOB3 in DRL181.SDRLCNTL.

Process Usage and Accounting Collector Subsystems

Note: This step is optional.

Usage and Accounting Collector is now installed and ready to be customized for batch chargeback. After you are comfortable with the results you are receiving from the Usage and Accounting Collector z/OS batch system, you can start integrating data from the wide range of subsystems that Usage and Accounting Collector supports.

To integrate a Usage and Accounting Collector subsystem, perform the following tasks:

1. Edit the appropriate JCL member (for example, DRLNCICS).
2. Create an account code conversion table.
3. Process the job.
4. Merge the output with the input to program DRLCMONY (DRLNJOB3).
5. Run DRLNJOB3 to generate the integrated invoices.

The following list provides a list of member names for some of the most commonly-used Usage and Accounting Collector subsystems.

Table 4. Usage and Accounting Collector Subsystem Member Names (Partial List)

Subsystem Member name	Description
DRLNCICS	CICS Support
DRLNDB2	DB2
DRLNMQSR	MQSeries®
DRLNDISK	DASD Space
DRLNTAPE	Tape Storage
DRLNIMS	IMS
DRLNUNIV	ROSCOE, ADABAS/SMF, IDMS/SMF, RJE, WYLBUR, Oracle, MEMO, Control-T, BETA

Installing multiple Tivoli Decision Support for z/OS systems

You can install more than one Tivoli Decision Support for z/OS system on the same DB2 subsystem. This is useful if you want to develop and test new Tivoli Decision Support for z/OS applications.

Note: You cannot use DB2 Copy to copy the objects from the first installation to the new one. If you do, QMF definitions may be lost.

To install another Tivoli Decision Support for z/OS system, repeat the installation from “Step 2: Setting up security” on page 16 to “Step 12: Installing components” on page 43 and specify different values for:

- DB2 subsystem
- Database
- System table prefix
- Other tables prefix
- RACF groups (if necessary)
- Local data sets

for example) for both systems.

For example, assume your user ID is BILL, and you want a private Tivoli Decision Support for z/OS system.

Dialog parameter	Value
DB2 subsystem	DB2T
Database	BILLDB
System table prefix	BILL
Other table prefix	BILL
Users to grant access to	BILL
Local data sets	BILL.DEFS....and so on

Other users cannot use this system because BILL is not a DB2 secondary authorization ID nor a RACF group ID. If you want to share this new Tivoli Decision Support for z/OS system, establish a valid RACF group ID and use the group ID as the prefix instead of BILL.

Installing Tivoli Decision Support for z/OS features separately

Use this information if you are installing Tivoli Decision Support for z/OS features separately; that is, not at the same time as you installed the Tivoli Decision Support for z/OS base and any features.

To install features:

1. Follow the instructions in the *Tivoli Decision Support for z/OS Program Directory* to use SMP/E to install all the performance features required. If you have already installed a feature with SMP/E, you need not install it again unless you are reinstalling to correct a previous installation error.
2. Update Tivoli Decision Support for z/OS system tables with information about the features you are installing:

Installing Tivoli Decision Support for z/OS

- a. From the Tivoli Decision Support for z/OS Administration window, select 1, System, to display the System window (Figure 9 on page 33).
- b. Select 2, System tables, to display the System Tables window (Figure 17).

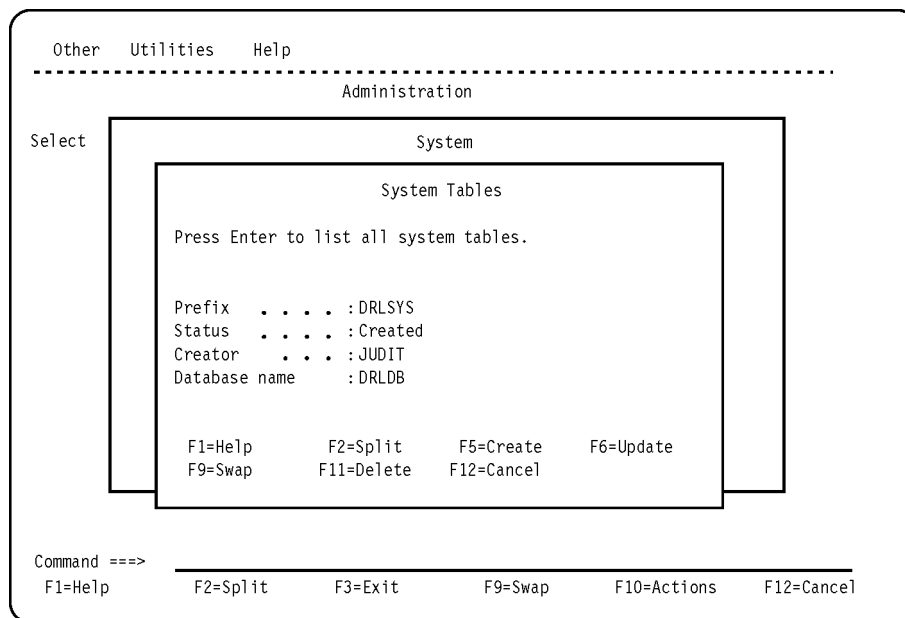


Figure 17. System Tables (created) window

- c. Press F6 (Update) to update the Tivoli Decision Support for z/OS system tables with information about the newly installed features.
- d. Resolve any DB2 errors that appear at the top of the browse window. The successful installation of a component that is a part of the feature (described in "Installing a component" on page 182) verifies the feature's installation.

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Chapter 3. Dialog parameters

This chapter describes dialog parameters that are set initially by member DRLEINI1 in the DRLxxx.SDRLEXEC library and read from the *userid*.DRLFPROF data set. Tivoli Decision Support for z/OS initializes a new user's first dialog session with parameter settings from *userid*.DRLFPROF. From that point forward, a user's dialog parameters are in personal storage in member DRLPROF in the library allocated to the ISPPROF ddname, which is usually *tsoprefix*.ISPF.PROFILE. If DRLFPROF exists, a user changes parameter values through the Dialog Parameters window. DRLEINI1 continues to set parameters that do not appear in the Dialog Parameters window. It does this when a user starts Tivoli Decision Support for z/OS.

“Step 4: Preparing the dialog and updating the dialog profile” on page 30 describes the installation step where *userid*.DRLFPROF is customized for your site. It refers to this chapter for descriptions of:

- “Modifying the DRLFPROF dataset”
- “Overview of the Dialog Parameters window” on page 58
- “Dialog parameters - variables and fields” on page 60
- “Allocation overview” on page 69

Modifying the DRLFPROF dataset

The DRLFPROF dataset contains user modifiable parameters. A sample of the DRLFPROF data set is provided in member DRLFPROF in library SDRLCNTL. To customize DRLFPROF with your site specific values, allocate a data set with the name *userid*.DRLFPROF and copy in the sample DRLFPROF member from the SDRLCNTL library..

For a description of the fields that can be modified in the *userid*.DRLFPROF data set, see “Dialog parameters - variables and fields” on page 60.

When editing the *userid*.DRLFPROF data set, note that:

- TDS for z/OS regards any characters after the /* characters as comments. This means that /* JCL comments cannot be used. A closing */ is recommended but not required.
- The format for field assignment is: field-name = value [/* comment [*/]] except as noted below. No other tokens may be present. Tokens are case insensitive.
- Each field assignment must be completed on one line. Continuation is not supported.
- Any value (even integer values) can be given as a REXX-style string, delimited by the single (') or double (") quotation marks. Escaping of delimiter characters works in the same way as a REXX string.
- If a value does not begin with a ' or " character, only the first blank-separated word present after the = character is taken.
- Though sequence numbering in DRLFPROF may not cause errors, it is not supported and should be turned off.
- For the fields DEF_JCLSTA1, DEF_JCLSTA2, DEF_JCLSTA3 and DEF_JCLSTA4, the value is taken as any characters between the = and the '/*, or end of the line

Modifying the DRLFPROF dataset

- | if no comment is present. Delimiting this value with double quotation marks (")
- | is highly recommended but not required.
- | • If the above recommendations are adhered to, the DRLFPROF file syntax is a
- | subset of REXX syntax and so syntax highlighting can be used for easier editing.

Overview of the Dialog Parameters window

The parameters displayed in the Dialog Parameters window depend on whether your installation uses QMF. This section shows the parameters used when QMF is used. For an overview of the parameters used when QMF is not installed on your system, refer to Figure 19 on page 60.

Dialog Parameters when QMF is used

Figure 18 on page 59 is a logical view of the Dialog Parameters window, which is available from the System window of the administration dialog and from the Other pull-down of the reporting dialog. Tivoli Decision Support for z/OS users can change the personal settings that control their dialog sessions. For a description of the fields in this window, see "Dialog parameters - variables and fields" on page 60.

Overview of the Dialog Parameters window

```
Dialog Parameters

Type information.  Then press Enter to save and return.

More: +

DB2 subsystem name . . . . . DSN
DB2 plan name for TDS . . . . . DRLPLAN
Database name . . . . . DRLDB
Storage group default . . . . . DRLSG
Prefix for system tables . . . . . DRLSYS
Prefix for all other tables . . . . . DRL
Show TDS environment data . . . . . NO (YES or NO)

Buffer pool for data . . . . . BP0
Buffer pool for indexes . . . . . BP0

Users to grant access to . . . . . DRLUSER _____
                                     _____
                                     _____
                                     _____

SQL ID to use (in QMF) . . . . . DRLUSER
QMF language . . . . . PROMPTED (SQL or PROMPTED)
SYSOUT class (in QMF) . . . . . Q
Default printer . . . . . _____ (for graphic reports)
SQLMAX value . . . . . 5000

Reporting dialog mode . . . . . 1 1. End user mode
                                     2. Administrator mode

Dialog language . . . . . 1 1. English
                                     3. Japanese

DB2 data sets
  Prefix . . . . . DSN810
  Suffix . . . . . _____
QMF data sets prefix . . . . . QMF810

Tivoli Decision Support for z/OS data sets prefix . . . . . DRL181
Temporary data sets prefix . . . . . (user_ID substituted)

Local definitions data set . . . . . DRL.LOCAL.DEFS
Local GDDM formats data set . . . . . DRL.LOCAL.ADMCFORM
Local messages data set . . . . . DRL.LOCAL.MESSAGES
Saved reports data set . . . . . DRL.LOCAL.REPORTS
Saved charts data set . . . . . DRL.LOCAL.CHARTS

Job statement information (required for batch jobs):
//(user_ID substituted) JOB (000000,XXXX),'USER1',MSGLEVEL=(1,1),
//  NOTIFY=(user_ID substituted),MSGCLASS=Q,CLASS=E,REGION=4096K
//*

F1=Help   F2=Split   F7=Bkwd   F8=Fwd   F9=Swap   F12=Cancel
```

Figure 18. Dialog Parameters window, when QMF is used

Dialog Parameters when QMF is not used

Figure 19 on page 60 is a logical view of the Dialog Parameters window, which is available from the System window of the administration dialog and from the Other pull-down of the reporting dialog. Tivoli Decision Support for z/OS users can change personal settings that control their dialog sessions. For a description of the fields in this window, see “Dialog parameters - variables and fields” on page 60.

Dialog parameters - variables and fields

```
Dialog Parameters

Type information. Then press Enter to save and return.

More: +

DB2 subsystem name . . . . . DSN
DB2 plan name for TDS . . . . . DRLPLAN
Database name . . . . . DRLDB
Storage group default . . . . . DRLSG
Prefix for system tables . . . DRLSYS
Prefix for all other tables . DRL
Show TDS environment data . . NO (YES or NO)

Buffer pool for data . . . . . BP0
Buffer pool for indexes . . . . BP0

Users to grant access to . . DRLUSER _____
                                     _____
                                     _____
                                     _____

Batch print SYSOUT class . . A
Printer line count per page 60
SQLMAX value . . . . . 5000

Reporting dialog mode . . . . 1 1. End user mode
                               2. Administrator mode

Dialog language . . . . . 1 1. English
                               2. Japanese

DB2 data sets
  Prefix . . . . . DB2.V810
  Suffix . . . . .

TDS for zOS data
sets prefix . . . . . TDS181
Temporary data sets prefix (user_ID substituted)

Local defs data set . . . . . DRL.LOCAL.DEFS
Local User defs data set . . DRL.LOCAL.USER.DEFS
Local GDDM formats data set DRL.LOCAL.ADMCFORM
Local messages data set . . . DRL.LOCAL.MESSAGES
Saved reports data set . . . DRL.LOCAL.REPORTS
Saved charts data set . . . . DRL.LOCAL.CHARTS

Job statement information (required for batch jobs):

//(user_ID substituted) JOB (000000,XXXX),'USER1',MSGLEVEL(1,1),
//  NOTIFY=&SYSUID,MSGCLASS=Q,CLASS=E,REGION=4096K
//*
//*
F1=Help   F2=Split   F7=Bkwd   F8=Fwd    F9=Swap   F12=Cancel
```

Figure 19. Dialog Parameters window, when QMF is not used

Dialog parameters - variables and fields

Most variable names in *userid.DRLFPROF* and field names in the Dialog Parameters window are directly related. The following table describes the relationship between the variables and fields and describes how Tivoli Decision Support for z/OS uses the values to allocate libraries or control other dialog functions. It also describes variables and fields that do not have exact equivalents.

“Modifying the DRLFPROF dataset” on page 57 shows the user-modifiable area of the file that is processed at the product startup. The “Overview of the Dialog Parameters window” on page 58 shows the Dialog Parameters window. “Allocation overview” on page 69 describes the data sets allocated by Tivoli Decision Support for z/OS.

Dialog parameters - variables and fields

<i>userid</i> .DRLFPROF variable name	Dialog Parameters field name	Default value	Your value
modtenu	N/A	None	
The fully qualified name of the user tables' library, if any. The maximum supported value is 99999999.			
db2plib2	N/A	SDSNPFPP	
The DB2 panel library, which, depending on the value of db2def, is either a fully qualified name or a value that Tivoli Decision Support for z/OS appends to def_db2dspfx before appending def_db2dssfx.			
db2plibe	N/A	SDSNPFPE	
The English DB2 panel library, which, depending on the value of db2def, is either a fully qualified name or a value that Tivoli Decision Support for z/OS appends to def_db2dspfx before appending def_db2dssfx.			
db2plibk	N/A	SDSNPFPK	
The Japanese DB2 panel library, which, depending on the value of db2def, is either a fully qualified name or a value that Tivoli Decision Support for z/OS appends to def_db2dspfx before appending def_db2dssfx.			
qmfprint	N/A	YES	
Specifies whether the QMF output is saved in the DSQPRINT data set (YES) or in the SYSOUT class (NO).			
def_db2subs	DB2 subsystem name	DSN	
The DB2 subsystem where Tivoli Decision Support for z/OS resides.			
This required field can be 4 alphanumeric characters. The first character must be alphabetic.			
The default value is DSN. If the value in this field is something other than DSN, it was changed during installation to name the correct DB2 subsystem.			
Do not change the value to name another DB2 subsystem to which you might have access. Tivoli Decision Support for z/OS must use the DB2 subsystem that contains its system, control, and data tables.			
def_db2plan	DB2 plan name for TDS	DRLPLAN	
The DB2 plan name to which the distributed Tivoli Decision Support for z/OS for z/OS DBRM has been bound.			
This required field can be 8 alphanumeric characters. The first character must be alphabetic.			
The default value for this field is DRLPLAN. If the value in this field is something other than DRLPLAN, it may have been changed during installation to refer to a customized plan name for Tivoli Decision Support for z/OS.			
Only change the plan name shown here if instructed to do so by your Tivoli Decision Support for z/OS system administrator.			
def_dbname	Database name	DRLDB	
The DB2 database that contains all Tivoli Decision Support for z/OS system, control, and data tables. The value of this field is set during installation.			
This required field can be up to 8 alphanumeric characters. The first character must be alphabetic. The value of this field depends on the naming conventions at your site.			
The default database is DRLDB. If this value is something other than DRLDB, it is likely the default value for your site.			
Do not change this name to identify another DB2 database to which you have access. You must use the DB2 database that contains Tivoli Decision Support for z/OS.			
def_storgrp	Storage group default	DRLSG	
The storage group that Tivoli Decision Support for z/OS uses for the DB2 database identified in the Database name field.			
This required field can be 8 alphanumeric characters. The first character must be alphabetic.			
The default is DRLSG. If the value of the field is something other than DRLSG, it was changed during installation.			
Do not change the value of this field to another storage group to which you might have access; Tivoli Decision Support for z/OS uses the value of this field to create new tables.			
def_syspref	Prefix for system tables	DRLSYS	

Dialog parameters - variables and fields

<i>userid</i> .DRLFPROF variable name	Dialog Parameters field name	Default value	Your value
<p>The prefix of all Tivoli Decision Support for z/OS system and control DB2 tables. The value of this field depends upon your naming conventions and is determined during installation.</p> <p>This required field can be 8 alphanumeric characters. The first character must be alphabetic.</p> <p>The default is DRLSYS. If the value is something other than DRLSYS, it was changed during installation.</p> <p>Do not change the value; Tivoli Decision Support for z/OS uses this value to access its system tables.</p>			
def_othbpx	Prefix for all other tables	DRL	
<p>The prefix of Tivoli Decision Support for z/OS data tables in the DB2 database.</p> <p>Valid values are determined at installation.</p> <p>This required field can be 8 alphanumeric characters. The first character must be alphabetic.</p> <p>The default is DRL. If the value is something other than DRL, it was changed during installation.</p>			
def_drlshwid	Show TDS environment data	NO	
<p>Specifies whether or not to display the Tivoli Decision Support for z/OS environment data in the main panels.</p> <p>This required field can have a value of YES or NO.</p> <p>The default value for this field is NO.</p>			
def_tsbpool	Buffer pool for data	BP0	
<p>The default buffer pool for Tivoli Decision Support for z/OS tablespaces. This field can have values from BP0 to BP49, from BP8K0 to BP8K9, from BP16K0 to BP16K9, from BP32K to BP32K9. The buffer pool implicitly determines the page size. The buffer pools BP0, BP1, ..., BP49 hold 4-KB pages. The buffer pools BP8K0, BP8K1, ..., BP8K9 hold 8-KB pages. The buffer pools BP16K0, BP16K1, ..., BP16K9 hold 16-KB pages. The buffer pools BP32K, BP32K1, ..., BP32K9 hold 32-KB pages.</p>			
def_ixbpool	Buffer pool for indexes	BP0	
<p>The default buffer pool for Tivoli Decision Support for z/OS indexes. This field can have values from BP0 to BP49 (The buffer pool for indexes must identify a 4-KB buffer pool).</p>			
def_iduser1	Users to grant access to	DRLUSER	
<p>The user IDs or group IDs of users who are granted DB2 access to the next component you install. Users or user groups with DB2 access to a component have access to the tables and views of the component. You can specify up to 8 users or group IDs in these fields.</p> <p>You must specify a value for at least one of the fields.</p> <p>Each user ID or group ID can be 8 alphanumeric characters. The first character must not be numeric.</p> <p>The default is DRLUSER, as shipped by IBM. You can use any user group ID that is valid for your DB2 system. You should use one such group ID to define a list of core Tivoli Decision Support for z/OS users (who might include yourself). It is a good idea to leave such a core group as the value in one of the fields, regardless of whether you control user access to various components by adding other group IDs.</p> <p>You can grant users access to the tables and views of a component by listing them here before you install the component.</p> <p>Consider using RACF group IDs or DB2 secondary authorization IDs and specifying them in these fields before installing a component. It is easier to connect individual user IDs to an authorized group than it is to grant each individual access to each table or view that they need.</p>			
def_idsqlusr	SQL ID to use (in QMF)	DRLUSER	
<p>This field is used only if your installation uses QMF.</p> <p>The DB2 primary or secondary authorization ID to which you are connected. Tivoli Decision Support for z/OS uses the value of this field in the SET CURRENT SQLID as it starts QMF. The ID must have DB2 authorization to Tivoli Decision Support for z/OS tables and views.</p> <p>This required field can be up to 8 alphanumeric characters. The first character must be alphabetic.</p> <p>The default is DRLUSER. If the value is something other than DRLUSER, it was changed during installation.</p> <p>You can change this value to your user ID if you have DB2 authorization to Tivoli Decision Support for z/OS tables and views.</p>			

Dialog parameters - variables and fields

<i>userid</i> .DRLFPROF variable name	Dialog Parameters field name	Default value	Your value
def_qmflng	QMF language	PROMPTED	
<p>The QMF language for creating reports and queries, either SQL (structured query language) or PROMPTED QUERY.</p> <p>PROMPTED QUERY is the default QMF language for Tivoli Decision Support for z/OS.</p> <p>This is a required field, if your installation uses QMF.</p>			
def_qmfprt	SYSOUT class (in QMF)	Q	
<p>The SYSOUT class for report data sets that QMF generates, or for output that QMF routes to a printer. The default value is Q.</p> <p>This is a required field, if your installation uses QMF.</p>			
def_printer	Default printer	blank	
<p>The GDDM nickname of a printer to use for printing graphic reports. The printer should be one capable of printing GDDM-based graphics.</p> <p>The printer name must be defined in the GDDM nicknames file, allocated to the ADMDEFS ddname. Refer to <i>QMF: Reference</i> and <i>GDDM User's Guide</i> for more information about defining GDDM nicknames.</p>			
def_drlprt	Batch print SYSOUT class	A	
<p>This field is used only if your installation does not use QMF.</p> <p>A valid SYSOUT class for printing tabular reports in batch. Valid values are A-Z, 0-9, and *.</p>			
def_pagelen	Printer line count per page	60	
<p>This field is used only if your installation does not use QMF.</p> <p>The number of report lines that should be printed on each page when you print tabular reports online and in batch.</p>			
def_drlmax	SQLMAX value	5000	
<p>The maximum number of rows for any single retrieval from a Tivoli Decision Support for z/OS table when using a Tivoli Decision Support for z/OS-DB2 interface for such functions as listing tables, reports, or log definitions.</p> <p>The value of this required field is the maximum allowed size of the Tivoli Decision Support for z/OS DB2 table to be retrieved. The default value is 5000 rows of data.</p>			
def_rptdiag	Reporting dialog mode	1	
<p>The dialog mode for using the reporting dialog. Any option you save applies to future sessions.</p> <p>You can choose administrator mode to access reports belonging to all users if you have a Tivoli Decision Support for z/OS administrator authority. You can choose end user mode to access reports that you have created or that have been created for you (including public reports).</p> <p>Type 1 to use end user mode or 2 to specify administrator mode. If you leave the field blank, the default is end user mode.</p>			
N/A	Dialog language	1	
<p>The language in which Tivoli Decision Support for z/OS displays all its windows.</p> <p>Tivoli Decision Support for z/OS supports those languages listed in the window. Choose the language your site has installed.</p> <p>If you leave this field blank, Tivoli Decision Support for z/OS displays its windows in English.</p> <p>Any changes you make to this field become effective in your next dialog session, when Tivoli Decision Support for z/OS allocates its libraries.</p>			
def_db2dspfx	DB2 data sets-prefix	DSN710	

Dialog parameters - variables and fields

<i>userid</i> .DRLFPROF variable name	Dialog Parameters field name	Default value	Your value
<p>The prefix to which Tivoli Decision Support for z/OS appends DB2 data set names as it performs tasks.</p> <p>This field is required if db2def is SUFFIX. If db2def is DATASET, this field is ignored.</p> <p>This field can be 35 alphanumeric characters.</p> <p>Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic.</p> <p>The default is DB2.V810. If the value of this field is something other than DB2.V810, it was changed during installation.</p> <p>Any changes you make to this field become effective in your next session, when Tivoli Decision Support for z/OS allocates DB2 libraries and data sets.</p>			
DB2 data sets-suffix	def_db2dssfx	blank	
<p>The suffix that Tivoli Decision Support for z/OS appends as the low-level qualifier for DB2 data sets that Tivoli Decision Support for z/OS uses. Most sites do not use a DB2 data set suffix, but this depends on your DB2 naming conventions.</p> <p>This field can be used if db2def is SUFFIX. If db2def is DATASET, this field is ignored.</p> <p>This field can be 35 alphanumeric characters.</p> <p>Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic.</p> <p>Your Tivoli Decision Support for z/OS administrator can set a default value for this field if it is in use at your site. If the field is blank, it is very likely not in use.</p> <p>Do not use this field to qualify data sets that you create; this is not its purpose. Use it to identify DB2 modules only.</p> <p>Any changes you make to this field are not effective until your next invocation of the dialog, when Tivoli Decision Support for z/OS has a chance to reallocate DB2 libraries and data.</p>			
def_qmfdspfx	QMF data sets prefix	QMF710	
<p>This field is used only if your installation uses QMF. The prefix to which Tivoli Decision Support for z/OS appends all QMF data set names. This includes all QMF libraries allocated by the dialog during invocation. It also includes all QMF queries and forms.</p> <p>If qmfdef is SUFFIX, this field is required. If qmfdef is DATASET, this field is ignored.</p> <p>This field can be up to 35 alphanumeric characters. Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic.</p> <p>The default is DB2.V810. If the value is something other than DB2.V810, it was changed during installation.</p> <p>Do not use this value to identify your personal QMF data sets. Tivoli Decision Support for z/OS uses this value for all QMF data sets.</p> <p>Any changes you make to this field become effective in your next session, when Tivoli Decision Support for z/OS allocates its libraries.</p>			
def_dsnpref	Tivoli Decision Support for z/OS data sets prefix	DRL181	
<p>The prefix of Tivoli Decision Support for z/OS libraries.</p> <p>This required field can be up to 35 alphanumeric characters.</p> <p>Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic.</p> <p>The default is DRL181. If the value of this field is something other than DRL181, it was changed during installation.</p> <p>Any changes you make to this field become effective in your next session, when Tivoli Decision Support for z/OS allocates its libraries.</p>			
No equivalent	Temporary data sets prefix	<i>user_ID</i>	

Dialog parameters - variables and fields

<i>userid</i> .DRLFPROF variable name	Dialog Parameters field name	Default value	Your value
			<p>The prefix for any temporary data sets you create while using Tivoli Decision Support for z/OS.</p> <p>This required field can be up to 35 alphanumeric characters.</p> <p>Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic.</p> <p>The default value is your user_ID or the TSO_prefix.user_ID.</p>
def_dsnlocdn	Local definitions data set	DRL.LOCAL.DEFS	
			<p>The partitioned data set (PDS) that contains definitions of Tivoli Decision Support for z/OS objects you have created. The value of this field depends on naming conventions that apply to Tivoli Decision Support for z/OS.</p> <p>The members of this PDS contain definition statements that define new objects to Tivoli Decision Support for z/OS. Tivoli Decision Support for z/OS uses the value of this field to locate local definition members.</p> <p>This optional field can be 44 alphanumeric characters.</p> <p>Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic.</p> <p>The default PDS is DRL.LOCAL.DEFS. Your administrator can set a different default for this field during installation. Do not change the value that your Tivoli Decision Support for z/OS administrator sets.</p> <p>Any changes you make to this field are not effective until you start the dialog again, when Tivoli Decision Support for z/OS reallocates local definition data sets.</p>
def_usrlocdn	Local User alter/definitions data set	DRL.LOCAL.USER.DEFS	
			<p>The partitioned data set (PDS) that contains definitions of Tivoli Decision Support for z/OS objects you have modified. The value of this field depends on naming conventions that apply to Tivoli Decision Support for z/OS. idd:break> idd:break> idd:break>The members of this PDS contain definition statements that define user modified objects to Tivoli Decision Support for z/OS. This PDS also contains members with alter statements built by the update processor on the definitions contained in the same PDS. Tivoli Decision Support for z/OS uses the value of this field to locate local user definition members. idd:break> idd:break> idd:break>This optional field can be 44 alphanumeric characters. Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic. idd:break> idd:break> idd:break>The default PDS is DRL.LOCAL.USER.DEFS. Your administrator can set a different default for this field during installation. Do not change the value that your Tivoli Decision Support for z/OS administrator sets. idd:break> idd:break> idd:break>Any changes you make to this field are not effective until you start the dialog again, when Tivoli Decision Support for z/OS reallocates local definition data sets.</p>
def_modform	The local GDDM formats data set	DRL.LOCAL.ADMCFORM	
			<p>The data set where you keep your GDDM formats for graphic reports.</p>
def_drmsgs	Local messages data set	DRL.LOCAL.MESSAGES	
			<p>Use this field to identify a PDS that contains messages generated by users during communication with Tivoli Decision Support for z/OS administrators.</p> <p>The value of this field depends on naming conventions that your Tivoli Decision Support for z/OS administrator has established.</p> <p>This required field can be up to 44 alphanumeric characters.</p> <p>Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic.</p> <p>Any changes you make to this field are not effective until you start the dialog again, when Tivoli Decision Support for z/OS reallocates the message data set.</p>
def_dsnreprt	Saved reports data set	DRL.LOCAL.REPORTS	

Dialog parameters - variables and fields

<i>userid</i> .DRLFPROF variable name	Dialog Parameters field name	Default value	Your value
<p>The PDS where Tivoli Decision Support for z/OS saves your tabular reports.</p> <p>This optional field can be up to 44 alphanumeric characters.</p> <p>Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic.</p> <p>The default PDS is DRL.LOCAL.REPORTS.</p>			
def_dsncrfts	Saved charts data set	DRL.LOCAL.CHARTS	
<p>The PDS where Tivoli Decision Support for z/OS saves the graphic reports you choose to save.</p> <p>This optional field can be up to 44 alphanumeric characters.</p> <p>Names longer than 8 characters must be in groups of not more than 8 characters, separated by periods. The first character of each group must be alphabetic.</p> <p>The default PDS is DRL.LOCAL.ADMGDF.</p>			
def_jclsta1, def_jclsta2, def_jclsta3, def_jclsta4	Job statement information (required for batch jobs)	Sample job card in which Tivoli Decision Support for z/OS dynamically substitutes the user ID.	
<p>The job statement information to be used for batch jobs that the dialogs create for you.</p> <p>You must use correct JCL in the job statement. Tivoli Decision Support for z/OS does not validate job statement information.</p> <p>Do not use JCL comments in these JCL statements.</p> <p>You can specify up to four card images in these job statement fields.</p> <p>The first "/" card image should contain the job name. Press Enter to save any job statements for all future sessions.</p>			
bkmgr_mlib	N/A	EOY.SEOYMENU	
The BookManager message library.			
bkmgr_plib	N/A	EOY.SEOYPENU	
The BookManager panel library.			
bkmgr_tlib	N/A	EOY.SEOYTENU	
The BookManager tables library.			
drl1sh00	N/A	IBMBK.DRL1SH00. BKSHELF	
<p>The Tivoli Decision Support for z/OS BookManager bookshelf that contains the names of Tivoli Decision Support for z/OS online books. Change this to reflect the name used in your installation. For example, you might have to increment the 00 in DRL1SH00 because you have installed a newer version of the online books and bookshelf.</p> <p>If you do not plan to use BookManager, change the value of this field to blank.</p>			
dsnsufx	N/A	SDRLDEFS	
The Tivoli Decision Support for z/OS definitions data set suffix.			
execsfx	N/A	SDRLEXEC	
The Tivoli Decision Support for z/OS exec data set suffix.			
loadsfx	N/A	SDRLLOAD	
The Tivoli Decision Support for z/OS load library suffix.			
skelsfx	N/A	SDRLSKEL	
The Tivoli Decision Support for z/OS skeleton data set suffix.			
eng_lib_sfx	N/A	ENU	
The English library suffix.			
jpn_lib_sfx	N/A	JPN	
The Japanese library suffix.			
def_nlslang	N/A	eng_lib_sfx	

Dialog parameters - variables and fields

<i>userid</i> .DRLFPROF variable name	Dialog Parameters field name	Default value	Your value
The national language library suffix.			
repsufx	N/A	"SDRLR"+def_nlslang	
The Tivoli Decision Support for z/OS report definitions library suffix.			
plibsfx	N/A	"SDRLP"+def_nlslang	
The Tivoli Decision Support for z/OS panel library suffix.			
messsfx	N/A	"SDRLM"+def_nlslang	
The Tivoli Decision Support for z/OS message library suffix.			
formsfx	N/A	"SDRLF"+def_nlslang	
The Tivoli Decision Support for z/OS GDDM formats library suffix.			
eng_qmf_sfx	N/A	E	
The English library suffix.			
jpn_qmf_sfx	N/A	K	
The Kanji-Japanese library suffix.			
def_qmflang	N/A	eng_qmf_sfx	
The national language default library suffix.			
qmfdef	N/A	SUFFIX	
<p>The method of describing QMF library names to Tivoli Decision Support for z/OS, either SUFFIX or DATASET.</p> <p>If qmfdef is SUFFIX (the default), Tivoli Decision Support for z/OS implements the QMF library naming standard, requiring a prefix for QMF data sets (def_qmfdspfx) and a suffix (described below). Tivoli Decision Support for z/OS appends each suffix to the QMF prefix to identify QMF libraries, which it then allocates.</p> <p>If qmfdef is DATASET, Tivoli Decision Support for z/OS does not use a prefix or suffix and you must specify fully-qualified data set names for the QMF library variables described below.</p> <p>In either case, Tivoli Decision Support for z/OS uses the next several variables to allocate QMF libraries.</p>			
qmfclib	N/A	SDSQCLST+def_qmflang	
The QMF CLIST library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx.			
qmfclibe	N/A	SDSQCLST+eng_qmf_sfx	
The English QMF CLIST library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx. Tivoli Decision Support for z/OS requires this library even though you might be using another language.			
qmfelib	N/A	SDSQEXEC+def_qmflang	
The QMF EXEC library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx.			
qmfelibe	N/A	SDSQEXEC+eng_qmf_sfx	
The English QMF EXEC library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx. Tivoli Decision Support for z/OS requires this library even though you might be using another language.			
qmfplib	N/A	SDSQPLIB+def_qmflang	
The QMF panel library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx.			
qmfmlib	N/A	SDSQMLIB+def_qmflang	
The QMF message library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx.			
qmfslib	N/A	SDSQSLIB+def_qmflang	
The QMF skeleton library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx.			
qmfmap	N/A	SDSQMAP+def_qmflang	

Dialog parameters - variables and fields

<i>userid</i> .DRLFPROF variable name	Dialog Parameters field name	Default value	Your value
The ADMGGMAP library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx.			
qmfpln	N/A	DSQPNL+def_qmflang	
The QMF panel library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx.			
dsqpln	N/A	DSQPNL+def_qmflang	
The ddname of QMF DSQPNLx library. Even if you use fully-qualified data set names to identify QMF data sets, you must specify the ddname of your DSQPNLx library as the value of this variable.			
qmffload	N/A	SDSQLOAD	
The QMF load library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx.			
qmfchart	N/A	DSQCHART	
The ADMCFORM library, which (depending on the value of qmfdef), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_qmfdspfx.			
qmfdsdum	N/A	DUMMY	
The fully-qualified name of the data set to be allocated to ddname DSQDUMP, or DUMMY.			
qmfddebug	N/A	DUMMY	
The fully-qualified name of the data set to be allocated to ddname DSQDEBUG, or DUMMY.			
dsunit	N/A	SYSDA	
The disk unit.			
db2ver	N/A	8	
The version of DB2.			
db2rel	N/A	1	
The release of DB2.			
db2def	N/A	SUFFIX	
The method of describing DB2 library names to Tivoli Decision Support for z/OS, either SUFFIX or DATASET. If db2def is SUFFIX (the default), Tivoli Decision Support for z/OS implements the DB2 library naming standard, requiring a prefix for DB2 data sets (def_db2dspfx), a library name, and an optional suffix (def_db2dssfx). If db2def is DATASET, Tivoli Decision Support for z/OS does not use a prefix or a suffix and you must specify fully-qualified data set names for the DB2 library variables described below. In either case, Tivoli Decision Support for z/OS uses the next several variables to allocate DB2 libraries.			
db2llib	N/A	RUNLIB.LOAD	
The DB2 runlib load library name, which (depending on the value of db2def), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_db2dspfx before appending def_db2dssfx.			
db2load	N/A	SDSNLOAD	
The DB2 load library, which (depending on the value of db2def), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_db2dspfx before appending def_db2dssfx.			
db2clst	N/A	SDSNCLIST	
The DB2 CLIST library, which (depending on the value of db2def), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_db2dspfx before appending def_db2dssfx.			
db2mlib	N/A	SDSNSPFM	
The DB2 message library, which (depending on the value of db2def), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_db2dspfx before appending def_db2dssfx.			
db2plib	N/A	SDSNSPFP	
The DB2 panel library, which (depending on the value of db2def), is the fully-qualified name or is a value that Tivoli Decision Support for z/OS appends to def_db2dspfx before appending def_db2dssfx.			
gddmload	N/A	GDDM.SADMMOD	
The GDDM load library.			

Dialog parameters - variables and fields

<i>userid</i> .DRLFPROF variable name	Dialog Parameters field name	Default value	Your value
admsymb1	N/A	GDDM.SADMSYM	
The GDDM symbols library.			
admdefs	N/A	SYS1.GDDMNICK	
The GDDM nicknames library.			
admprntq	N/A	None	
The data set name of the GDDM master print queue, if any. This overrides any value specified for TSOPRNT in the GDDM external defaults file. If you supply a value, Tivoli Decision Support for z/OS adds an ADMPRNTQ DD statement to the batch JCL for graphic reports.			
def_geapplid	N/A	zuser	
The application ID (usually sent as a TSO user ID) that has an assigned Information/Management privilege class. The default is the user ID of the Tivoli Decision Support for z/OS user.			
def_gesessn	N/A	BLGSES00	
The session member (module) used to start an Information/Management session.			
def_geprivcl	N/A	MASTER	
The privilege class specified in an Information/Management group record.			
VIEWER	N/A	NO	
Specifies and enables the use of the Viewer. This parameter should be YES, unless you never use the Viewer. If the value here is YES, you can also run your own reports any time in the future in the Viewer application. Any other value than YES or NO causes Tivoli Decision Support for z/OS to use YES.			
qmfuse	N/A	YES	
Specifies if QMF is used with Tivoli Decision Support for z/OS in your installation. Any other value than YES or NO causes Tivoli Decision Support for z/OS to use YES.			
gddmuse	N/A	YES	
Specifies if GDDM is used with Tivoli Decision Support for z/OS in your installation. (If QMF is used, GDDM must be used.) If GDDM is not used, reports are always shown in tabular format. Any other value than YES or NO causes Tivoli Decision Support for z/OS to use YES.			
decsep	N/A	PERIOD	
When generating tabular reports without QMF, Tivoli Decision Support for z/OS uses period as decimal separator and comma as thousands separator. You can exchange the decimal and thousands separators by specifying decsep="COMMA". In that case, period is used as thousands separator. Any other value of decsep causes Tivoli Decision Support for z/OS to use period as a decimal separator.			
subhdrv	N/A	N	
This value is used only for QMF (where qmfuse='YES'). Specify Y if you want Tivoli Decision Support for z/OS to replace empty variables in the report header with a text string. You specify the text string using F11 on the Data Selection panel, or when you get message DRLA171. Note: Replacing empty variables increases the time taken to generate a report. Specify N to leave the empty variable in the report.			

Allocation overview

This section describes the data sets allocated by Tivoli Decision Support for z/OS.

Library type or data set ddname	Library or data set	Allocated by (EPDM exec)
Tivoli Decision Support for z/OS allocates the following libraries as a user starts a Tivoli Decision Support for z/OS dialog:		
ISPPLIB	<ul style="list-style-type: none"> Tivoli Decision Support for z/OS panel library QMF panel library DB2 panel library 	DRLEINI1

Allocation overview

Library type or data set ddname	Library or data set	Allocated by (EPDM exec)
ISPTLIB	<ul style="list-style-type: none"> Tivoli Decision Support for z/OS tables library QMF tables library BookManager tables library 	DRLEINI1
ISPMLIB	<ul style="list-style-type: none"> Tivoli Decision Support for z/OS message library QMF message library DB2 message library 	DRLEINI1
ISPLLIB	<ul style="list-style-type: none"> Tivoli Decision Support for z/OS load library QMF load library 	DRLEINI1
ISPSLIB	<ul style="list-style-type: none"> Tivoli Decision Support for z/OS skeleton library QMF skeleton library 	DRLEINI1
Tivoli Decision Support for z/OS allocates the following data sets as a user starts a Tivoli Decision Support for z/OS dialog:		
DRLTABL	Userprefix.DRLTABL (for values in query variables)	DRLEINI1
ADMGDF	Saved charts data set	DRLEINI1
DRLMSGDD	Tivoli Decision Support for z/OS user message data set (drlmsgs)	DRLEINI1
Tivoli Decision Support for z/OS allocates the following libraries as a user starts a Tivoli Decision Support for z/OS function that uses QMF:		
SYSPROC	QMF CLIST library (def_qmfdspfx.qmfclib+E)	DRLEQMF
SYSEXEC	QMF exec library (def_qmfdspfx.qmfelib+E)	DRLEQMF
ADMGGMAP	SDSQMAP library (def_qmfdspfx.qmfmap)	DRLEQMF
ADMCFORM	Saved forms data set + DSQCHART library (dsnpref.formsfx + def_qmfdspfx.qmfchart)	DRLEQMF
DSQUCFRM	Saved forms data set	DRLEQMF
DSQPNLE	QMF panel library	DRLEQMF
DSQPRINT	QMF sysout class (qmfprt)	DRLEQMF
DSQPILL	NEW DELETE (temporary file allocation)	DRLEQMF
DSQEDIT	NEW DELETE (temporary file allocation)	DRLEQMF
DSQDEBUG	(qmfdebug)	DRLEQMF
DSQUDUMP	(qmfdsdum)	DRLEQMF
Tivoli Decision Support for z/OS allocates the following library as a user starts a Tivoli Decision Support for z/OS function that uses GDDM:		
ADMSYMBL	GDDM symbols data set	DRLEINI1
Tivoli Decision Support for z/OS allocates the following libraries when a table or report is displayed without QMF:		
DRLTAB	Userprefix.DRLTAB (for table display)	DRLEADIT
DRLREP	Userprefix.DRLREP (for report display)	DRLERDIR
Tivoli Decision Support for z/OS allocates the following library as a user starts DB2 Interactive (DB2I) from Tivoli Decision Support for z/OS:		
SYSPROC	DB2 CLIST library (db2dspfx.db2clst)	DRLEDB2I

Chapter 4. Overview of Tivoli Decision Support for z/OS objects

This chapter describes how a feature definition member is used to update system tables. It then describes how Tivoli Decision Support for z/OS uses the resulting component definitions to install a component's objects. This chapter also describes how to create and change definitions with both the dialog and Tivoli Decision Support for z/OS's log collector language.

For more information about the log collector language and report definition language statements, see the *Language Guide and Reference*.

This chapter uses the Sample component as the basis of most of its examples. For more information, see Chapter 18, "Sample components," on page 317.

For information on the naming convention for TDS for z/OS definition members, see Chapter 5, "Naming convention for Tivoli Decision Support for z/OS definition members," on page 81.

How Tivoli Decision Support for z/OS component installation works

Component installation starts with the SMP/E installation of a feature's definition members in the DRL181.SDRLDEFS library. Tivoli Decision Support for z/OS features provide definition members that update the Tivoli Decision Support for z/OS system tables with information about the definitions in a feature.

Defining definition library members with SQL

Before installing TDS for z/OS components, you must create or update the system tables. When you do this from the dialog or in batch, the DRLxxxx members, in the DRL181.SDRLDEFS library, contain SQL statements that are executed.

Figure 20 on page 72 shows the DRLxxxx definition member for the Sample component. These members use the SQL log collector language statement to pass an SQL statement to DB2.

```

/*****/
/* Sample Component */
/*****/
SQL INSERT INTO &SYSPREFIX.DRLCOMPONENTS
  (COMPONENT_NAME, DESCRIPTION, USER_ID)
  VALUES('SAMPLE', 'Sample Component', USER);
/*****/
/* Log and record definitions */
/*****/
SQL INSERT INTO &SYSPREFIX.DRLCOMP_OBJECTS
  (COMPONENT_NAME, OBJECT_TYPE, OBJECT_NAME, MEMBER_NAME)
  VALUES('SAMPLE', 'LOG', 'SAMPLE', 'DRLLSAMP');
:
:
/*****/
/* Tablespace, table, and update definitions */
/*****/
SQL INSERT INTO &SYSPREFIX.DRLCOMP_OBJECTS
  (COMPONENT_NAME, OBJECT_TYPE, OBJECT_NAME, MEMBER_NAME)
  VALUES('SAMPLE', 'TABLESPACE', 'DRLSSAMP', 'DRLSSAMP');
:
:
/*****/
/* Report and report group definitions */
/*****/
SQL INSERT INTO &SYSPREFIX.DRLCOMP_OBJECTS
  (COMPONENT_NAME, OBJECT_TYPE, OBJECT_NAME, MEMBER_NAME)
  VALUES('SAMPLE', 'REPGROUP', 'SAMPLE', 'DRLOSAMP');
:
:

```

Figure 20. Tivoli Decision Support for z/OS definition member DRLISAMP, setting component definitions

Executing these statements populates the TDS system tables with component definitions. These component definitions describe the installable components and the SDRLDEFS members that can be used to install the component.

How Tivoli Decision Support for z/OS controls object replacement

Once the system tables have been updated with the installation members, you must reinstall all affected components in order to replace all objects. Each component installed is controlled by a variable VERSION which is specified in the DEFINE statements and a corresponding column VERSION is included in the Tivoli Decision Support for z/OS system tables where Tivoli Decision Support for z/OS objects are defined.

During the installation of the Tivoli Decision Support for z/OS components, a preprocessor checks each definition member to see if an object already exists (from the installation of an earlier level of the Tivoli Decision Support for z/OS component).

If the object *does not* already exist, the DEFINE statement for this object is passed to the Tivoli Decision Support for z/OS log collector.

If the object *does* already exist, and providing the variable VERSION is specified in the DEFINE statement for the object, then the values of VERSION in the DEFINE statement and in the system table where the object is defined, are compared. If the values of VERSION are the same, the log collector replaces the DEFINE statement for the object with a comment, saying that the most recent version of the object

already exists in the system table. If the values of VERSION are different, the log collector inserts a DROP statement. This DROP statement drops the object so that it can be redefined.

Note: Tivoli Decision Support for z/OS only checks the VERSION variable when you install using option 2 Components.

All Tivoli Decision Support for z/OS log, record, record procedure, and update objects shipped with the product contain the VERSION variable, which takes the value:

IBM.xxx

where xxx corresponds to the product version. For example, IBM.171 indicates objects created or modified by Tivoli Decision Support for z/OS 1.7.1. If an object is modified by an APAR, then the APAR number is used as the VERSION variable, for example, VERSION 'PK28980'.

How Tivoli Decision Support for z/OS determines installation order

After Tivoli Decision Support for z/OS stores the names of a feature's component objects and definition members in the system tables, you can use the dialog to install the feature's components. Tivoli Decision Support for z/OS queries the system tables to determine the names of definition members in the DRL181.SDRLDEFS, DRL181.SDRLRxxx, and DRL181.SDRLFxxx libraries. (xxx is ENU for the English language version of Tivoli Decision Support for z/OS and JPN for the Japanese version.)

Tivoli Decision Support for z/OS requires some definitions to exist before it can install others. For example, if a component contains a record procedure, Tivoli Decision Support for z/OS must install the record definition that maps the source record for the record procedure before installing the record procedure. Furthermore, Tivoli Decision Support for z/OS must install the record procedure before installing the record definition that maps the record procedure's output. The definition members that Tivoli Decision Support for z/OS supplies often combine several definitions in the same member to ensure their order of installation.

Table 5 shows the order in which Tivoli Decision Support for z/OS installs a feature's definitions.

Table 5. Order of installation of feature definition members

Order	Member naming convention	Definition types
1	DRLxxxx	Logs.
2	DRLRxxx	Records and record procedures. Record definitions mapping record procedure input must appear before the associated record procedure definition. Record definitions mapping record procedure output must appear after the associated record procedure definition.
3	DRLSxxx	Tablespaces.
4	DRLTxxx	Lookup tables, tables, updates, and views. Lookup tables and tables must be defined before update definitions that refer to them. Tables must also be defined before views that refer to them.
5	DRLUxxx	Updates (also found in DRLTxxx members).
6	DRLVxxx	Views (also found in DRLTxxx members).

Defining objects

Table 5. Order of installation of feature definition members (continued)

Order	Member naming convention	Definition types
7	DRLOxxx	Report groups and reports. Report groups must be defined before the report definitions that reference them.

The order of installation within a definition type is determined by the sort sequence of the definition member names. The examples that follow appear in the same order that Tivoli Decision Support for z/OS would install them.

Defining logs with log collector language

DRLxxx members of the DRL181.SDRLDEFS library define log types to Tivoli Decision Support for z/OS. Figure 21 shows the definition member for the SAMPLE log type.

```
DEFINE LOG SAMPLE VERSION 'IBM.110';  
  
COMMENT ON LOG SAMPLE IS 'Sample log definition';
```

Figure 21. Tivoli Decision Support for z/OS definition member DRLLSAMP, defining a log type

Defining records with log collector language

DRLRxxx members of the DRL181.SDRLDEFS library define record types to Tivoli Decision Support for z/OS. Figure 22 shows the definition for the SAMPLE_01 record type. (Chapter 19, "Record definitions supplied with Tivoli Decision Support for z/OS," on page 323 describes Tivoli Decision Support for z/OS record definitions.)

```
DEFINE RECORD SAMPLE_01  
  VERSION 'IBM.110'  
  IN LOG SAMPLE  
  IDENTIFIED BY S01TYPE = '01'  
  FIELDS  
    (S01TYPE OFFSET 4 LENGTH 2 CHAR,  
     S01DATE OFFSET 7 DATE(MMDDYY),  
     S01TIME OFFSET 14 TIME(HHMMSS),  
     S01SYST OFFSET 21 LENGTH 4 CHAR,  
     S01USER OFFSET 26 LENGTH 8 CHAR,  
     S01TRNS OFFSET 35 LENGTH 6 EXTERNAL INTEGER,  
     S01RESP OFFSET 42 LENGTH 6 EXTERNAL INTEGER,  
     S01CPU OFFSET 49 LENGTH 6 EXTERNAL INTEGER,  
     S01PRNT OFFSET 56 LENGTH 6 EXTERNAL INTEGER);  
  
COMMENT ON RECORD SAMPLE_01 IS 'Sample record type 01';
```

Figure 22. Tivoli Decision Support for z/OS definition member DRLRSAMP, defining a record type

Defining tablespaces

DRLSxxx members of the DRL181.SDRLDEFS library define tablespaces to Tivoli Decision Support for z/OS. Figure 23 on page 75 shows the definition for the DRLSSAMP tablespace of the Sample component. (Tivoli Decision Support for z/OS defines at least one tablespace per component to contain all the component's

tables.)

```
SQL CREATE TABLESPACE DRLSSAMP
  IN &DATABASE
  USING STOGROUP &STOGROUP
    PRIQTY 60
    SECQTY 30
  SEGSIZE 8
  BUFFERPOOL &TSBUFFERPOOL
  LOCKSIZE TABLE;
```

Figure 23. Tivoli Decision Support for z/OS definition member *DRLSSAMP*, defining a tablespace

Defining tables and updates

DRLTxxx members of the *DRL181.SDRLDEFS* library define tables and updates to Tivoli Decision Support for z/OS. These members use the SQL log collector language statement to create tables in the Tivoli Decision Support for z/OS database, populate lookup tables, and grant access to the tables. They also use the *DEFINE UPDATE* log collector language statement to create update definitions in Tivoli Decision Support for z/OS system tables. To give an example, Figure 24 on page 76 and Figure 25 on page 77 show the definition for tables (that includes the lookup table) and updates of the Sample component, *DRLTSAMP*. Figure 24 on page 76 uses the SQL log collector language statement and Figure 25 on page 77 uses the *DEFINE UPDATE* log collector language statement.

Defining objects

```

/*****
/* Define table SAMPLE_USER
/*****
SQL CREATE TABLE &PREFIX.SAMPLE_USER
  (USER_ID          CHAR(8) NOT NULL,
   DEPARTMENT_NAME CHAR(8) NOT NULL,

   PRIMARY KEY (USER_ID))
  IN &DATABASE.DRLSSAMP;

SQL CREATE UNIQUE INDEX &PREFIX.SAMPUSER_IX
  ON &PREFIX.SAMPLE_USER
  (USER_ID)
  USING STOGROUP &STOGROUP.
  PRIQTY 12
  SECQTY 4
  CLUSTER
  BUFFERPOOL &IXBUFFERPOOL;
/*****
/* Define comments for SAMPLE_USER
/*****
SQL COMMENT ON TABLE &PREFIX.SAMPLE_USER
  IS 'This lookup table assigns department names to users.';

SQL COMMENT ON &PREFIX.SAMPLE_USER
  (USER_ID          IS 'User ID.',
   DEPARTMENT_NAME IS 'Department name.');
```

```

/*****
/* Grant users read access to SAMPLE_USER
/*****
SQL GRANT SELECT ON &PREFIX.SAMPLE_USER TO &USERS.;
/*****
/* Insert data in SAMPLE_USER
/*****
SQL INSERT INTO &PREFIX.SAMPLE_USER
  VALUES('ADAMS  ', 'App1 Dev');
:
:
/*****
/* Define table SAMPLE_H
/*****
SQL CREATE TABLE &PREFIX.SAMPLE_H
  (DATE          DATE NOT NULL,
   TIME         TIME NOT NULL,
   SYSTEM_ID    CHAR(4) NOT NULL,
   DEPARTMENT_NAME CHAR(8) NOT NULL,
   USER_ID      CHAR(8) NOT NULL,
   TRANSACTIONS INTEGER,
   RESPONSE_SECONDS INTEGER,
   CPU_SECONDS  FLOAT,
   PAGES_PRINTED INTEGER,
   PRIMARY KEY (DATE, TIME, SYSTEM_ID, DEPARTMENT_NAME, USER_ID))
  IN &DATABASE.DRLSSAMP;
```

Figure 24. Tivoli Decision Support for z/OS definition member DRLTSAMP, defining tables and updates (Part 1 of 2)

```

:
/* *****/
/* Define update from record SAMPLE_01 */
/* *****/
DEFINE UPDATE SAMPLE_01_H
  VERSION 'IBM.110'
  FROM SAMPLE_01
  TO &PREFIX.SAMPLE_H
  GROUP BY
    (DATE          = S01DATE,
     TIME          = ROUND(S01TIME,1 HOUR),
     SYSTEM_ID     = S01SYST,
     DEPARTMENT_NAME = VALUE(LOOKUP DEPARTMENT_NAME
                           IN &PREFIX.SAMPLE_USER
                           WHERE S01USER = USER_ID,
                           '?'),
     USER_ID       = S01USER)
  SET
    (TRANSACTIONS = SUM(S01TRNS),
     RESPONSE_SECONDS = SUM(S01RESP),
     CPU_SECONDS = SUM(S01CPU/100.0),
     PAGES_PRINTED = SUM(S01PRNT));
:
/* *****/
/* Define update from SAMPLE_H */
/* *****/
DEFINE UPDATE SAMPLE_H_M
  VERSION 'IBM.110'
  FROM &PREFIX.SAMPLE_H
  TO &PREFIX.SAMPLE_M
  GROUP BY
    (DATE          = SUBSTR(CHAR(DATE),1,8) || '01',
     SYSTEM_ID     = SYSTEM_ID,
     DEPARTMENT_NAME = DEPARTMENT_NAME,
     USER_ID       = USER_ID)
  SET
    (TRANSACTIONS = SUM(TRANSACTIONS),
     RESPONSE_SECONDS = SUM(RESPONSE_SECONDS),
     CPU_SECONDS = SUM(CPU_SECONDS),
     PAGES_PRINTED = SUM(PAGES_PRINTED));

```

Figure 25. Tivoli Decision Support for z/OS definition member DRLTSAMP, defining tables and updates (Part 2 of 2)

Defining updates and views

DRLUxxxx members of the DRL181.SDRLDEFS library define updates not previously defined in DRLTxxxx definition members. For example, member DRLUMVAV in the DRL181.SDRLDEFS library defines updates from record types SMF_030 and SMF_070 to the AVAILABILITY_T table.

DRLVxxxx members of the DRL181.SDRLDEFS library define views not previously defined in DRLTxxxx definition members. For example, member DRLVC901 in the DRL181.SDRLDEFS library defines views on the CICS_T_TRAN_T table for CICS unit-of-work processing.

Defining reports

DRLOxxxx members of the DRL181.SDRLRENU library use report definition language to define report groups and reports in Tivoli Decision Support for z/OS system tables. Report definition members are contained in national-language-specific definition libraries.

Defining objects

Figure 26 shows the definition for the reports and report group of the Sample component.

```
DEFINE GROUP SAMPLE
  VERSION 'IBM.110'
  DESC 'Sample Reports';

DEFINE REPORT SAMPLE01
  VERSION 'IBM.110'
  DESC 'Sample Report 1'
  QUERY DRLQSA01
  FORM DRLFSA01
  CHART DRLGSURF
  ATTRIBUTES SAMPLE
  GROUPS SAMPLE;

DEFINE REPORT SAMPLE02
  VERSION 'IBM.110'
  DESC 'Sample Report 2'
  QUERY DRLQSA02
  FORM DRLFSA02
  ATTRIBUTES SAMPLE
  GROUPS SAMPLE;

DEFINE REPORT SAMPLE03
  VERSION 'IBM.110'
  DESC 'Sample Report 3'
  QUERY DRLQSA03
  FORM DRLFSA03
  CHART DRLGHORB
  ATTRIBUTES SAMPLE
  GROUPS SAMPLE;
```

Figure 26. Tivoli Decision Support for z/OS definition member DRLOSAMP, defining reports and report groups

The Tivoli Decision Support for z/OS report definition program uses the definitions in DRLOxxxx members to locate these types of members for each report:

Member type	Description
DRLQxxxx	Report queries in DRL181.SDRLRxxx
DRLFxxxx	Report forms in DRL181.SDRLRxxx
DRLGxxxx	Report charts in DRL181.SDRLFxxx

where xxx refers to your national-language code (for example, ENU, JPN).

Tivoli Decision Support for z/OS imports members in these data sets to QMF to provide queries and forms for predefined reports. If QMF is not used, the contents of the report queries and forms are stored in Tivoli Decision Support for z/OS system tables.

DRLQxxxx members in the DRL181.SDRLRENU library are queries for predefined reports. Figure 27 on page 79 shows the query for Sample Report 1.

```
SELECT TIME, DEPARTMENT_NAME, SUM(CPU_SECONDS)
FROM &PREFIX.SAMPLE_H
WHERE SYSTEM_ID = &SYSTEM_ID.
GROUP BY TIME, DEPARTMENT_NAME
```

Figure 27. Tivoli Decision Support for z/OS definition member DRLQSA01, report query

DRLFxxxx members in the DRL181.SDRLRENU library are QMF forms for predefined English reports. For example, DRLFSA01 is the QMF form for Sample Report 1.

DRLGxxxx members in the DRL181.SDRLFENU library are GDDM/ICU formats for predefined English reports. For example, DRLGSURF is the GDDM/ICU format used for Sample Report 1.

Chapter 5. Naming convention for Tivoli Decision Support for z/OS definition members

This chapter describes the naming convention for members of the DRL181.SDRLDEFS and DRL181.SDRLRENU libraries. For information on defining these libraries, see Chapter 4, “Overview of Tivoli Decision Support for z/OS objects,” on page 71.

Naming convention for members of DRL181.SDRLDEFS

The naming convention for the Tivoli Decision Support for z/OS definitions library is:

Naming convention	Description
DRLBxxxx	Log data manager collect statements
DRLIxxxx	Component definitions (SQL statements that are executed when the system tables are created or updated)
DRLLxxxx	Log definitions
DRLRxxxx	Record definitions Chapter 19, “Record definitions supplied with Tivoli Decision Support for z/OS,” on page 323 describes record definitions.
DRLSxxxx	Tablespace definitions
DRLTxxxx	Table and update definitions
DRLUxxxx	Update definitions (when separate from tables)
DRLVxxxx	View definitions
DRLWxxxx	Migration definitions

Naming convention for members of DRL181.SDRLRENU

The naming convention for the Tivoli Decision Support for z/OS (predefined) reports definitions library, SDRLRENU (or SDRLRJPN), is:

Naming convention	Description
DRLOxxxx	Report definitions
DRLQxxxx	SQL queries
DRLFxxxx	QMF forms

Naming convention for members of DRL181.SDRLRENU

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Chapter 6. Migrating components from earlier releases of Tivoli Decision Support for z/OS

To migrate a component, ensure that you use option 2 Components from the Administration dialog to check the VERSION variable when you install.

Do not:

- uninstall a component that you want to migrate. If you do, your tables are dropped and collected data is lost.
- use option 5 Process Tivoli Decision Support for z/OS statements from the Other pull-down menu from the Administration dialog to apply IBM-supplied maintenance to Tivoli Decision Support for z/OS objects.

To migrate a component:

1. Identify and save objects you have modified.

If an object that has been modified by you is not modified by the latest release, modification, or maintenance level of Tivoli Decision Support for z/OS, you do not need to take any action. This is because Tivoli Decision Support for z/OS objects that are unchanged from the previous Tivoli Decision Support for z/OS level are not overwritten. Your own changes therefore remain active.

However, when an object has been modified by IBM and included in the latest Tivoli Decision Support for z/OS level, any changes that you might have made to this object may be overwritten during reinstallation of the component.

Therefore, to save the objects that you have modified and wish to retain for use with the new Tivoli Decision Support for z/OS component level, you must perform the following actions:

- a. Check the lists contained in Appendix C through Appendix E to see if a particular object has been modified by the new Tivoli Decision Support for z/OS release or modification level.
 - b. If you find that the object *has* been modified, perform the save actions defined in “Migrating modified objects” on page 87. If you find that the object *has not* been modified, no save action is required by you.
2. Perform the migration actions described in Chapter 7, or Chapter 8 depending on the product release that you are migrating.
 3. Continue the installation as described in “Installing a component” on page 182.

Note: If the component that you are migrating has been divided into subcomponents, ensure that you select all the subcomponents for reinstalling.

4. Reintroduce existing changes to component objects.

When you have finished installing the components you must reintroduce already existing changes to component objects.

To ensure that the changes you have saved (in the previous step) can now be introduced into the IBM-modified objects, perform the merge actions defined in “Migrating modified objects” on page 87.

The following chapters contain information about the batch jobs to run before or after migrating to Tivoli Decision Support for z/OS 1.8.1:

- Chapter 7, “Migrating from 1.7.”

Migrating components from earlier releases

- Chapter 8, “Migrating from 1.7.1.”
- Chapter 9, “Migrating from 1.8.0.”

For information about the component objects that have been modified by IBM for migration to another product version or release, refer to:

- Appendix C, “Component objects modified by migration from 1.7.”
- Appendix D, “Component objects modified by migration from 1.7.1.”
- Appendix E, “Component objects modified by migration from 1.8.0.”

For large tables, migration jobs can cause significant logging. With the latest releases of DB2, the LOAD utility can be used to migrate data, and logging can be reduced by specifying the LOG(NO) option. For more information, refer to the Administration Guide for your version of DB2.

Migrating from the IMS feature to the IMS Shared Queue feature

From Tivoli Decision Support for z/OS Version 1.8.1, the non-Shared Queue IMS feature is no longer supported. Customers who are still using the non-Shared Queue IMS feature will need to migrate to the IMS Shared Queue feature before they migrate to Tivoli Decision Support for z/OS Version 1.8.1.

The IMS Shared Queue feature defines a set of tables, fields, and reports with a different structure from the non-shared Queue IMS feature. If you migrate from the non-Shared Queue IMS feature to the IMS Shared Queue, you must use the new set of tables and reports.

If you want to continue to use your old reports, you must modify them to match the new table and field organization *before* you start using the IMS Shared Queue feature. This is required because there is not an exact mapping between the non-Shared Queue and Shared Queue fields.

For details about how the DB2 tables and their fields have been re-organized, see the section “Mapping between non-SQ and SQ DB2 tables” in the *IMS Performance Feature Guide and Reference* (in the version of the manual that you’re migrating from).

Migrating modified objects

Object type	Save actions	Merge actions
Record definition (see Note 1 on page 88)	<ol style="list-style-type: none"> 1. Select 3, Logs from the Tivoli Decision Support for z/OS Administration window, and press Enter. 2. Select the log in which the record definition is defined, and press Enter. 3. Select the record definition you want to save. 4. Select 6, Save Definition from the Record pull-down, and press Enter. 5. Type the name of the data set where you want to save the record definition, and press Enter. 	<p>To reintroduce your changes into the newly migrated component:</p> <ol style="list-style-type: none"> 1. Take a copy of the record definition provided in the new Tivoli Decision Support for z/OS release or modification level. The new record definition is in the DRL181.SDRLDEFS data set. To find the appropriate member name, see the sections of this chapter that refer to the component objects modified for migrating from your current product release to Tivoli Decision Support for z/OS 1.8.1. 2. Copy your previously saved changes into the copy of the OBJECT definition. Update the variable VERSION to some value other than IBM.<i>mmm</i>. OR create alter statements for your modifications using the update processor. This can be run from the user modified members panel that is displayed during each component installation process. 3. Run the saved update definitions OR run the ALTER statements produced by the update processor. You can do this in batch or from Tivoli Decision Support for z/OS administration Dialog. See Note 2.
Update definition (see Note 1 on page 88)	<ol style="list-style-type: none"> 1. Select 4, Tables from the Tivoli Decision Support for z/OS Administration window, and press Enter. 2. Select the table for the associated update definition that you want to save, and press F5 (Updates). 3. Select the update definition you want to save, and press F10 (Save def). 4. Type the name of the data set where you want to save the update definition. Press Enter. 	<p>To reintroduce your changes into the newly migrated component:</p> <ol style="list-style-type: none"> 1. Take a copy of the update definition provided in the new Tivoli Decision Support for z/OS release or modification level. The new update definition is in the data set DRL181.SDRLDEFS. 2. Copy your previously saved changes into the copy of the OBJECT definition. Update the variable VERSION to some value other than IBM.<i>mmm</i>. OR create alter statements for your modifications using the update processor. This can be run from the user modified members panel that is displayed during each component installation process. 3. Run the saved update definitions OR run the ALTER statements produced by the update processor. You can do this in batch or from Tivoli Decision Support for z/OS administration Dialog. See Note2.
Table definition (see Note 3)	Save actions are usually not required.	
Index definition (see Note 1 on page 88)	<p>Save actions are usually not required. However, if you want to reintroduce changes you have made:</p> <ol style="list-style-type: none"> 1. Select 4, Tables from the Tivoli Decision Support for z/OS Administration window, and press Enter. 2. Select the table for the associated index definition. 3. Select 7, Save definition from the Table pull-down, and press Enter. 4. Type the name of the data set where you want to save the table and index definition. Press Enter. 	<p>To reintroduce your changes into the newly migrated component:</p> <ol style="list-style-type: none"> 1. Take a copy of the index definition provided in the new Tivoli Decision Support for z/OS release or modification level. The new index definition is in the data set DRL181.SDRLDEFS. 2. Copy your previously saved changes into the copy of the index definition. 3. Run the saved index definition. You can do this in batch or from the Tivoli Decision Support for z/OS administration dialog. See Note 2 on page 88. <p>Note: You can also use the Tivoli Decision Support for z/OS administration dialog to first delete, and then define a new index.</p>

Migrating modified objects

Object type	Save actions	Merge actions
View definition (see Note 1)	<ol style="list-style-type: none"> 1. Select 4, Tables from the Tivoli Decision Support for z/OS Administration window, and press Enter. 2. Select the view that you want to save. 3. Select 7, Save Definition from the Table pull-down, and press Enter. 4. Type the name of the data set where you want to save the view definition, and press Enter. 	<p>To reintroduce your changes into the newly migrated component:</p> <ol style="list-style-type: none"> 1. Take a copy of the view definition provided in the new Tivoli Decision Support for z/OS release or modification level. The new view definition is in the data set DRL181.SDRLDEFS. 2. Copy your previously saved changes into the copy of the view definition. 3. Run the saved view definition. You can do this in batch or from the Tivoli Decision Support for z/OS administration dialog. See Note 2.
Report definition	<p>If you have performed your own modifications to predefined Tivoli Decision Support for z/OS reports and <i>have retained the original report ID</i>, you can perform one of these options. Option 1 (recommended) - Change report ID of modified version For each report that you want to save, perform the following:</p> <ol style="list-style-type: none"> 1. Select the report from the Tivoli Decision Support for z/OS Reports window. 2. Select 1, New from the Report pull-down, and press Enter. 3. Press F3 (Exit) to leave the QMF query. 4. Type your own unique names for the report ID, query name, and form name in the Report Definition window. Press Enter. The report is saved with the new name. <p>Note: If you are not using QMF, type only the report ID in the Report Definition window.</p>	<p>No merge action is required. Your saved reports are still available after you have reinstalled the new Tivoli Decision Support for z/OS component.</p>
<p>Notes:</p> <ol style="list-style-type: none"> 1. This object is dropped before it is redefined. You <i>must</i> save your own modified version before reinstalling the Tivoli Decision Support for z/OS component. 2. To run the definition statements from the Tivoli Decision Support for z/OS administration dialog, select 5, Process Tivoli Decision Support for z/OS statements from the Other pull-down. Fill in the fields as shown in Figure 28 on page 89. Press F5 (Execute) to process the definition statements. 3. Any existing version of this object is <i>not</i> overwritten by a new IBM definition. However, tables might be altered, that is, one or more columns might be added. 4. If the local definitions contain references to objects that were moved to a different member, ensure that you update the object-member association. 		

Process Tivoli Decision Support for z/OS Statements window

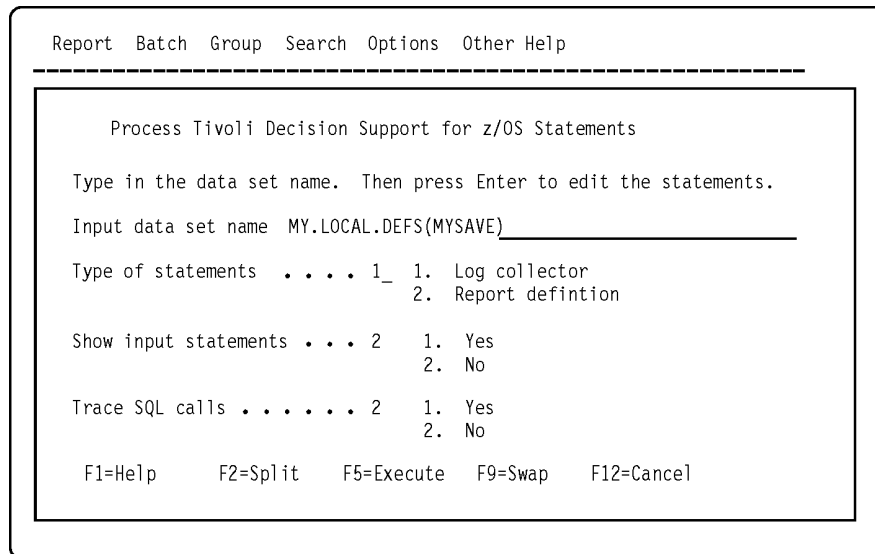


Figure 28. Process Tivoli Decision Support for z/OS Statements window

Chapter 7. Migrating from 1.7

Migrating from an earlier version of TDS involves two steps:

- Upgrading the software, programs and definitions, by installing the new release. To do this, see “Considerations when migrating from an earlier release or modification level” on page 14.
- Migrating the database by applying changes to the database tables and copying the data to the new format.

Migrating the database

Changing the database tables can involve adding, deleting, or changing columns. Adding columns, or changing datatypes of existing columns, is achieved by ALTER statements coded in the table definition member. The table definition member is executed during Component Installation (see Chapter 12, “Working with components,” on page 181). If the table exists, the ALTER statements are processed and the DEFINE TABLE statement fails. If the table does not exist, the ALTER statements fail and the DEFINE TABLE statement succeeds.

The ALTER, TABLE DEFINE sequence of statements used in the table definition members causes SQL errors. You can ignore these when encountered during the execution of migration jobs or installation of components.

- 190 This change is applicable for DB2 Version 8 and above.
- 601 The object being created already exists.
- 612 This change has already been applied.
- 562 The grantee already has privilege from the grantor.

Ignore any other errors relating to the creation of objects that already exist.

The table definition members are processed during component installation, so each of the currently installed components, whether they have specific migration jobs or not, must be installed again at the correct point in the migration process.

Changes to the table structure sometimes require the current data content to be copied from the old format database to the new. Some of the migration jobs are described as a “Table migration job” and they perform the following functions:

- Save current data in COPY_ tables
- Drop original tables
- Redefine the tables using the new TDS definitions
- Insert current data from COPY_ tables into the redefined tables
- Drop COPY_ tables

The implementation of TDS Version 1.8.1 consists of four steps:

1. Install new release software. For information about this, see Chapter 2, “Installing Tivoli Decision Support for z/OS,” on page 13.
2. Rebind the DB2 plan used by Tivoli Decision Support for z/OS. For information about this, see “Initializing DB2 database when migrating to Tivoli Decision Support for z/OS 1.8.1” on page 24.

Migrating the database

3. Update system tables. For information about this, see “Step 7: Creating or updating system tables” on page 35.
4. Reinstall all installed components. For information about this, see Chapter 12, “Working with components,” on page 181.

In addition to these four steps, some components also have migration jobs which must be run. Component migration jobs are divided into three categories. The categories correspond to each of the three implementation steps listed above. The jobs are allocated to categories depending on how the change is applied. All the migration jobs in a category are processed after the successful completion of the corresponding implementation step and before processing the next implementation step.

Category 1

Run this job after installing the new software and before updating the system tables.

Category 2

Run this job after system table update but before the component is installed. The changes are applied to the system tables. Modifications are implemented in TDS by component installation.

Category 3

Run this job after the component installation. Modifications are implemented directly in TDS, typically database changes.

When “reinstalling all installed components”, install again every component and subcomponent currently installed, not just those that have specific migration jobs. The installation process executes the table definition members which might apply simple changes to the database that do not require a table migration job. It is recommended that you run component installations in batch mode and retain output until satisfied the component is operating correctly.

Use Table 6 as a checklist to manage the migration. Mark as “unrequired” any unused components and their jobs. Review the detailed sections for your installed components and mark as “unrequired” any jobs for PTFs that have been installed. Ensure you have an adequate system back up. Proceed with the installation by working down the columns marking completed jobs when processed.

Table 6. Migration table

Components with migration jobs	Category 1 Jobs	Category 2 Jobs	Category 3 Jobs
Any component	DRLJAGGR	None	None
Accounting for z/OS	DRLJSYS1 DRLJRACC	None	None
CICS any component	DRLJCIFI	DRLJCIF1	None
CICS Statistics Partitioned	None	None	DRLJC76P
CICS Statistics	None	None	DRLJC076

Table 6. Migration table (continued)

Components with migration jobs	Category 1 Jobs	Category 2 Jobs	Category 3 Jobs
DB2	None	DRLJDB3 DRLJDB09	DRLJDB08
DFSMS	None	DRLJDF01	None
IMS any component	None	DRLJCSQS	None
IMS V7.1 CSQ Collect	Support removed. See note below.	Support removed. See note below.	DRLJMIC2 Support removed. See note below.
IMS V8.1 CSQ Collect	None	None	DRLJIMSS DRLJIMST
IMS V9.1 CSQ Collect	None	DRLJMIO0	DRLJIMSS DRLJIMST
IMS V10.1 CSQ Collect	None	DRLJMIO0	DRLJIMSS DRLJIMST
Linux on zSeries	DRLJZLNI	None	DRLJZLND DRLJZLNT
MVS (see z/OS)			
RACF	None	DRLJCRAC	None
z/OS Interval Job/Step Accounting Component	None	DRLJDNOR DRLJACST	None
z/OS (MVS) System		DRLJDNOR DRLJMVA1 DRLJMVL2 DRLJMVOM DRLJMVPA DRLJMVPD	None
z/OS Performance Management (MVSPM)	None	DRLJDNOR DRLJMPL2 DRLJMVPA DRLJMVPC DRLJMVPF DRLJMVPD	None

Note: In TDS Version 1.8.1, support for IMS version 7 (and non-CSQ) is removed. Therefore customers using IMS Version 7 or non-CSQ components should now use IMS 8.1 (or above) CSQ components. If customers are still using IMS Version 7, we recommend that they migrate to a higher level of IMS prior to installing TDS Version 1.8.1.

TDS prerequisites DB2 Version 8 New Function Mode (as of TDS Version 1.8.1). For migration from DB2 Version 7 to DB2 Version 8, see “Considerations when migrating from an earlier release or modification level” on page 14. If customers are still using DB2 Version 7, we recommend that they migrate to a higher level of DB2 prior to installing TDS Version 1.8.1.

Migrating the database

The following sections describe the migration jobs required for the affected components. The jobs are categorised to run after one of the steps in the installation process (see Table 6 on page 92).

Read the sections for your installed components and plan the sequence of the installations so the required component migration jobs can be run after the correct step.

Component renaming job

To update the System Performance feature components with the new names for TDS V1.8.1, run the following jobs:

Job	Description	Category
DRLJSYS1	System table update	Run this job after software installed but before system table update.
DRLJRACC	System table update	Run this job after software installed but before system table update.

This updates the system tables with the following new component names:

Old name of the component	New name of the component
DFRMM	DFSMS/RMM
Domino	Lotus Domino for z/OS
Internet Connection Secure Server	HTTP Server for z/OS (ICSS)
MQSeries	WebSphere MQ for z/OS (MQSeries)
MVS	z/OS System (MVS)
MVS Interval Job/Step Accounting	z/OS Interval Job/Step Accounting
MVS Performance Management	z/OS Performance Management (MVSPM)
TCP/IP for MVS	TCP/IP for z/OS
Tivoli Service Desk	Tivoli Information Management for z/OS (INFOMAN)
Tivoli Storage Manager (ADSM)	Tivoli Storage Manager for z/OS (ADSM)
TWS for z/OS (OPC)	Tivoli Workload Scheduler for z/OS (OPC)
Accounting for z/OS component	Resource Accounting for z/OS component

Creating AGGR_VALUE Lookup table

To add the AGGR_VALUE Lookup table to the system tables, run the following job:

Job	Description	Category
DRLJAGGR	Create Lookup table AGGR_VALUE	Run this job after software installed but before system table update.

CICS any component

If you have not previously installed the PTFs for APAR PK39321, run the following job:

Job	Description	Category
DRLJCIFI	New key column	Run this job after software installed but before system table update.

If you have not previously installed the PTFs for APAR PK52877, run the following job:

Job	Description	Category
DRLJCIF1	CICS_FIELD table migration	Run this job after system table update but before the component is installed.

CICS Statistics Partitioned component

If you have not previously installed the PTFs for APAR PK39321, run the following job:

Job	Description	Category
DRLJC76P	Table migration job	Run this job after the component installation.

To improve performance DRLJC76P uses DB2 UNLOAD / LOAD to reformat tables. The TDS tables are expected to be in the latest format. This should be confirmed before running this job. Produce LOAD cards for each table by running the UNLOAD step. The LOAD cards are written to SYSOUT03 and SYSOUT04. Compare these LOAD cards to the LOAD cards used to load data in the job. If the unload LOAD cards are different, modify the LOAD cards in the job to resolve the differences before proceeding to the load step.

DRLJC76P swaps the data in four columns. The following differences in offsets are expected.

LOAD cards created by UNLOAD for table CICS_S_INTERCOM_TP

```
, "CONT_SESSION_WIN" POSITION( 00362:00369)
FLOAT(53) NULLIF(00361)=X'FF'
, "CONT_SESSION_LOSER" POSITION( 00371:00378)
FLOAT(53) NULLIF(00370)=X'FF'
, "CURR_WINN_CONTENT" POSITION( 00380:00387)
FLOAT(53) NULLIF(00379)=X'FF'
, "CURR_LOSER_CONTENT" POSITION( 00389:00396)
FLOAT(53) NULLIF(00388)=X'FF'
```

LOAD cards in DRLJC76P that swap the data

```
- "CONT_SESSION_WIN" POSITION(380:387)
FLOAT(53) NULLIF(379)=X'FF',
- "CONT_SESSION_LOSER" POSITION(389:396)
FLOAT(53) NULLIF(388)=X'FF',
```

CICS Statistics Partitioned component

```
- "CURR_WINN_CONTENT" POSITION(371:378)
FLOAT(53) NULLIF(370)=X'FF',
- "CURR_LOSER_CONTENT" POSITION(362:369)
FLOAT(53) NULLIF(361)=X'FF',
```

LOAD cards created by UNLOAD for table CICS_S_INTERCOM_DP

```
, "CONT_SESSION_WIN" POSITION( 00321:00328)
FLOAT(53) NULLIF(00320)=X'FF'
, "CONT_SESSION_LOSER" POSITION( 00330:00337)
FLOAT(53) NULLIF(00329)=X'FF'
, "CURR_WINN_CONTENT" POSITION( 00339:00346)
FLOAT(53) NULLIF(00338)=X'FF'
, "CURR_LOSER_CONTENT" POSITION( 00348:00355)
FLOAT(53) NULLIF(00347)=X'FF'
```

LOAD cards in DRLJC76P that swap the data

```
- "CONT_SESSION_WIN" POSITION(339:346)
FLOAT(53) NULLIF(338)=X'FF',
- "CONT_SESSION_LOSER" POSITION(348:355)
FLOAT(53) NULLIF(347)=X'FF',
- "CURR_WINN_CONTENT" POSITION(330:337)
FLOAT(53) NULLIF(329)=X'FF',
- "CURR_LOSER_CONTENT" POSITION(321:328)
FLOAT(53) NULLIF(320)=X'FF',
```

The effect of this is

The data unloaded from CONT_SESSION_WIN is loaded into
CURR_LOSER_CONTENT

The data unloaded from CONT_SESSION_LOSER is loaded into
CURR_WINN_CONTENT

The data unloaded from CURR_WINN_CONTENT is loaded into
CONT_SESSION_WIN

The data unloaded from CURR_LOSER_CONTENT is loaded into
CONT_SESSION_LOSER

Each time DRLJC76P is run it will swap the data in these columns. It is important to run it once only.

CICS Statistics component

If you have not previously installed the PTFs for APAR PK39321, run the following job:

Job	Description	Category
DRLJC076	Table migration job	Run this job after the component installation.

To improve performance DRLJC076 uses DB2 UNLOAD / LOAD to reformat tables. The TDS tables are expected to be in the latest format. This should be confirmed before running this job. Produce LOAD cards for each table by running the UNLOAD step. The LOAD cards are written to SYSOUT03 and SYSOUT04. Compare these LOAD cards to the LOAD cards used to load data in the job. If the

unload LOAD cards are different, modify the LOAD cards in the job to resolve the differences before proceeding to the load step.

DRLJC076 swaps the data in four columns. The following differences in offsets are expected.

LOAD cards created by UNLOAD for table CICS_S_INTERCOM_T

```
, "CONT_SESSION_WIN" POSITION( 00362:00369)
FLOAT(53) NULLIF(00361)=X'FF'
, "CONT_SESSION_LOSER" POSITION( 00371:00378)
FLOAT(53) NULLIF(00370)=X'FF'
, "CURR_WINN_CONTENT" POSITION( 00380:00387)
FLOAT(53) NULLIF(00379)=X'FF'
, "CURR_LOSER_CONTENT" POSITION( 00389:00396)
FLOAT(53) NULLIF(00388)=X'FF'
```

LOAD cards in DRLJC076 that swap the data

```
- "CONT_SESSION_WIN" POSITION(380:387)
FLOAT(53) NULLIF(379)=X'FF',
- "CONT_SESSION_LOSER" POSITION(389:396)
FLOAT(53) NULLIF(388)=X'FF',
- "CURR_WINN_CONTENT" POSITION(371:378)
FLOAT(53) NULLIF(370)=X'FF',
- "CURR_LOSER_CONTENT" POSITION(362:369)
FLOAT(53) NULLIF(361)=X'FF',
```

LOAD cards created by UNLOAD for table CICS_S_INTERCOM_D

```
, "CONT_SESSION_WIN" POSITION( 00321:00328)
FLOAT(53) NULLIF(00320)=X'FF'
, "CONT_SESSION_LOSER" POSITION( 00330:00337)
FLOAT(53) NULLIF(00329)=X'FF'
, "CURR_WINN_CONTENT" POSITION( 00339:00346)
FLOAT(53) NULLIF(00338)=X'FF'
, "CURR_LOSER_CONTENT" POSITION( 00348:00355)
FLOAT(53) NULLIF(00347)=X'FF'
```

LOAD cards in DRLJC076 that swap the data

```
- "CONT_SESSION_WIN" POSITION(339:346)
FLOAT(53) NULLIF(338)=X'FF',
- "CONT_SESSION_LOSER" POSITION(348:355)
FLOAT(53) NULLIF(347)=X'FF',
- "CURR_WINN_CONTENT" POSITION(330:337)
FLOAT(53) NULLIF(329)=X'FF',
- "CURR_LOSER_CONTENT" POSITION(321:328)
FLOAT(53) NULLIF(320)=X'FF',
```

The effect of this is

The data unloaded from CONT_SESSION_WIN is loaded into
CURR_LOSER_CONTENT

The data unloaded from CONT_SESSION_LOSER is loaded into
CURR_WINN_CONTENT

CICS Statistics component

The data unloaded from CURR_WINN_CONTENT is loaded into
CONT_SESSION_WIN

The data unloaded from CURR_LOSER_CONTENT is loaded into
CONT_SESSION_LOSER

Each time DRLJC076 is run it will swap the data in these columns. It is important to run it once only.

DB2 component migration jobs

If you have not previously installed the PTFs for APAR PK52681, run the following job:

Job	Description	Category
DRLJDB3	Table migration	Run this job after system table update but before the component is installed.

If you have not previously installed the PTFs for APAR PK85596, run the following job:

Job	Description	Category
DRLJDB09	Table migration	Run this job after system table update but before the component is installed.

If you have not previously installed the PTFs for APAR PK61570, run the following job:

Job	Description	Category
DRLJDB08	Table migration	Run this job after the component installation.

DFSMS migration job

If you have not previously installed the PTFs for APAR PK17069, run the following job:

Job	Description	Category
DRLJDF01	Alter primary key	Run this job after system table update but before the component is installed.

IMS any component migration jobs

In TDS Version 1.8.1 support for IMS version 7 (and non-CSQ) is removed. Therefore customers using IMS Version 7 or non-CSQ components should now use IMS 8.1 (or above) CSQ components. If customers are still using IMS Version 7, we recommend that they migrate to a higher level of IMS prior to installing TDS Version 1.8.1.

To migrate to TDS Version 1.8.1, run the following job:

Job	Description	Category
DRLJCSQS	System table update job	Run this job after system table update but before the component is installed.

IMS V7.1 CSQ component migration jobs

In TDS Version 1.8.1 support for IMS version 7 (and non-CSQ) is removed. Therefore customers using IMS Version 7 or non-CSQ components should now use IMS 8.1 (or above) CSQ components. If customers are still using IMS Version 7, we recommend that they migrate to a higher level of IMS prior to installing TDS Version 1.8.1.

The following job should only be run if you are no longer collecting data for IMS V7. It removes IMS V7 objects from the system tables, and it is an optional step.

Job	Description	Category
DRLJMIC2	System table update	Run this job after the the component is installed.

IMS V8.1 CSQ component migration jobs

Job	Description	Category
DRLJIMSS	Table migration job	Run this job after the component installation.

This job backs up tablespaces DRLSIT13 and DRLSIT14. It alters index and primary key on table IMS_SYSTEM_TRAN_X and alters and reorganizes tablespaces DRLSIT13 and DRLSIT14.

Job	Description	Category
DRLJIMST	Table migration job	Run this job after the component installation.

This job backs up tablespaces DRLSIT10, DRLSIT11, and DRLSIT12. It alters index and primary key on table IMS_TRAN_X and alters and reorganizes tablespaces DRLSIT10, DRLSIT11, and DRLSIT12.

IMS V9.1 CSQ component migration jobs

Step 1.

If you have not previously installed the PTFs for APAR PK07815, run the following job:

Job	Description	Category
DRLJMIO0	Table migration	Run this job after system table update but before the component is installed.

Step 2.

IMS V9.1 CSQ component migration jobs

Job	Description	Category
DRLJIMSS	Table migration job	Run this job after the component installation.

This job backs up tablespaces DRLSIT13 and DRLSIT14. It alters index and primary key on table IMS_SYSTEM_TRAN_X and alters and reorganizes tablespaces DRLSIT13 and DRLSIT14.

Step 3.

Job	Description	Category
DRLJIMST	Table migration job	Run this job after the component installation.

This job backs up tablespaces DRLSIT10, DRLSIT11, and DRLSIT12. It alters index and primary key on table IMS_TRAN_X and alters and reorganizes tablespaces DRLSIT10, DRLSIT11, and DRLSIT12.

IMS V10.1 CSQ component migration jobs

If you have installed the IMS V10.1 CSQ component with PK40918, follow these migration steps:

Step 1.

If you have not previously installed the PTFs for APAR PK17069, run the following job:

Job	Description	Category
DRLJMIO0	Table migration	Run this job after system table update but before the component is installed.

Step 2.

Job	Description	Category
DRLJIMSS	Table migration	Run this job after the component installation.

This job backs up tablespaces DRLSIT13 and DRLSIT14. It alters index and primary key on table IMS_SYSTEM_TRAN_X and alters and reorganizes tablespaces DRLSIT13 and DRLSIT14.

Step 3.

Job	Description	Category
DRLJIMST	Table migration	Run this job after the component installation.

This job backs up tablespaces DRLSIT10, DRLSIT11, and DRLSIT12. It alters index and primary key on table IMS_TRAN_X and alters and reorganizes tablespaces DRLSIT10, DRLSIT11, and DRLSIT12.

Linux on zSeries component migration jobs

A new component, Linux on zSeries, replaces Linux for z/OS by running the following job:

Job	Description	Category
DRLJZLNI	Delete Linux for z/OS from system tables	Run this job after installing the new software but before the system table update dialogue.

After updating system tables and installing the new component – Linux on zSeries.

Job	Description	Category
DRLJZLND	Drop old component objects, apart from tables	Run this job after the component installation.
DRLJZLNT	Table migration job	Run this job after the component installation.

MVS components

MVS components are migrated to z/OS components. See the following sections:

- For MVS, see “z/OS System (MVS) component migration job.”
- For MVS Performance Management, see “z/OS Performance Management (MVSPM) component migration job” on page 103.

RACF component migration job

Job	Description	Category
DRLJCRAC	System table update job	Run this job after system table update but before the component is installed.

This job updates the DRLCOMP_OBJECTS system table in order to:

- Specify a PART_NAME for the objects that belong to any RACF subcomponents.
- Modify the MEMBER_NAME, where necessary.

z/OS Interval Job/Step Accounting Component migration jobs

If you have not previously installed the PTFs for APAR PK54304, run the following job:

Job	Description	Category
DRLJACST	Table migration	Run this job after the component installation.

z/OS System (MVS) component migration job

Step 1.

z/OS System (MVS) component migration job

If you have previously installed the PTFs for APAR PQ97830, before you reinstall any z/OS components (MVS, MVSAC, MVSPM), run the following job:

Job	Description	Category
DRLJDNOR	System table update	Run this job after system table update but before the component is installed.

When you run this job, any data stored in the MVS_NORMAL_DATA table is lost, so if you need it, copy the contents of the MVS_NORMAL_DATA table into your own tables.

Note: Running the DRLJDNOR job is valid for the z/OS Performance Management (MVSPM), z/OS System (MVS), and z/OS Interval Job/Step Accounting components (MVSAC). Run it once only.

The DRLJDNOR job does the following:

- Drops the MVS_NORMAL_DATA table.
- Deletes the OBJECT_NAME='MVS_NORMAL_DATA' from the DRLCOMP_OBJECTS system tables.

Step 2.

If you have not previously installed the PTFs for APAR PK25783, run the following job:

Job	Description	Category
DRLJMVA1	Table migration job	Run this job after system table update but before the component is installed.

Step 3.

If you have not previously installed the PTFs for APAR PK30845, run the following job:

Job	Description	Category
DRLJMVOM	Table migration job	Run this job after the system table update but before the component is installed.

To improve performance DRLJMVOM uses DB2 UNLOAD / LOAD to reformat tables. The TDS tables are expected to be in the latest format. This should be confirmed before running this job. Produce LOAD cards for each table by running the UNLOAD step. The LOAD cards are written to SYSOUTAO and SYSOUTDO. Compare these LOAD cards to the LOAD cards used to load data in the job. If the unload LOAD cards are different, modify the LOAD cards in the job to resolve the differences before proceeding to the load step.

DRLJMVOM swaps the data in two columns. The following differences in offsets are expected.

LOAD cards created by UNLOAD for tables MVS_OMVSADDR_T and MVS_OMVSADIS_T

z/OS System (MVS) component migration job

```
, "SYSCALL_NUMBER" POSITION(00092:00099)
FLOAT(53) NULLIF(00091)=X'FF'
, "CPU_TIME      " POSITION(00101:00108)
FLOAT(53) NULLIF(00100)=X'FF'
```

LOAD cards in DRLJMVOM that swap the data

```
, "SYSCALL_NUMBER" POSITION(00101:00108)
FLOAT(53) NULLIF(00091)=X'FF'
, "CPU_TIME      " POSITION(00092:00099)
FLOAT(53) NULLIF(00100)=X'FF'
```

The effect of this is the data unloaded from SYSCALL_NUMBER is loaded into CPU_TIME and the data from CPU_TIME is loaded into SYSCALL_NUMBER.

Each time DRLJMVOM is run it will swap the data in these columns. It is important to run it once only.

Step 4.

If you have not previously installed the PTFs for APAR PK11283, run the following job:

Job	Description	Category
DRLJMVL2	Table migration job	Run this job after system table update but before the component is installed.

DRLJMVL2 changes the size of key field PROCESSOR_TYPE of the MVS_LPAR_D/M tables to CHAR(4) and replaces "ICF" values with "ICF+" (ICF pool).

Step 5.

Job	Description	Category
DRLJMVPA	Table Table MVS_MIPS_T migration.	Run this job after system table update but before the component is installed.
DRLJMVPG	Table Table MVS_LPAR_D, _M migration.	Run this job after system table update but before the component is installed.

z/OS Performance Management (MVSPM) component migration job

Step 1.

For DRLJDNOR, see "z/OS System (MVS) component migration job" on page 101.

Step 2.

If you have not previously installed the PTFs for APAR PK11283, run the following jobs:

Job	Description	Category
DRLJMPL2	Table migration job	Run this job after system table update but before the component is installed.

z/OS Performance Management (MVSPM) component migration job

DRLJMPL2 changes the size of key field PROCESSOR_TYPE of the MVSPM_LPAR_H table to CHAR(4) and replaces "ICF" values with "ICF+".

Step 3.

Run the following jobs:

Job	Description	Category
DRLJMVPA DRLJMVPC	Table migration	Run this job after system table update but before the component is installed.

Step 4.

If you have not previously installed the PTFs for APAR PK28686, run the following job:

Job	Description	Category
DRLJMVPF	Table migration	Run this job after system table update but before the component is installed.

Step 5.

If you have not previously installed the PTFs for APAR PK55987, run the following job:

Job	Description	Category
DRLJMVPD	Table migration	Run this job after system table update but before the component is installed.

Component objects renamed

The following table shows the component objects that were renamed by the migration process and the member to which they belong.

Table 7. Component objects renamed

Tivoli Decision Support for z/OS component	Object type	Old object name	New object name	Member
Linux on zSeries	Table	LINUX_CPU_TIME_D LINUX_FILESYS_H LINUX_FILESYS_D LINUX_FILESYS_M LINUX_MEM_H LINUX_MEM_D LINUX_MEM_M LINUX_PROCESS_H LINUX_PROCESS_D LINUX_PROCESS_M LINUX_USERS_H LINUX_USERS_D LINUX_USERS_M	ZLINUX_CPU_TIME_D ZLINUX_FILESYS_H ZLINUX_FILESYS_D ZLINUX_FILESYS_M ZLINUX_MEM_H ZLINUX_MEM_D ZLINUX_MEM_M ZLINUX_PROCESS_H ZLINUX_PROCESS_D ZLINUX_PROCESS_M ZLINUX_USERS_H ZLINUX_USERS_D ZLINUX_USERS_M	DRLTLNXC DRLTLNXF DRLTLNXF DRLTLNXF DRLTLNXM DRLTLNXM DRLTLNXM DRLTLNXP DRLTLNXP DRLTLNXP DRLTLNXU DRLTLNXU DRLTLNXU
	Update	LINUX_CPU_TIME_D LINUX_FILESYS_H LINUX_FILESYS_D LINUX_FILESYS_M LINUX_MEM_H LINUX_MEM_D LINUX_MEM_M LINUX_MEM1_H LINUX_PROCESS_H LINUX_PROCESS_D LINUX_PROCESS_M LINUX_USERS_H LINUX_USERS_D LINUX_USERS_M	ZLINUX_CPU_TIME_D ZLINUX_FILESYS_H ZLINUX_FILESYS_D ZLINUX_FILESYS_M ZLINUX_MEM_H ZLINUX_MEM_D ZLINUX_MEM_M ZLINUX_MEM1_H ZLINUX_PROCESS_H ZLINUX_PROCESS_D ZLINUX_PROCESS_M ZLINUX_USERS_H ZLINUX_USERS_D ZLINUX_USERS_M	DRLTLNXC DRLTLNXF DRLTLNXF DRLTLNXF DRLTLNXM DRLTLNXM DRLTLNXM DRLTLNXM DRLTLNXP DRLTLNXP DRLTLNXP DRLTLNXU DRLTLNXU DRLTLNXU

Re-installing zLinux component

There are updated record definitions for the zLinux component included in this release.

If you have previously installed the zLinux component, it is necessary to re-install it, in order to pick up the record definition updates.

These steps are to be followed:

1. Log in to TDS as an administrative user.
2. Select option (2), "Administration".
3. Select option (2), "Components".
4. Select the "Linux on zSeries" component (with "/"), then press F6 to install.
5. Select option (1) "Online", then wait for install to complete.
6. Exit all the way back to the "Administration" menu.
7. Select option (3) "Logs".
8. Select "Linux" (with "/") and press Enter.
9. Select all the "ZLINUX_REC_..." entries (with "/") and press Enter.
10. Ensure that the record length is at offset 0 (not 1) for each of the record definitions.

Re-installing zLinux component

Chapter 8. Migrating from 1.7.1

Migrating from an earlier version of Tivoli Decision Support for z/OS involves two steps:

- Upgrading the software, programs and definitions, by installing the new release. To do this, see “Considerations when migrating from an earlier release or modification level” on page 14.
- Migrating the database by applying changes to the database tables and copying the data to the new format.

Migrating the database

Changing the database tables can involve adding, deleting, or changing columns. Adding columns, or changing datatypes of existing columns, is achieved by ALTER statements coded in the table definition member. The table definition member is executed during Component Installation (see Chapter 12, “Working with components,” on page 181). If the table exists, the ALTER statements are processed and the DEFINE TABLE statement fails. If the table does not exist, the ALTER statements fail and the DEFINE TABLE statement succeeds.

The ALTER, TABLE DEFINE sequence of statements used in the table definition members causes SQL errors. You can ignore these when encountered during the execution of migration jobs or installation of components.

- 190 This change is applicable for DB2 Version 8 and above.
- 601 The object being created already exists.
- 612 This change has already been applied.
- 562 The grantee already has privilege from the grantor.

Ignore any other errors relating to the creation of objects that already exist.

The table definition members are processed during component installation, so each of the currently installed components, whether they have specific migration jobs or not, must be installed again at the correct point in the migration process.

Changes to the table structure sometimes require the current data content to be copied from the old format database to the new. Some of the migration jobs are described as a “Table migration job” and they perform the following functions:

- Save current data in COPY_ tables
- Drop original tables
- Redefine the tables using the new TDS definitions
- Insert current data from COPY_ tables into the redefined tables
- Drop COPY_ tables

The implementation of TDS Version 1.8.1 consists of four steps:

1. Install new release software. For information about this, see Chapter 2, “Installing Tivoli Decision Support for z/OS,” on page 13.

Migrating the database

2. Rebind the DB2 plan used by Tivoli Decision Support for z/OS. For information about this, see “Initializing DB2 database when migrating to Tivoli Decision Support for z/OS 1.8.1” on page 24.
3. Update system tables. For information about this, see “Step 7: Creating or updating system tables” on page 35.
4. Reinstall all installed components. For information about this, see Chapter 12, “Working with components,” on page 181.

In addition to these four steps, some components also have migration jobs which must be run. Component migration jobs are divided into three categories. The categories correspond to each of the three implementation steps listed above. The jobs are allocated to categories depending on how the change is applied. All the migration jobs in a category are processed after the successful completion of the corresponding implementation step and before processing the next implementation step.

Category 1

Run this job after installing the new software and before updating the system tables.

Category 2

Run this job after system table update but before the component is installed. The changes are applied to the system tables. Modifications are implemented in TDS by component installation.

Category 3

Run this job after the component installation. Modifications are implemented directly in TDS, typically database changes.

When “reinstalling all installed components”, install again every component and subcomponent currently installed, not just those that have specific migration jobs. The installation process executes the table definition members which might apply simple changes to the database that do not require a table migration job. It is recommended that you run component installations in batch mode and retain output until satisfied the component is operating correctly.

Use Table 8 as a checklist to manage the migration. Mark as “unrequired” any unused components and their jobs. Review the detailed sections for your installed components and mark as “unrequired” any jobs for PTFs that have been installed. Ensure you have an adequate system back up. Proceed with the installation by working down the columns marking completed jobs when processed.

Table 8. Migration table

Components with migration jobs	Category 1 Jobs	Category 2 Jobs	Category 3 Jobs
Any component	DRLJAGGR	None	None
Accounting for z/OS	DRLJRACC	None	None
CICS any component	DRLJCIFI	DRLJCIF1	None
CICS Statistics Partitioned	None	None	DRLJC76P

Table 8. Migration table (continued)

Components with migration jobs	Category 1 Jobs	Category 2 Jobs	Category 3 Jobs
CICS Statistics	None	None	DRLJC076
DB2	None	DRLJDB3 DRLJDB09	DRLJDB08
DFSMS	None	DRLJDF01	None
IMS any component	None	DRLJCSQS	None
IMS V7.1 CSQ Collect	Support removed. See note below.	Support removed. See note below.	DRLJMIC2 Support removed. See note below.
IMS V8.1 CSQ Collect	None	None	DRLJIMSS DRLJIMST
IMS V9.1 CSQ Collect	None	DRLJMIO0	DRLJIMSS DRLJIMST
IMS V10.1 CSQ Collect	None	DRLJMIO0	DRLJIMSS DRLJIMST
RACF	None	DRLJCRAC	None
z/OS Interval Job/Step Accounting Component	None	DRLJACST	None
z/OS (MVS) System		DRLJMVA1 DRLJMVOM DRLJMVPA DRLJMVPD	None
z/OS Performance Management (MVSPM)	None	DRLJMVPA DRLJMVPC DRLJMVPF DRLJMVPD	None

Note: In TDS Version 1.8.1 support for IMS version 7 (and non-CSQ) is removed. Therefore customers using IMS Version 7 or non-CSQ components should now use IMS 8.1 (or above) CSQ components. If customers are still using IMS Version 7, we recommend that they migrate to a higher level of IMS prior to installing TDS Version 1.8.1.

TDS prerequisites DB2 Version 8 New Function Mode (as of TDS Version 1.8.1). For migration from DB2 Version 7 to DB2 Version 8, see “Considerations when migrating from an earlier release or modification level” on page 14. If customers are still using DB2 Version 7, we recommend that they migrate to a higher level of DB2 prior to installing TDS Version 1.8.1.

The following sections describe the migration jobs required for the affected components. The jobs are categorised to run after one of the steps in the installation process (see Table 8 on page 108).

Migrating the database

Read the sections for your installed components and plan the sequence of the installations so the required component migration jobs can be run after the correct step.

Creating AGGR_VALUE Lookup table

To add the AGGR_VALUE Lookup table to the system tables, run the following job:

Job	Description	Category
DRLJAGGR	Create Lookup table AGGR_VALUE	Run this job after software installed but before system table update.

Accounting for z/OS component (now called "Resource Accounting for z/OS")

Renames Accounting for z/OS component to Resource Accounting for z/OS component.

Job	Description	Category
DRLJRACC	System table update	Run this job after software installed but before system update table.

CICS any component

If you have not previously installed the PTFs for APAR PK39321, run the following job:

Job	Description	Category
DRLJCIFI	New key column	Run this job after software installed but before system update table.

If you have not previously installed the PTFs for APAR PK52877, run the following job:

Job	Description	Category
DRLJCIF1	CICS_FIELD table migration.	Run this job after system table update but before the component is installed.

CICS Statistics Partitioned component

If you have not previously installed the PTFs for APAR PK39321, run the following job:

Job	Description	Category
DRLJC76P	Table migration job	Run this job after the component installation.

To improve performance DRLJC76P uses DB2 UNLOAD / LOAD to reformat tables. The TDS tables are expected to be in the latest format. This should be confirmed before running this job. Produce LOAD cards for each table by running

the UNLOAD step. The LOAD cards are written to SYSOUT03 and SYSOUT04. Compare these LOAD cards to the LOAD cards used to load data in the job. If the unload LOAD cards are different, modify the LOAD cards in the job to resolve the differences before proceeding to the load step.

DRLJC76P swaps the data in four columns. The following differences in offsets are expected.

LOAD cards created by UNLOAD for table CICS_S_INTERCOM_TP

```
, "CONT_SESSION_WIN" POSITION( 00362:00369)
FLOAT(53) NULLIF(00361)=X'FF'
, "CONT_SESSION_LOSER" POSITION( 00371:00378)
FLOAT(53) NULLIF(00370)=X'FF'
, "CURR_WINN_CONTENT" POSITION( 00380:00387)
FLOAT(53) NULLIF(00379)=X'FF'
, "CURR_LOSER_CONTENT" POSITION( 00389:00396)
FLOAT(53) NULLIF(00388)=X'FF'
```

LOAD cards in DRLJC76P that swap the data

```
- "CONT_SESSION_WIN" POSITION(380:387)
FLOAT(53) NULLIF(379)=X'FF',
- "CONT_SESSION_LOSER" POSITION(389:396)
FLOAT(53) NULLIF(388)=X'FF',
- "CURR_WINN_CONTENT" POSITION(371:378)
FLOAT(53) NULLIF(370)=X'FF',
- "CURR_LOSER_CONTENT" POSITION(362:369)
FLOAT(53) NULLIF(361)=X'FF',
```

LOAD cards created by UNLOAD for table CICS_S_INTERCOM_DP

```
, "CONT_SESSION_WIN" POSITION( 00321:00328)
FLOAT(53) NULLIF(00320)=X'FF'
, "CONT_SESSION_LOSER" POSITION( 00330:00337)
FLOAT(53) NULLIF(00329)=X'FF'
, "CURR_WINN_CONTENT" POSITION( 00339:00346)
FLOAT(53) NULLIF(00338)=X'FF'
, "CURR_LOSER_CONTENT" POSITION( 00348:00355)
FLOAT(53) NULLIF(00347)=X'FF'
```

LOAD cards in DRLJC76P that swap the data

```
- "CONT_SESSION_WIN" POSITION(339:346)
FLOAT(53) NULLIF(338)=X'FF',
- "CONT_SESSION_LOSER" POSITION(348:355)
FLOAT(53) NULLIF(347)=X'FF',
- "CURR_WINN_CONTENT" POSITION(330:337)
FLOAT(53) NULLIF(329)=X'FF',
- "CURR_LOSER_CONTENT" POSITION(321:328)
FLOAT(53) NULLIF(320)=X'FF',
```

The effect of this is

The data unloaded from CONT_SESSION_WIN is loaded into
CURR_LOSER_CONTENT

Creating AGGR_VALUE Lookup table

The data unloaded from CONT_SESSION_LOSER is loaded into CURR_WINN_CONTENT

The data unloaded from CURR_WINN_CONTENT is loaded into CONT_SESSION_WIN

The data unloaded from CURR_LOSER_CONTENT is loaded into CONT_SESSION_LOSER

Each time DRLJC76P is run it will swap the data in these columns. It is important to run it once only.

CICS Statistics component

If you have not previously installed the PTFs for APAR PK39321, run the following job:

Job	Description	Category
DRLJC076	Table migration job	Run this job after the component installation.

To improve performance DRLJC076 uses DB2 UNLOAD / LOAD to reformat tables. The TDS tables are expected to be in the latest format. This should be confirmed before running this job. Produce LOAD cards for each table by running the UNLOAD step. The LOAD cards are written to SYSOUT03 and SYSOUT04. Compare these LOAD cards to the LOAD cards used to load data in the job. If the unload LOAD cards are different, modify the LOAD cards in the job to resolve the differences before proceeding to the load step.

DRLJC076 swaps the data in four columns. The following differences in offsets are expected.

LOAD cards created by UNLOAD for table CICS_S_INTERCOM_T

```
, "CONT_SESSION_WIN" POSITION( 00362:00369)
FLOAT(53) NULLIF(00361)=X'FF'
, "CONT_SESSION_LOSER" POSITION( 00371:00378)
FLOAT(53) NULLIF(00370)=X'FF'
, "CURR_WINN_CONTENT" POSITION( 00380:00387)
FLOAT(53) NULLIF(00379)=X'FF'
, "CURR_LOSER_CONTENT" POSITION( 00389:00396)
FLOAT(53) NULLIF(00388)=X'FF'
```

LOAD cards in DRLJC076 that swap the data

```
- "CONT_SESSION_WIN" POSITION(380:387)
FLOAT(53) NULLIF(379)=X'FF',
- "CONT_SESSION_LOSER" POSITION(389:396)
FLOAT(53) NULLIF(388)=X'FF',
- "CURR_WINN_CONTENT" POSITION(371:378)
FLOAT(53) NULLIF(370)=X'FF',
- "CURR_LOSER_CONTENT" POSITION(362:369)
FLOAT(53) NULLIF(361)=X'FF',
```

LOAD cards created by UNLOAD for table CICS_S_INTERCOM_D

Creating AGGR_VALUE Lookup table

```
, "CONT_SESSION_WIN" POSITION( 00321:00328)
FLOAT(53) NULLIF(00320)=X'FF'
, "CONT_SESSION_LOSER" POSITION( 00330:00337)
FLOAT(53) NULLIF(00329)=X'FF'
, "CURR_WINN_CONTENT" POSITION( 00339:00346)
FLOAT(53) NULLIF(00338)=X'FF'
, "CURR_LOSER_CONTENT" POSITION( 00348:00355)
FLOAT(53) NULLIF(00347)=X'FF'
```

LOAD cards in DRLJC076 that swap the data

```
- "CONT_SESSION_WIN" POSITION(339:346)
FLOAT(53) NULLIF(338)=X'FF',
- "CONT_SESSION_LOSER" POSITION(348:355)
FLOAT(53) NULLIF(347)=X'FF',
- "CURR_WINN_CONTENT" POSITION(330:337)
FLOAT(53) NULLIF(329)=X'FF',
- "CURR_LOSER_CONTENT" POSITION(321:328)
FLOAT(53) NULLIF(320)=X'FF',
```

The effect of this is

The data unloaded from CONT_SESSION_WIN is loaded into
CURR_LOSER_CONTENT
The data unloaded from CONT_SESSION_LOSER is loaded into
CURR_WINN_CONTENT
The data unloaded from CURR_WINN_CONTENT is loaded into
CONT_SESSION_WIN
The data unloaded from CURR_LOSER_CONTENT is loaded into
CONT_SESSION_LOSER

Each time DRLJC076 is run it will swap the data in these columns. It is important to run it once only.

DB2 component migration jobs

If you have not previously installed the PTFs for APAR PK52681, run the following job:

Job	Description	Category
DRLJDB3	Table migration job	Run this job after system table update but before the component is installed.

If you have not previously installed the PTFs for APAR PK85596, run the following job:

Job	Description	Category
DRLJDB09	Table migration	Run this job after system table update but before the component is installed.

If you have not previously installed the PTFs for APAR PK61570, run the following job:

DB2 component migration jobs

Job	Description	Category
DRLJDB08	Table migration job	Run this job after the component installation.

DFSMS migration job

If you have not previously installed the PTFs for APAR PK17069, run the following job:

Job	Description	Category
DRLJDF01	Alter primary key	Run this job after system table update but before the component is installed.

IMS any component migration jobs

In TDS Version 1.8.1, support for IMS version 7 (and non-CSQ) is removed. Therefore customers using IMS Version 7 or non-CSQ components should now use IMS 8.1 (or above) CSQ components. If customers are still using IMS Version 7, we recommend that they migrate to a higher level of IMS prior to installing TDS Version 1.8.1.

If you have not previously installed the PTFs for APAR PK21043, run the following job:

Job	Description	Category
DRLJCSQS	System table update job	Run this job after system table update but before the component is installed.

IMS V7.1 CSQ component migration jobs

In TDS Version 1.8.1 support for IMS version 7 (and non-CSQ) is removed. Therefore customers using IMS Version 7 or non-CSQ components should now use IMS 8.1 (or above) CSQ components. If customers are still using IMS Version 7, we recommend that they migrate to a higher level of IMS prior to installing TDS Version 1.8.1.

The following job should only be run if you are no longer collecting data for IMS V7. It removes IMS V7 objects from the system tables, and it is an optional step.

Job	Description	Category
DRLJMIC2	System table update	Run this job after the the component is installed.

IMS V8.1 CSQ component migration jobs

Job	Description	Category
DRLJIMSS	Table migration job	Run this job after the component installation.

IMS V8.1 CSQ component migration jobs

This job backs up tablespaces DRLSIT13 and DRLSIT14. It alters index and primary key on table IMS_SYSTEM_TRAN_X and alters and reorganizes tablespaces DRLSIT13 and DRLSIT14.

Job	Description	Category
DRLJIMST	Table migration job	Run this job after the component installation.

This job backs up tablespaces DRLSIT10, DRLSIT11, and DRLSIT12. It alters index and primary key on table IMS_TRAN_X and alters and reorganizes tablespaces DRLSIT10, DRLSIT11, and DRLSIT12.

IMS V9.1 CSQ component migration jobs

Step 1.

If you have not previously installed the PTFs for APAR PK17069, run the following job:

Job	Description	Category
DRLJMIO0	Table migration job	Run this job after system table update but before the component is installed.

Step 2.

Job	Description	Category
DRLJIMSS	Table migration job	Run this job after the component installation.

This job backs up tablespaces DRLSIT13 and DRLSIT14. It alters index and primary key on table IMS_SYSTEM_TRAN_X and alters and reorganizes tablespaces DRLSIT13 and DRLSIT14.

Step 3.

Job	Description	Category
DRLJIMST	Table migration job	Run this job after the component installation.

This job backs up tablespaces DRLSIT10, DRLSIT11, and DRLSIT12. It alters index and primary key on table IMS_TRAN_X and alters and reorganizes tablespaces DRLSIT10, DRLSIT11, and DRLSIT12.

IMS V10.1 CSQ component migration jobs

If you have installed the IMS V10.1 CSQ component with PK40918, follow these migration steps:

Step 1.

If you have not previously installed the PTFs for APAR PK17069, run the following job:

IMS V10.1 CSQ component migration jobs

Job	Description	Category
DRLJMIO0	Table migration job	Run this job after system table update but before the component is installed.

Step 2.

Job	Description	Category
DRLJIMSS	Table migration job	Run this job after the component installation.

This job backs up tablespaces DRLSIT13 and DRLSIT14. It alters index and primary key on table IMS_SYSTEM_TRAN_X and alters and reorganizes tablespaces DRLSIT13 and DRLSIT14.

Step 3.

Job	Description	Category
DRLJIMST	Table migration job	Run this job after the component installation.

This job backs up tablespaces DRLSIT10, DRLSIT11, and DRLSIT12. It alters index and primary key on table IMS_TRAN_X and alters and reorganizes tablespaces DRLSIT10, DRLSIT11, and DRLSIT12.

RACF component migration job

Job	Description	Category
DRLJCRAC	System table update job	Run this job after system table update but before the component is installed.

This job updates the DRLCOMP_OBJECTS system table in order to:

- Specify a PART_NAME for the objects that belong to any RACF subcomponents.
- Modify the MEMBER_NAME, where necessary.

z/OS Interval Job/Step Accounting Component

If you have not previously installed the PTFs for APAR PK54304, run the following job:

Job	Description	Category
DRLJACST	Table migration job	Run this job after the component installation.

z/OS System (MVS) component migration job

Step 1.

z/OS System (MVS) component migration job

If you have not previously installed the PTFs for APAR PK25783, run the following job:

Job	Description	Category
DRLJMVA1	Table migration job	Run this job after system table update but before the component is installed.

Step 2.

If you have not previously installed the PTFs for APAR PK30845, run the following job:

Job	Description	Category
DRLJMVOM	Table migration job	Run this job after the system table update but before the component is installed.

To improve performance DRLJMVOM uses DB2 UNLOAD / LOAD to reformat tables. The TDS tables are expected to be in the latest format. This should be confirmed before running this job. Produce LOAD cards for each table by running the UNLOAD step. The LOAD cards are written to SYSOUTAO and SYSOUTDO. Compare these LOAD cards to the LOAD cards used to load data in the job. If the unload LOAD cards are different, modify the LOAD cards in the job to resolve the differences before proceeding to the load step.

DRLJMVOM swaps the data in two columns. The following differences in offsets are expected.

LOAD cards created by UNLOAD for tables MVS_OMVSADDR_T and MVS_OMVSADIS_T

```
, "SYSCALL_NUMBER" POSITION(00092:00099)
FLOAT(53) NULLIF(00091)=X'FF'
, "CPU_TIME" POSITION(00101:00108)
FLOAT(53) NULLIF(00100)=X'FF'
```

LOAD cards in DRLJMVOM that swap the data

```
, "SYSCALL_NUMBER" POSITION(00101:00108)
FLOAT(53) NULLIF(00091)=X'FF'
, "CPU_TIME" POSITION(00092:00099)
FLOAT(53) NULLIF(00100)=X'FF'
```

The effect of this is the data unloaded from SYSCALL_NUMBER is loaded into CPU_TIME and the data from CPU_TIME is loaded into SYSCALL_NUMBER.

Each time DRLJMVOM is run it will swap the data in these columns. It is important to run it once only.

Step 3.

Job	Description	Category
DRLJMVPA	Table MVS_MIPS_T migration.	Run this job after system table update but before the component is installed.

z/OS System (MVS) component migration job

Job	Description	Category
DRLJMVPG	Tables MVS_LPAR_D, _M migration.	Run this job after system table update but before the component is installed.

z/OS Performance Management (MVSPM) component migration job

Step 1.

Run the following jobs:

Job	Description	Category
DRLJMVPA DRLJMVPC	Table migration.	Run these jobs after system table update but before the component is installed.

Step 2.

If you have not previously installed the PTFs for APAR PK28686, run the following job:

Job	Description	Category
DRLJMVPF	Table migration.	Run these jobs after system table update but before the component is installed.

Step 3.

If you have not previously installed the PTFs for APAR PK55987, run the following job:

Job	Description	Category
DRLJMVPD	Table migration.	Run these jobs after system table update but before the component is installed.

Re-installing zLinux component

There are updated record definitions for the zLinux component included in this release.

If you have previously installed the zLinux component, it is necessary to re-install it, in order to pick up the record definition updates.

These steps are to be followed:

1. Log in to TDS as an administrative user.
2. Select option (2), "Administration".
3. Select option (2), "Components".
4. Select the "Linux on zSeries" component (with "/"), then press F6 to install.
5. Select option (1) "Online", then wait for install to complete.
6. Exit all the way back to the "Administration" menu.
7. Select option (3) "Logs".
8. Select "Linux" (with "/") and press Enter.

z/OS Performance Management (MVSPM) component migration job

9. Select all the "ZINUX_REC_..." entries (with "/") and press Enter.
10. Ensure that the record length is at offset 0 (not 1) for each of the record definitions.

z/OS Performance Management (MVSPM) component migration job

Chapter 9. Migrating from 1.8.0

Migrating from an earlier version of Tivoli Decision Support for z/OS involves two steps:

- Upgrading the software, programs and definitions, by installing the new release. To do this, see “Considerations when migrating from an earlier release or modification level” on page 14.
- Migrating the database by applying changes to the database tables and copying the data to the new format.

Migrating the database

Changing the database tables can involve adding, deleting, or changing columns. Adding columns, or changing datatypes of existing columns, is achieved by ALTER statements coded in the table definition member. The table definition member is executed during Component Installation (see Chapter 12, “Working with components,” on page 181). If the table exists, the ALTER statements are processed and the DEFINE TABLE statement fails. If the table does not exist, the ALTER statements fail and the DEFINE TABLE statement succeeds.

The ALTER, TABLE DEFINE sequence of statements used in the table definition members causes SQL errors. You can ignore these when encountered during the execution of migration jobs or installation of components.

- 190 This change is applicable for DB2 Version 8 and above.
- 601 The object being created already exists.
- 612 This change has already been applied.
- 562 The grantee already has privilege from the grantor.

Ignore any other errors relating to the creation of objects that already exist.

The table definition members are processed during component installation, so each of the currently installed components, whether they have specific migration jobs or not, must be installed again at the correct point in the migration process.

Changes to the table structure sometimes require the current data content to be copied from the old format database to the new. Some of the migration jobs are described as a “Table migration job” and they perform the following functions:

- Save current data in COPY_ tables
- Drop original tables
- Redefine the tables using the new TDS definitions
- Insert current data from COPY_ tables into the redefined tables
- Drop COPY_ tables

The implementation of TDS Version 1.8.1 consists of four steps:

1. Install new release software. For information about this, see Chapter 2, “Installing Tivoli Decision Support for z/OS,” on page 13.

Migrating the database

2. Rebind the DB2 plan used by Tivoli Decision Support for z/OS. For information about this, see “Initializing DB2 database when migrating to Tivoli Decision Support for z/OS 1.8.1” on page 24.
3. Update system tables. For information about this, see “Step 7: Creating or updating system tables” on page 35.
4. Reinstall all installed components. For information about this, see Chapter 12, “Working with components,” on page 181.

In addition to these four steps, some components also have migration jobs which must be run. Component migration jobs are divided into three categories. The categories correspond to each of the three implementation steps listed above. The jobs are allocated to categories depending on how the change is applied. All the migration jobs in a category are processed after the successful completion of the corresponding implementation step and before processing the next implementation step.

Category 1

Run this job after installing the new software and before updating the system tables.

Category 2

Run this job after system table update but before the component is installed. The changes are applied to the system tables. Modifications are implemented in TDS by component installation.

Category 3

Run this job after the component installation. Modifications are implemented directly in TDS, typically database changes.

When “reinstalling all installed components”, install again every component and subcomponent currently installed, not just those that have specific migration jobs. The installation process executes the table definition members which might apply simple changes to the database that do not require a table migration job. It is recommended that you run component installations in batch mode and retain output until satisfied the component is operating correctly.

Use Table 9 as a checklist to manage the migration. Mark as “unrequired” any unused components and their jobs. Review the detailed sections for your installed components and mark as “unrequired” any jobs for PTFs that have been installed. Ensure you have an adequate system back up. Proceed with the installation by working down the columns marking completed jobs when processed.

Table 9. Migration table

Components with migration jobs	Category 1 Jobs	Category 2 Jobs	Category 3 Jobs
Any component	DRLJAGGR	None	None
CICS any component		DRLJCIF1	None
IMS V7.1 CSQ components	Support removed. See note below.	Support removed. See note below.	DRLJMIC2 Support removed. See note below.
DB2		DRLJDB3 DRLJD09	DRLJDB08

Table 9. Migration table (continued)

Components with migration jobs	Category 1 Jobs	Category 2 Jobs	Category 3 Jobs
z/OS Interval Job/Step Accounting			DRLJACST
Websphere Message Broker	None	None	DRLJWMB
z/OS (MVS) System	None	None	DRLJMVPR

Note: In TDS Version 1.8.1, support for IMS version 7 (and non-CSQ) is removed. Therefore customers using IMS Version 7 or non-CSQ components should now use IMS 8.1 (or above) CSQ components. If customers are still using IMS Version 7, we recommend that they migrate to a higher level of IMS prior to installing TDS Version 1.8.1.

TDS prerequisites DB2 Version 8 New Function Mode (as of TDS Version 1.8.1). For migration from DB2 Version 7 to DB2 Version 8, see “Considerations when migrating from an earlier release or modification level” on page 14. If customers are still using DB2 Version 7, we recommend that they migrate to a higher level of DB2 prior to installing TDS Version 1.8.1.

Creating AGGR_VALUE Lookup table

To add the AGGR_VALUE Lookup table to the system tables, run the following job:

Job	Description	Category
DRLJAGGR	Create Lookup table AGGR_VALUE	Run this job after software installed but before system table update.

DB2 component

If you have not previously installed the PTFs for APAR PK52681, run the following job:

Job	Description	Category
DRLJDB3	Table migration job	Run this job after system table update but before the component is installed.

If you have not previously installed the PTFs for APAR PK85596, run the following job:

Job	Description	Category
DRLJDB09	Table migration job	Run this job after system table update but before the component is installed.

Creating AGGR_VALUE Lookup table

If you have not previously installed the PTFs for APAR PK61570, run the following job:

Job	Description	Category
DRLJDB08	Table migration job	Run this job after system table update but before the component is installed.

z/OS Interval Job/Step Accounting

If you have not previously installed the PTFs for APAR PK54304, run the following job:

Job	Description	Category
DRLJACST	Table migration job	Run this job after system table update but before the component is installed.

CICS any component

If you have not previously installed the PTFs for APAR PK52877, run the following job:

Job	Description	Category
DRLJCIFI	CICS_FIELD table migration.	Run this job after system table update but before the component is installed.

IMS V7.1 CSQ component migration jobs

In TDS Version 1.8.1 support for IMS version 7 is removed. Therefore customers using IMS Version 7 components should now use IMS 8.1 (or above) CSQ components. If customers are still using IMS Version 7, we recommend that they migrate to a higher level of IMS prior to installing TDS Version 1.8.1.

The following job should only be run if you are no longer collecting data for IMS V7. It removes IMS V7 objects from the system tables, and it is an optional step.

Job	Description	Category
DRLJMIC2	System table update.	Run this job after the component installation.

WebSphere Message Broker

If you have not previously installed the PTFs for APAR PK74898, run the following job:

Job	Description	Category
DRLJWMB	Weekly table migration.	Run this job after the component installation.

z/OS System (MVS) component

If you have not previously installed the PTFs for APAR PK74091, run the following job:

Job	Description	Category
DRLJMVPR	Table MVS_PROCESSOR_M migration.	Run this job after the component installation.

Re-installing zLinux component

There are updated record definitions for the zLinux component included in this release.

If you have previously installed the zLinux component, it is necessary to re-install it, in order to pick up the record definition updates.

These steps are to be followed:

1. Log in to TDS as an administrative user.
2. Select option (2), "Administration".
3. Select option (2), "Components".
4. Select the "Linux on zSeries" component (with "/"), then press F6 to install.
5. Select option (1) "Online", then wait for install to complete.
6. Exit all the way back to the "Administration" menu.
7. Select option (3) "Logs".
8. Select "Linux" (with "/") and press Enter.
9. Select all the "ZINUX_REC_..." entries (with "/") and press Enter.
10. Ensure that the record length is at offset 0 (not 1) for each of the record definitions.

Creating AGGR_VALUE Lookup table

Chapter 10. Migrating Usage and Accounting Collector

As of TDS for z/OS v 1.8, the CIMS Mainframe product is integrated into TDSz as the Usage and Accounting Collector feature. Additional support and enhancements will be included in TDS for z/OS and not CIMS Mainframe. All CIMS Mainframe implementations must migrate to TDS for z/OS.

Note: Spectrum Writer is not included with UAC. Former CIMS Lab customers have a perpetual license for Spectrum Writer and should retain the CIMS Lab data sets so that they can make use of it. For support of Spectrum Writer, contact Pacific Systems. Customers that require access to CIMS Mainframe 12.2.1 should contact IBM support.

Migrating Usage and Accounting Collector from TDS for z/OS v 1.8.0

As there have been no significant changes between TDS for z/OS 1.8.0 and TDS for z/OS 1.8.1, no data conversions are required for files.

Migrating from CIMS Mainframe to the Usage and Accounting Collector

The CIMS Mainframe product is integrated into TDS for z/OS 1.8.1 as the Usage and Accounting Collector feature. Additional support and enhancements will be included in TDS for z/OS and not CIMS Mainframe. All CIMS Mainframe implementations must migrate to TDS for z/OS.

Processing Considerations

CIMS Mainframe implemented new record types in 11.5. These 79x record types are the preferred record types. In TDS for z/OS, the 79x records are the only types supported. The first thing to research for the TDS for z/OS migration is the current record type created by CIMS Mainframe. If the CIMS Mainframe subsystem programs (CIMSACCT, CIMSCMF2, CIMSDB2, CIMSDISK, CIMSTAPE, CIMSUNIV, and CIMSUN02) are creating DDNAME CIMSACT2 and this is the data set that is passed on to other processing. Then the 79x records are created and you are in an excellent position to migrate to TDS for z/OS (continue to “JCL Considerations when using 79x records” on page 128).

Switching to 79x records

The CIMSBILL program is not supported in TDS for z/OS. It has been replaced with the DRLCMONY program (the TDS for z/OS version of CIMSMONY). Executing program CIMSBILL is another indicator that the 79x records are not being created. The conversion from CIMSBILL to CIMSMONY is documented in the CIMS Mainframe Data Collector and Chargeback System Installation and Upgrade Guide. The documentation will explain the options available and decisions that must be made to migrate to TDS for z/OS and use the DRLCMONY (CIMSMONY) program. TDS for z/OS will not produce the old 99x records. The default processing in TDS for z/OS is the creation of 79x records to the DDNAME CIMSACT2. Switching to the 79x records can be done with the migration to TDS for z/OS or it can be done while executing the CIMS Mainframe release. In either case, there are JCL changes that must be made and these are documented in the CIMS Mainframe Data Collector and Chargeback System Installation and Upgrade Guide.

JCL Considerations when using 79x records

The CIMS Mainframe programs were all renamed for TDS for z/OS. The program names start with DRLC instead of CIMS. For example, in CIMS Mainframe there is a CIMSEXTR program but in TDS for z/OS this is now called DRLCEXTR. The TDS for z/OS install links the new programs with an ALIAS of the CIMS Mainframe program name. Therefore, JCL that executes the CIMS Mainframe program CIMSEXTR will also work with TDS for z/OS because the DRLCEXTR has an alias of CIMSEXTR. TDS for z/OS has made very few changes to the control statements that are entered via the DDNAME CIMSCNTL. The CIMS Mainframe JCL that references CIMS.DATFILE should also work with TDS for z/OS. The TDS for z/OS DDNAMEs have not changed. CIMS Mainframe JCLs should work with the new TDS for z/OS Usage and Accounting Collector as long as the 79x records are were being produced in the CIMS Mainframe JCLs. Changes should be limited to STEPLIB changes to point to the TDS for z/OS load library. TDS for z/OS no longer performs password checking. The DDNAME CIMSPASS can be removed from the TDS for z/OS JCL, but the presence of passwords will not cause a problem.

Release Considerations

This table outlines the release requirements for migrating to TDS for z/OS 1.8:

Release	Migration to TDS for z/OS
12.2.1	Ready for migration to TDS for z/OS
12.2	Ready for migration to TDS for z/OS
12.1	Upgrade to 12.2.1
12.0	Upgrade to 12.2.1
11.6	Upgrade to 12.2.1
11.5	Upgrade to 12.2.1, use directions in 12.0 CIMS Mainframe Data Collector and Chargeback System Installation and Upgrade Guide
11.4	Upgrade to 12.2.1,use directions in 12.0 CIMS Mainframe Data Collector and Chargeback System Installation and Upgrade Guide

The above Release Considerations are general rules that take into account file conversions. The various files used by CIMS Mainframe must be converted to the 12.2/12.2.1 level before migrating to TDS for z/OS. The CIMS Mainframe Data Collector and Chargeback System Installation and Upgrade Guide contains the detailed instructions for upgrading the CIMS Mainframe product. Use the instructions in these manuals to complete the upgrade. The upgrade procedures for the early releases (11.5 and 11.4) are documented in the 12.0 CIMS Mainframe Data Collector and Chargeback System Installation and Upgrade Guide. This manual is available from the CIMS Mainframe Information Center web page: <http://publib.boulder.ibm.com/tividd/td/IBMCIMSMainframe12.2.1.html> All the procedures to convert the older CIMS Mainframe files are included in 12.2.1. The 12.0 manual should be consulted to see the steps required to convert the older releases to 12.0. Then the 12.2.1 manual can be used to complete the upgrade from 12.0 to 12.2.1.

New name conventions

The CIMS Mainframe parts are renamed in TDS for z/OS to use the TDSz naming conventions. As stated earlier, the load modules have a new name that starts with DRLC (example DRLCEXTR instead of CIMSEXTR). The CIMS.DATFILE is no longer distributed with TDS for z/OS. The sample JCLs are now found in

Migrating Usage and Accounting Collector

DRL181.SDRLCNTL. The number of JCL members was reduced by including most control statements as instream data instead of separate members.

All CIMS.DATAFILE members were renamed by changing or adding a 4 character prefix. The prefixes are mapped as :

Prefix	Description
DRLC	CLIST or REXX
DRLN	Sample JCL
DRLM	Control statements, record definitions, ...etc. DRLMR - Record descriptions
DRLK	Dictionary definition

Use this table as a cross-reference to map the CIMS Mainframe CIMS.DATAFILE member names to the new names in TDS for z/OS:

CIMS Mainframe	TDS for z/OS
AAAALIST	DRLMLIST
ALIAS	DRLMALS
ALIASACC	DRLMALSA
ATMONJCL	DRLNATMN
BUDGETIN	DRLMBGTI
BUDJCL1	DRLNBDGT
CALENDAR	DRLMCLDR
CALNDR13	DRLMCL13
CICSASML	DRLNUR01
CICSRC01	DRLMRC01
CICSRC02	DRLMRC02
CIMRCT54	DRLMRT54
CIMRECAD	DRLMRAD
CIMRECCA	DRLMRCA
CIMRECDC	DRLMRDC
CIMRECFA	DRLMRFA
CIMRECID	DRLMRID
CIMRECIF	DRLMRIF
CIMRECIS	DRLMRIS
CIMRECMN	DRLMRMN
CIMRECMO	DRLMRMO
CIMRECMQ	DRLMRMQ
CIMRECM2	DRLMRM2
CIMRECOR	DRLMROR
CIMRECRM	DRLMRRM
CIMRECRO	DRLMRRO
CIMRECSJ	DRLMRSJ
CIMRECSP	DRLMRSP

Migrating Usage and Accounting Collector

CIMS Mainframe	TDS for z/OS
CIMRECTL	DRLMRTL
CIMRECTM	DRLMRTM
CIMRECVT	DRLMRVT
CIMRECZA	DRLMRZA
CIMRECZB	DRLMRZB
CIMRECZC	DRLMRZC
CIMREC01	DRLMR01
CIMREC02	DRLMR02
CIMREC03	DRLMR03
CIMREC04	DRLMR04
CIMREC06	DRLMR06
CIMREC10	DRLMR10
CIMREC11	DRLMR11
CIMREC12	DRLMR12
CIMREC14	DRLMR14
CIMREC15	DRLMR15
CIMREC16	DRLMR16
CIMREC28	DRLMR28
CIMREC29	DRLMR29
CIMREC30	DRLMR30
CIMSADA1	DRLNADA
CIMSBETA	DRLNBETA
CIMSCICS	DRLNCICS
CIMSCLNT	DRLNCLNT
CIMSCMPL	DRLNCMPL
CIMSDB2	DRLNDB2
CIMSDB2L	DRLNDB2L
CIMSDCOL	DRLNDCOL
CIMSDISK	DRLNDISK
CIMSDTC	DRLNDTC
CIMSDTD	DRLNDTD
CIMSDTLD	DRLNDTLD
CIMSEOM	DRLNEOM
CIMSEXTR	DRLNEXTR
CIMSFALC	DRLNFALC
CIMSFTP	DRLNFTP
CIMSFTPG	DRLNFTPG
CIMSGDG	DRLNGDG
CIMSGDG1	DRLNGDG1
CIMSIMS	DRLNIMS
CIMSINFO	DRLNINFO

Migrating Usage and Accounting Collector

CIMS Mainframe	TDS for z/OS
CIMSINIT	DRLCINIT
CIMSJB2A	DRLNJB2A
CIMSJB2B	DRLNJB2B
CIMSJOB1	DRLNJOB1
CIMSJOB2	DRLNJOB2
CIMSJOB3	DRLNJOB3
CIMSLEVL	DRLNLEVL
CIMSMEMO	DRLNMEMO
CIMSMERG	DRLNMERG
CIMSMQSR	DRLNMQSR
CIMSMULT	DRLNMULT
CIMSM204	DRLNM204
CIMSORCL	DRLNORCL
CIMSPRAT	DRLNPRAT
CIMSRATE	DRLMRATE
CIMSRJE	DRLNRJE
CIMSRMM	DRLNRMM
CIMSROSC	DRLNROSC
CIMSRSCA	DRLNRSCA
CIMSRT	DRLNRT
CIMSRTL	DRLNRTL
CIMSRTPR	DRLNRTPR
CIMSRTRP	DRLNRTRP
CIMSRTSC	DRLNRTSC
CIMSRT01	DRLMRT01
CIMSRT02	DRLMRT02
CIMSSTC	DRLNSTC
CIMSSTD	DRLNSTD
CIMSTAPE	DRLNTAPE
CIMSTL54	DRLNTL54
CIMSTMS	DRLNTMS
CIMSUNIV	DRLNUNIV
CIMSUR01	DRLCUR01
CIMSUSER	DRLCUSER
CIMSWEB	DRLNWEB
CIMSWYLB	DRLNWYLB
CIMSZARA	DRLNZARA
CIMSZASJ	DRLNZASJ
CIMSZASP	DRLNZASP
CIMSZDCB	DRLNZDCB
CIMSZDCC	DRLNZDCC

Migrating Usage and Accounting Collector

CIMS Mainframe	TDS for z/OS
CLIENT	DRLMCLNT
CLNTJCL1	DRLNCLN1
CLNTJCL2	DRLNCLN2
CLNTJCL3	DRLNCLN3
CMFPTABD	DRLCTABD
CMF2INP1	DRLMINP1
DCTNBATU	DRLKBATU
DCTNBETA	DRLKBETA
DCTNBETU	DRLKBETU
DCTNBGDU	DRLKBGDU
DCTNCADS	DRLKCADS
DCTNCICS	DRLKCICS
DCTNCTLD	DRLKCTLD
DCTNCTLT	DRLKCTLT
DCTNDASD	DRLKDASD
DCTNDB2	DRLKDB2
DCTNDB2U	DRLKDB2U
DCTNDB2W	DRLKDB2W
DCTNEVTW	DRLKEVTW
DCTNFSMU	DRLKFSMU
DCTNHDR	DRLKHDR
DCTNIMS	DRLKIMS
DCTNINFO	DRLKINFO
DCTNINTU	DRLKINTU
DCTNMEMO	DRLKMEMO
DCTNMEMU	DRLKMEMU
DCTNMQSR	DRLKMQSR
DCTNM204	DRLKM204
DCTNORCA	DRLKORCA
DCTNORCL	DRLKORCL
DCTNORCU	DRLKORCU
DCTNORCV	DRLKORCV
DCTNORCW	DRLKORCW
DCTNPRTU	DRLKPRTU
DCTNPRTW	DRLKPRTW
DCTNRMM	DRLKRMM
DCTNR792	DRLKR792
DCTNR793	DRLKR793
DCTNR794	DRLKR794
DCTNR799	DRLKR799
DCTNR999	DRLKR999

Migrating Usage and Accounting Collector

CIMS Mainframe	TDS for z/OS
DCTNSPMU	DRLKSPMU
DCTNSPMW	DRLKSPMW
DCTNSTOD	DRLKSTOD
DCTNSTOO	DRLKSTOO
DCTNSTOU	DRLKSTOU
DCTNSTOW	DRLKSTOW
DCTNTAPE	DRLKTAPE
DCTNTLMS	DRLKTLMS
DCTNTMS	DRLKTMS
DCTNTSO	DRLKTSO
DCTNUNIV	DRLKUNIV
DCTNWEBS	DRLKWEBS
DCTNZARA	DRLKZARA
DCTNZASJ	DRLKZASJ
DCTNZASP	DRLKZASP
DCTNZDCB	DRLKZDCB
DCTNZDCC	DRLKZDCC
DCTNZIDB	DRLKZIDB
DCTNZIDC	DRLKZIDC
DCTNZIDL	DRLKZIDL
DCTNZIDO	DRLKZIDO
DCTNZZZZ	DRLKZZZZ
EDITJCL	DRLNEDIT
ETCICS	DRLMECIC
ETDASD	DRLMEDSD
ETDB2	DRLMEDB2
ETGLOBAL	DRLMEGLB
ETR791	DRLME791
ETR792	DRLME792
ETR793	DRLME793
ETR799	DRLME799
ETR999	DRLME999
ETTAPE	DRLMETPE
ETWEBS	DRLMEWEB
EXTERNAL	DRLMTRAN
FILELIST	DRLMFLST
FTP#READ	DRLMFTP#
FTPDATE	DRLCFTPD
FTPDATEG	DRLCFTPE
FTPID	DRLMFTPI
IDMSJCL1	DRLNIDM1

Migrating Usage and Accounting Collector

CIMS Mainframe	TDS for z/OS
IDMSJCL2	DRLNIDM2
IDMSJCL3	DRLNIDM3
MONYCTL3	DRLMMNY
NORMCPU	DRLMNCPU
SMFMERGE	DRLNSMFM
SMFREC04	DRLMRS04
SMFREC05	DRLMRS05
SMFREC06	DRLMRS06
SMFREC26	DRLMRS26
SMFREC30	DRLMRS30
SURCPU	DRLMSCPU

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Chapter 11. Setting up operating routines

This chapter describes how to develop operating routines for:

- “Collecting log data”
- “Administering the Tivoli Decision Support for z/OS database” on page 148
- “Administering reports” on page 167

The sample jobs in this chapter may not be identical to those shipped with Tivoli Decision Support for z/OS. Before using the jobs in this chapter, refer to the samples in the DRL181.SDRLCNTL library.

Collecting log data

One of your primary responsibilities is to establish routines to collect data. To do this, you can use either the Tivoli Decision Support for z/OS administration dialog or log collector language statements that you execute through either a job or the dialog. This section describes:

1. How to collect data from the SAMPLE log type. The Sample component contains a log definition, record definitions, and update definitions for collecting SAMPLE log data sets.
2. How to collect data in batch without using the dialog. See “Collecting data from a log into DB2 tables” on page 217 for information about using the dialog to collect data. You can also automate the collection of data using the log data manager option, described in Chapter 15, “Working with the log data manager option,” on page 271.

Collecting data through the administration dialog

To collect log data from a SAMPLE log data set:

1. From the Tivoli Decision Support for z/OS Administration window, select 3, Logs, and press Enter.
Tivoli Decision Support for z/OS displays the Logs window.
2. From the Logs window, select Sample and press F11.
Tivoli Decision Support for z/OS displays the Collect window.
3. Type DRL181.SDRLDEFS(DRLSAMPL) in the Data set field.
This is the name of the data set that contains log data.
4. Press F4 to start an online collect process.
After the data collection is complete, Tivoli Decision Support for z/OS displays statistics about the collect. (See “Sample collect messages” on page 143 for more information about the statistics.)
5. When the collect is complete, press F3.
Tivoli Decision Support for z/OS returns to the Logs window.
6. From the Logs window, press F3.
The product returns to the Tivoli Decision Support for z/OS Administration window.

Using log collector language to collect data

To collect log data using the SAMPLE log definition, create and submit the JCL (Figure 29).

```
//jobname JOB parameters
//LC      EXEC PGM=DRLPLC,PARM=('SYSPREFIX=DRLSYS SYSTEM=DSN')
//STEPLIB DD DISP=SHR,DSN=DRLxxx.SDRLLOAD
//DRLIN  DD *
          COLLECT SAMPLE;
//DRLLLOG DD DISP=SHR,DSN=DRLxxx.SDRLDEFS(DRLSAMPL)
//DRLOUT DD SYSOUT=*
//DRLDUMP DD SYSOUT=*
```

Figure 29. Invoking the log collector in batch to collect data

Tivoli Decision Support for z/OS uses the log collector program (DRLPLC) to collect the SAMPLE log type, using these ddnames:

DD statement name	Description
DRLIN	Contains the log collector language statements. It can contain fixed-length or varying-length records of any length, but the log collector reads a maximum of 72 bytes from each record.
DRLLLOG	Identifies the log data set. The data set attributes are determined by the program creating the log.
DRLOUT	Identifies where collect messages are routed. It can have fixed-length or varying-length records of any length, but the log collector assumes a length of at least 80 bytes for formatting. Lines that are longer than the specified record length are wrapped to the next line. DRLOUT is allocated as RECFM=F and LRECL=80 if no DCB attributes are specified.
DRLDUMP	Identifies where collect diagnostics are routed. It can have fixed-length or varying-length records of any length, but the log collector assumes a length of at least 80 bytes for formatting. Lines that are longer than the specified record length are wrapped to the next line. DRLDUMP is allocated as RECFM=F and LRECL=80 if no DCB attributes are specified.

The DRLJCOLL job

The DRLJCOLL job in the DRL181.SDRLCNTL library is a generic collect job, adaptable for most logs. Figure 30 on page 139 and Figure 31 on page 140 show DRLJCOLL, used to collect data from an SMF log data set.

Note: The log data sets that are used as input for the collect (DRLLLOG DD statement) are expected to be sorted in chronological order.


```

//DRLJCOLL JOB (ACCT#),'COLLECT'
//*****
//* Licensed Materials - Property of IBM *
//* 5698-B06 (C) Copyright IBM Corporation 1993, 2005 *
//* See Copyright Instructions. *
//*****
//* Name: DRLJCOLL *
// *
//* Status: Tivoli Decision Support for z/OS 1.7.1 *
// *
// * Function: *
// * Tivoli Decision Support for z/OS collect job. *
// *
// * Replace "COLLECT SMF" below with one of the following *
// * statements to collect other logs: *
// *
// * COLLECT DCOLLECT *
// * WHERE DCUDATE > DATE(LOOKUP_LAST_DCOLLECT_TIME *
// * IN DRL.DFSMS_LAST_RUN *
// * WHERE DCUSYSID = MVS_SYSTEM_ID *
// * AND DCURCTYP = RECORD_TYPE); *
// * (replace DRL with the table prefix you use) *
// * (the lookup table DFSMS_LAST_RUN must be initialized *
// * before the first collect as described in the DFSMS *
// * customization section of the SP Reference manual) *
// *
// * COLLECT EREP; *
// *
// * SET JES_COMPLEX = ' '; *
// * COLLECT SYSLOG_JES2; *
// *
// * For operations log (OPERLOG) produced using the System *
// * Logger, use the COLLECT statement above and change the *
// * //DRLLLOG statement as follows: *
// * //DRLLLOG DD DSN=SYSPLEX.OPERLOG,DISP=SHR, *
// * DCB=(LRECL=32756, BLKSIZE=32760, RECFM=VB), *
// * SUBSYS=(LOGR,, *
// * 'FROM=(2004/152,00:00),TO=(2004/153,23:59)',) *
// *
// * SET JES_COMPLEX = 'JES3COMP'; *
// * COLLECT SYSLOG_JES3; *
// * (replace JES3COMP with the name of the JES3 complex) *
// *
// * SET MVS_SYSTEM_ID = 'MVS1'; *
// * COLLECT NETVIEW; *
// * (replace MVS1 with the name of the MVS system) *

```

Figure 30. DRLJCOLL job for collecting data from an SMF data set (Part 1 of 2)

Collecting log data

```
/** *
/** COLLECT OPC; *
/** *
/** SET VMID = 'VM1'; *
/** COLLECT VMACCT; *
/** (replace VM1 with the name of the VM system) *
/** *
/** COLLECT VMPRF; *
/** COLLECT VMPERFT; *
/** *
/** COLLECT UNIX; *
/** *
/** COLLECT OS400_JOURNAL; *
/** COLLECT OS400_CONFIG; *
/** COLLECT OS400_HISTORY; *
/** COLLECT OS400_PM_DISK; *
/** COLLECT OS400_PM_POOL; *
/** COLLECT OS400_PM_SYS; *
/** *
/** SET UNLOAD_DATE = 'YYYY-MM-DD'; *
/** SET SYSTEM_ID = 'MVS1'; *
/** COLLECT RACFCONF REPROCESS; *
/** (Replace YYYY-MM-DD with the date when you run the *
/** RACF Database Unload utility. As default, the current *
/** date is used) *
/** (Replace MVS1 with the name of your system. As default, *
/** $UNK is used) *
/** *
/** COLLECT LINUX; *
/** *
/** COLLECT ZLINUX; *
/** *
/** For some logs, special collect jobs are required: *
/** *
/** DRLJCOIM IMS log *
/** DRLJCOVP Network configuration data *
/** DRLJCOIN Tivoli Information Management for z/OS data *
/** *
/** Notes: *
/** Before you submit the job: *
/** - Check the Tivoli Decision Support for z/OS *
/** and DB2 data set names. *
/** - Check the DB2 subsystem name (default is DSN) *
/** and Tivoli Decision Support for z/OS *
/** system table *
/** prefix (default is DRLSYS). *
/** - Insert the correct collect statement in DRLIN *
/** (as described above). *
/** - Specify the name of the log data set in DRLLOG. *
/*******
/**COLLECT EXEC PGM=DRLPLC,PARM=('SYSTEM=DSN SYSPREFIX=DRLSYS')
/**STEPLIB DD DISP=SHR,DSN=DRL181.SDRLLOAD
/** DD DISP=SHR,DSN=DSN710.DSNLOAD
/**DRLIN DD *

COLLECT SMF;

/**DRLLOG DD DISP=SHR,DSN=log-data-set
/**DRLOUT DD SYSOUT=*,DCB=(RECFM=F,LRECL=80)
/**DRLDUMP DD SYSOUT=*,DCB=(RECFM=F,LRECL=80)

/*
```

Figure 31. DRLJCOLL job for collecting data from an SMF data set (Part 2 of 2)

Some logs require special collect procedures, which Tivoli Decision Support for z/OS supplies:

Collect job name	Description
DRLJCOIM	Collects IMS log data
DRLJCOIN	Collects Tivoli Information Management for z/OS data
DRLJCOVP	Collects network configuration data

Collecting data from IMS

DRLJCOIM is a sample job for collecting data from the IMS SLDS log. For information about collecting IMS data and generating composite data records that combine various types of IMS log records, refer to the *IMS Performance Feature Guide and Reference*.

Collecting data from Tivoli Information Management for z/OS

The sample job, DRLJCOIN uses DRLJRFT2 to read data from the Tivoli Information Management for z/OS database. DRLJRFT2 is a Tivoli Information Management for z/OS report format table (RFT) in the DRLxxx.SDRLCNTL library. For information about collecting data from the Tivoli Information Management for z/OS database, refer to the *System Performance Feature Reference Volume 1*.

Collecting network configuration data

DRLJCOVP is a sample job for collecting network configuration data (vital product data). For information about collecting network configuration data, refer to the *Network Performance Feature Reference*.

Performing routine data collection

When you set up Tivoli Decision Support for z/OS collect jobs, consider these guidelines:

- Collect data at off-peak hours.
Log data sets are generally available, online systems have been taken down, and there is less contention for processing resources.
- Collect data daily, at least in the beginning (and especially from SMF and IMS logs).
- If you collect data from several systems, establish a procedure to get all the log data into the system that contains the Tivoli Decision Support for z/OS database.
- Set up automatic procedures for submitting collect jobs. For example, use Tivoli Workload Scheduler for z/OS (previously known as OPC, Operation Planning and Control) to initiate collect jobs. Refer to the Tivoli Workload Scheduler for z/OS documentation for more information about the product. You can also use the log data manager option to automate and obtain better control of the submitting of collect jobs. This option is described in Chapter 15, “Working with the log data manager option,” on page 271.

Monitoring collect activity

Tivoli Decision Support for z/OS provides statistics about collect activity in messages (called *collect messages*) and in the DRLSYS.DRLLOGDATASETS system table, described in the following sections.

Review collect activity to identify:

- Tables in high demand during collect processing (these tables are candidates for tuning to improve performance).
- Errors that occur in user-defined Tivoli Decision Support for z/OS objects.

Collecting log data

- Any other errors that the log collector finds.

Sample collect messages: Figure 32 shows a set of sample messages generated during a collect job.

```

DRL0300I Collect started at 2000-12-04-10.04.15
DRL0302I Processing SMF.DATA.SET on VOL001
DRL0341I The first record timestamp is 2000-06-03-07.00.01.730000.
DRL0308I A database update started after 2608 records due to a buffer-full condition
DRL0342I The last record timestamp is 2000-06-03-11.52.40.220000.
DRL0310I A database update started after 4582 records due to end of log
DRL0313I The collect buffer was filled 1 times. Consider increasing the
collect buffer size.
DRL0003I
DRL0315I Records read from the log or built by log procedure:
DRL0317I Record name          Number
DRL0318I -----
DRL0319I SMF_000                0
DRL0319I SMF_006                6
DRL0319I SMF_007                0
DRL0319I SMF_021                0
DRL0319I SMF_025                0
DRL0319I SMF_026                476
DRL0319I SMF_030               3737
DRL0319I SMF_070                40
DRL0319I SMF_071                40
DRL0319I SMF_072_1             280
DRL0319I SMF_090                0
DRL0320I Unrecognized         3
DRL0318I -----
DRL0321I Total                 4582
DRL0003I
DRL0316I Records built by record procedures:
DRL0317I Record name          Number
DRL0318I -----
DRL0319I SMF_030_X                 2012
DRL0319I SMF_070_X                 200
DRL0318I -----
DRL0321I Total                 2212
DRL0003I
DRL0323I
DRL0324I Table name          -----Buffer----- Database-----
DRL0325I Table name          Inserts  Updates  Inserts  Updates
DRL0326I DRL .AVAILABILITY_D      3       23       2       1
DRL0326I DRL .AVAILABILITY_M      3       1       2       1
DRL0326I DRL .AVAILABILITY_T      9       76       9       0
DRL0326I DRL .MVS_WORKLOAD_H     144     336     132     12
DRL0326I DRL .MVS_WORKLOAD_M      60      12      48      12
DRL0325I -----
DRL0327I Total                 2643    99019    2148    495
DRL0003I
DRL0301I Collect ended at 2000-12-04-10.09.43
DRL0356I To update the database, the algorithm SCAN was most selected.

```

Figure 32. Sample collect messages

Using collect messages: To use collect messages effectively, follow this procedure:

1. Identify which log was collected and when it started.

The first messages in a set of collect messages show when the collect starts and identify the data set. Tivoli Decision Support for z/OS then shows the timestamp of the first identified record in the log, which looks like this:

```

DRL0341I The first record timestamp is
2000-06-03-07.00.01.730000.

```

2. Look for database activity.

Tivoli Decision Support for z/OS writes data to the database when:

- The buffer is full. See “Improving collect performance” on page 147 if the buffer fills often. An example message is:

```

DRL0308I A database update started after 2608 records
due to a buffer-full condition

```

- All log data set records have been processed. An example message is:

```

DRL0310I A database update started after 4582 records
due to end of log

```

Collecting log data

- A specific number of records have been read. The number is specified in the COMMIT AFTER operand of the COLLECT statement. An example message (where 1000 was specified as the COMMIT AFTER operand) is:

```
DRL0309I A database update started after 1000 records.
```

3. Determine the last record that Tivoli Decision Support for z/OS identified in the log; for example:

```
DRL0342I The last record timestamp is  
2000-06-03-11.52.40.220000.
```

4. Review record-type statistical messages.

Collection statistics for record-type processing include:

- The type of each record processed
- The number of each record type found in the log data set
- The total number of records processed

Tivoli Decision Support for z/OS does not process any log records whose record type is either not defined, or defined but not used by collect. It issues a statistical message that labels the records *unrecognized*; for example:

```
DRL0315I Records read from the log or built by log procedure:
```

DRL0317I Record name	Number
DRL0318I ----- -----	
⋮	
DRL0319I SMF_026	476
DRL0319I SMF_030	3737
⋮	
DRL0320I Unrecognized	3
DRL0318I ----- -----	
DRL0321I Total	4582

5. Verify that user-defined log, record, and update definitions are performing as expected. Check that appropriate data is being collected and stored in the appropriate tables.
6. Examine the processing performed by log and record procedures.

When Tivoli Decision Support for z/OS finds records that require handling by record procedures, it produces temporary, intermediate records for further Tivoli Decision Support for z/OS processing. Messages show the names and numbers of intermediate records built by record procedures while Tivoli Decision Support for z/OS was processing the log data set.

The messages appear in a group; for example:

```
DRL0316I Records built by record procedures:  
DRL0317I Record name      Number  
DRL0318I -----|-----  
DRL0319I SMF_030_X          2012  
DRL0319I SMF_070_X          200  
DRL0318I -----|-----  
DRL0321I Total            2212
```

7. Examine database activity to identify tables with the most activity during collect processing.

Database inserts and updates show the number of rows inserted or updated in DB2 tables. The number of rows inserted in the database and the number of rows updated in the database equal the number of buffer inserts. Statistical messages of this sort look like these:

		-----Buffer-----		-----Database-----	
DRL0324I	Table name	Inserts	Updates	Inserts	Updates
DRL0325I	-----	-----	-----	-----	-----
DRL0326I	DRL .AVAILABILITY_D	3	23	2	1
:	:	:	:	:	:
DRL0326I	DRL .MVS_WORKLOAD_M	60	12	48	12
DRL0325I	-----	-----	-----	-----	-----
DRL0327I	Total	2643	99019	2148	495

8. You can use message DRL0356I to optimize the collect process by selecting the SCAN or DIRECT parameter. For more details, refer to the *Language Guide and Reference*. Following is an example of message DRL0356I:

DRL0356I To update the database, the algorithm SCAN was most selected.

Reviewing log statistics: Use the administration dialog to create a log statistics file for any log data set, regardless of whether it has been collected. See "Displaying log statistics" on page 219 for more information.

Note: There are no lookup tables in the table name list.

Using the DRLLOGDATASETS table: The DRLSYS.DRLLOGDATASETS system table contains one row of information for each log data set Tivoli Decision Support for OS/390 collects. DRLLOGDATASETS contains collect statistics, such as elapsed time for a collection, record types collected, and numbers of records processed.

Tivoli Decision Support for OS/390 uses the data set name, log type and the first 80 bytes from the first recognized record to warn against attempts to collect a log data set already collected.

Data sets can contain identical records, but with different names. If you want to be notified when the second data set is processed, redefine the DRLLOGDATASETS system table so that it does not use the DATASET_NAME column as a key. Collection of the second data set fails with ABEND U0016 and an SQL code -803 against the DRLLOGDATASETS system table.

To view collect statistics, select a log definition from the Logs window, press F6 to see the data sets that Tivoli Decision Support for z/OS has collected for the log, choose a data set, and press Enter. The Collect Statistics window is displayed (Figure 33 on page 146).

Note: *First timestamp* is the first record selected, *Last timestamp* is the last record selected. *Last timestamp* might show an earlier date and time than the first timestamp.

Collecting log data

```
                                DCOLLECT Collect Statistics

Press Enter to return.

Data set . . . . . : IM3.DCOLLECT.SLOG14
Volume . . . . . : TSOL06

Time collected . . : 2000-02-11-12.38.00   Collected by . . . : LASZLOM
Elapsed time . . . : 54                   Return code . . . . : 4
Times collected . . : 3                   Completed . . . . . : Y

First record . . . : 000000700000E540000ID5D9C4F10048D2740092
                          276F00000000D7D9C9F0F0F0E700000000280010
First timestamp . . : 2000-10-02-13.15.24
Last timestamp . . . : 2000-10-02-13.15.24

Records read . . . : 16458                Records selected . . : 16458

Database updates . : 7                    Inserts . . . . . : 4954      Deletes . . . . . : 0

F1=Help          F2=Split          F9=Swap          F12=Cancel
```

Figure 33. Collect Statistics window

Tivoli Decision Support for z/OS can produce a report from DRLLOGDATASETS that shows statistics for every collect job in the table.

Tivoli Decision Support for z/OS does not update DRLLOGDATASETS until a collection results in a successful commit. If Tivoli Decision Support for z/OS finds an error that terminates processing of a log data set, such as a locking error or an out of space error, it does not update DRLLOGDATASETS. If it has already created a row for the log data set (which it does at the first commit), it does not update such indicators of a successful conclusion to processing as the Elapsed seconds column or the Complete column. See “Recovering from database errors” on page 162 for more information.

Refer to “DRLLOGDATASETS” on page 293 for a description of its columns.

Collecting multiple log data sets: To collect multiple log data sets, specify the log data set names in the DRLLOG job card of the collect job as follows:

```
//DRLIN DD *
        COLLECT log-name
        ...
//DRLLOG DD DISP=SHR,DSN=log-dat-set-1
        DD DISP=SHR,DSN=log-data-set-2
        DD DISP=SHR,DSN=log-data-set-3
//DRLOUT DD SYSOUT=*
```

If the log collection job stops prematurely, you can start it again. In this case, the log collector does not collect the records of the data sets that were already completely processed and the following messages are issued:

```
DRL0302I Processing log-data-set-1 on EPDM0F
DRL0303W The log data set has already been processed. Data set name: log-data-set-1
```

The COLLECT process completes with a return code of 4.

If a log data set was only partially processed, the log collector does not collect the records that were already collected. In this way, the same data is not summarized twice.

Note: If the IMS checkpoint mechanism (DRLICHKI, DRLICHKO) is used, you cannot resubmit the same collect job when using multiple concatenated IMS data sets. If you resubmit the same collect job you could encounter a problem of duplicate key, because the DRLICHKI of the previous job would be used.

Improving collect performance

Correct collect performance problems with these tuning actions:

1. Optimize the collect buffer size.

Optimizing the size of the collect buffer has the greatest impact on performance:

- a. Reduce the number of times Tivoli Decision Support for z/OS stops reading a log data set to write data to the database by increasing the buffer size.

Message DRL0313I shows the number of database updates because of a full buffer. Look for cases where the number of updates could be reduced by increasing the size of the buffer.

The optimum is to reduce the number of updates to 0.

- b. The default buffer size is 10 MB. Use the buffer size operand of the COLLECT statement to increase the size to 20 MB to 30 MB, or more. Refer to the *Language Guide and Reference* for more information about the COLLECT statement.

- c. Do not use the COMMIT AFTER n records operand on the COLLECT statement.

2. Reduce the amount of data committed to the database:

- a. Remove unnecessary tables using the INCLUDE/EXCLUDE clauses of the COLLECT statement.

- b. Examine collect messages to determine the most active tables.

- c. Concentrate on tables with a lot of buffer and database inserts and updates shown in DRL0326I messages.

- d. Modify update definitions to eliminate needless rows in tables.

For example, set a key column to a constant (such as a blank) instead of to a value from a record if the detail is unnecessary.

- e. Reduce the number of columns collected:

- 1) Delete unneeded columns from the update definition of the table.
- 2) Remove the columns in the SQL CREATE TABLE statement of the table definition.
- 3) Drop the table.
- 4) Re-create the table.

Note: Tivoli Decision Support for z/OS Version 1.8.1 makes use of the DB2 Version 8 multiple insert functionality. When data is collected to data tables, the insert statements are issued in bulk - 50 rows are inserted with a single DB2 multiple insert statement. This results in significant performance improvements. However, this performance improvement decreases as the number of columns inserted increases.

3. Improve update effectiveness:

- a. Define an index on the primary key but no other indexes for tables you create.

- b. Do not use a LOOKUP expression with the LIKE operand (especially for large lookup tables) in update definitions you create. Use an = operand where possible.

Improving collect performance

- c. Minimize the number of rows in lookup tables that allow global search characters and in the PERIOD_PLAN control table.
4. Run collect when the processing load from other programs is low and when DB2 use is light.
5. Optionally, choose the appropriate algorithm to update the DB2 database by specifying the DIRECT or SCAN parameter in the COLLECT statement.

If you do not specify any parameter, the collect process automatically chooses an algorithm among the DIRECT, SCAN and INSERT algorithms. This automatic selection, however, can be very time consuming. To improve the performance, you can force the collect process to use either the DIRECT or SCAN algorithm only, by specifying the DIRECT or SCAN parameter in the COLLECT statement.

For details about these parameters, refer to the *Language Guide and Reference* manual.

Administering the Tivoli Decision Support for z/OS database

Maintaining the Tivoli Decision Support for z/OS database includes purging unneeded data, reorganizing the database, updating DB2 statistics, backing up data, updating views on the DB2 catalog, and protecting the integrity of data by controlling access to it.

Regular maintenance tasks are:

1. Running a purge job.

To control database size, purge data regularly. The Tivoli Decision Support for z/OS PURGE statement lets you delete obsolete data while keeping summarized data. In most cases, the product summarizes hourly and daily data in weekly or monthly tables. Purging daily data does not affect data summarized by month. Using the PURGE statement minimizes the space used and improves collect time.

See “Purging Utility” on page 158 for more information.
2. Running the REORG utility.

The DB2 REORG utility reorganizes tablespaces and indexes to improve DB2 access performance and space utilization. Use the REORG utility after a purge job to free the space of the purged data.

See “Purging Utility” on page 158 for more information.
3. Running a backup job.

Back up the database periodically.

See “Backing up the Tivoli Decision Support for z/OS database” on page 160 for more information.
4. Updating views on the DB2 catalog.

Update views on the DB2 catalog whenever DB2 parameters change, such as when adding a new Tivoli Decision Support for z/OS database or a new prefix for Tivoli Decision Support for z/OS tables, to give all dialog users access to DB2 catalog information.

Besides regularly scheduled jobs, run the RUNSTATS utility periodically while the database is growing to:

- Provide the DB2 optimizer with information. (After the database stabilizes, RUNSTATS does not make a significant contribution to the DB2 optimizer.)
- Provide table size statistics for Tivoli Decision Support for z/OS.

Administering the Tivoli Decision Support for z/OS database

See “Monitoring the size of the Tivoli Decision Support for z/OS database” on page 163 for more information.

The rest of this section introduces Tivoli Decision Support for z/OS's use of DB2 as its database manager and shows how to use DB2 to maintain the the product's database.

Understanding DB2 concepts

By default, Tivoli Decision Support for z/OS names for DB2-related items are:

Tivoli Decision Support for z/OS name

	Description
DSN	Names the DB2 subsystem
DRLDB	Names the Tivoli Decision Support for z/OS database
DRLSSYS1	Names the Tivoli Decision Support for z/OS tablespace that contains log collector system tables
DRLSSYS2	Names the Tivoli Decision Support for z/OS tablespace that contains other Tivoli Decision Support for z/OS system tables
DRLSSAMP	Names the Tivoli Decision Support for z/OS tablespace that contains tables for the Sample component
DRLSCOM	Names the Tivoli Decision Support for z/OS tablespace that contains common tables that most Tivoli Decision Support for z/OS components use

The names of other Tivoli Decision Support for z/OS tablespaces depend on the components you install. There is at least one tablespace for each component.

Figure 34 shows the Tivoli Decision Support for z/OS data areas in the DB2 subsystem.

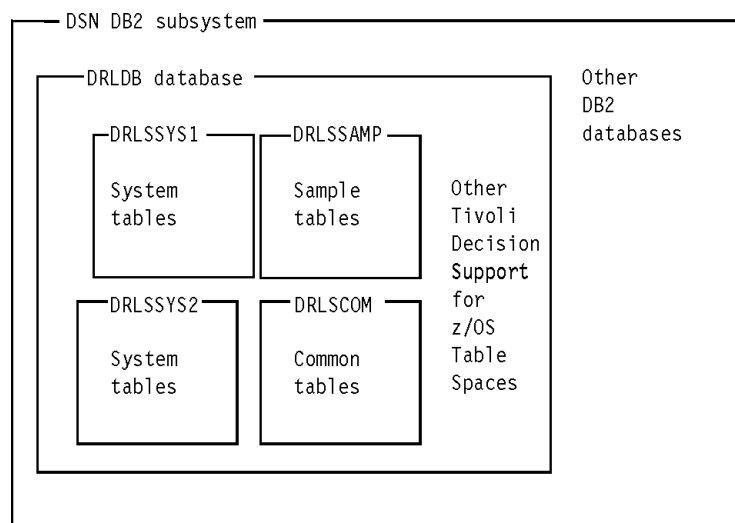


Figure 34. DB2 environment for the Tivoli Decision Support for z/OS database

Understanding how Tivoli Decision Support for z/OS uses DB2

Figure 34 shows a Tivoli Decision Support for z/OS installation that uses one Tivoli Decision Support for z/OS database. There can be more than one Tivoli

Administering the Tivoli Decision Support for z/OS database

Decision Support for z/OS database in one installation of the product, more than one Tivoli Decision Support for z/OS installation in one DB2 subsystem, more than one DB2 subsystem with an installation of the product, and so on.

Understanding tablespaces

Figure 34 shows that the product uses several tablespaces in the DRLDB database. A tablespace contains one or more tables and is the logical unit addressed by DB2 utilities such as COPY and REORGAnize.

The DRLSSYS1 and DRLSSYS2 tablespaces contain Tivoli Decision Support for z/OS system tables and always exist in a functioning Tivoli Decision Support for z/OS system. When you install a Tivoli Decision Support for z/OS component, it creates at least one segmented tablespace for the component within its database. The exact configuration of tablespaces you have depends on the components you have installed.

Administering the Tivoli Decision Support for z/OS database

To list the tablespaces belonging to the current database:

1. Select 4, Tables, from the Administration window.
2. Without selecting a table, select the Maintenance pull-down.
3. Select 1, Tablespace, from the options.

Figure 35 shows the list of tablespaces, with the Utilities pull-down.

The screenshot shows a window titled 'Tablespace list window'. At the top, there are four menu options: 'Tablespace', 'Utilities', 'Other', and 'Help'. Below these is a list of tablespaces. A box highlights the 'Utilities' menu, which contains three options: '1. Run DB2 REORG utility...', '2. Run DB2 RUNSTATS utility..', and '3. Run DB2 REORG/DISCAD utility..'. To the right of the menu, it says 'Row 1 to 20 of 37' and 'abespace definition.'. Below the menu, there is a table with columns: 'Tablespace', 'Primary', 'Secondary', 'Storage grp', 'Type', and 'Locksize'. The table lists several tablespaces with their respective primary and secondary quantities and storage types.

Tablespace	Primary	Secondary	Storage grp	Type	Locksize
DRLSAIX	6000	3000	SYSDEFLT	SEGMENTED	TABLE
DRLSCI08	100	52	STOEPDM	SEGMENTED	TABLE
DRLSCOM	20000	10000	SYSDEFLT	SEGMENTED	TABLE
DRLSCP	60	32	SYSDEFLT	SEGMENTED	TABLE
DRLSDB2	40000	20000	SYSDEFLT	SEGMENTED	TABLE
DRLSDFSM	60000	30000	SYSDEFLT	SEGMENTED	TABLE
DRLSDPAM	100	52	SYSDEFLT	SIMPLE	ANY

Figure 35. Tablespace list window

When you change tablespace or indexspace parameters, the product uses SQL commands to alter the space directly, and creates a job to unload and load table data as necessary. Tivoli Decision Support for z/OS does not change the **definition** of the tablespace: to do this, select the Space pull-down on the Components window.

If you create a table in the the product's database, you must specify the database and tablespace in which DB2 is to create the table. Once created, a table can be addressed by its table name only: you need not specify the tablespace name.

"Working with tables and update definitions" on page 247 describes how to use the administration dialog to view, change, or create tablespaces.

Calculating and monitoring tablespace requirements

To make effective use of the available space, you need to monitor the storage required for your data tables. The sample job, DRLJTBSR (in the DRL181.SDRLCNTL library), produces a detailed report about the space required for some or all of the selected component tables, based on the average record size and estimated number of rows. Figure 36 shows DRLJTBSR.

To customize the job to your requirements, you must change some parameters in DRLJTBSR. For a description of these parameters, see "Parameters for tablespace reporting" on page 154.

Administering the Tivoli Decision Support for z/OS database

```

//DRLJTBSR JOB (ACCT#),'SPACE'                                00000100
//*****                                                    00000200
//*                                                         * 00000300
//* Licensed Materials - Property of IBM                    * 00000400
//*                                                         * 00000500
//* 5698-B06 Copyright IBM Corporation 1992, 2009          *
//* See Copyright instructions.                             * 00000700
//*                                                         * 00000800
//*****                                                    00000900
//*                                                         * 00001000
//* Name: DRLJTBSR                                          * 00001100
//*                                                         * 00001200
//* STATUS: Tivoli Decision Support for zOS 1.8.1          * 00001300
//*                                                         * 00001400
//* FUNCTION: Print a report of estimated total kilobytes based on * 00001500
//*             estimated records number and average record length * 00001600
//*             for each table on component.                * 00001700
//*             Average records length is calculated,if the table is * 00001800
//*             not created, reading TDS for zOS             definition * 00001900
//*             library                                     * 00002000
//*                                                         * 00002100
//* The exec DRLETBSR accepts the following parameters:    * 00002200
//*                                                         * 00002300
//* LIBRARY=          TDS for zOS             definition library * 00002400
//* SYSPREFIX=       TDS for zOS             system table prefix * 00002500
//* DB2SUBSYS=      Db2 subsystem name      * 00002600
//* COMPONENT=      Component name. To have a complete list of * 00002700
//*                                                         * 00002700
//*                                                         * 00002700
//* TABLENAME=     Table name ('*' to select all table)      * 00002800
//* RECNUMBER=      Estimated record numbers                    * 00002900
//* PAGESIZE=       Value of pagesize . Can be 4K or 32K.      * 00003000
//*                                                         * 00003100
//*                                                         * 00003200
//* MAXROWS=        Maximum number of rows per pages. Maximum * 00003300
//*                                                         * 00003400
//*                                                         * 00003500
//*                                                         * 00003600
//* PCTFREE=        Percentage of free space on each page.    * 00003700
//*                                                         * 00003800
//*                                                         * 00003900
//*                                                         * 00004000
//* FREEPAGE=       Number of free space pages. Value allowed * 00004100
//*                                                         * 00004200
//*                                                         * 00004300
//*                                                         * 00004400
//* COMPRESS=       Compression ratio. Optional parameter.    * 00004500
//*                                                         * 00004700
//*                                                         * 00004700
//*                                                         * 00004710
//*                                                         * 00004720

```

Figure 36. DRLJTBSR job that reports tablespace requirements (Part 1 of 2)

Administering the Tivoli Decision Support for z/OS database

```

/**                                                    * 00004800
/** Notes:                                           * 00004900
/**   Before you submit the job, do the following:   * 00005000
/**   1. Check that the data set names are correct.  * 00005100
/**   2. Change the parameters to DRLETBRS as required. * 00005200
/**   3. Change the DB2 load library name according to * 00270000
/**        the naming convention of your installation. * 00260000
/**        Default is 'db2loadlibrary'.              * 00260000
/**                                                    * 00005300
/** CHANGE ACTIVITY:                                 * 00005400
/**   00 1999-12-22 SL Created                       PTR153 * 00005500
/**                                                    * 00005600
/**                                                    *
/** CHANGE ACTIVITY:                                 *
/** CHANGE FLAG  TYPE   DATE   DESCRIPTION           *
/** -----*-----*-----*-----*-----*-----*-----*
/** $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and *
/**                                                    * DB2 dataset names. *
/** $D1=DCR116, TDS181,15/05/09,ADL(RC): Update TDS Version *
/**                                                    *
/******* 00005700
//SPACE EXEC PGM=IKJEFT01,DYNAMNBR=25                00005800
/**                                                    00005900
//STEPLIB DD DISP=SHR,DSN=DRLvrm.SDRLOAD             <== DATA SET NAME 00006000
//SYSPROC DD DISP=SHR,DSN=DRLvrm.SDRLEXEC           <== DATA SET NAME 00006100
//SYSEXEC DD DISP=SHR,DSN=DRLvrm.SDRLEXEC           <== DATA SET NAME 00006200
/******* 00006300
/** START EXEC DRLETBSR                               00006400
//SYSPRINT DD SYSOUT=*                                00006500
//SYSTSPRT DD SYSOUT=*                                00006600
//SYSTSIN DD *                                         00006700
   %DRLETBSR LIBRARY= DRLvrm.SDRLDEFS                 - 00006800
               DB2SUBSYS= DSN                          - 00006900
               SYSPREFIX= DRLSYS                       - 00007000
               COMPONENT= xxxx                         - 00007100
               TABLENAME= *                           - 00007200
               RECNUMBER= xxxx                          - 00007300
               PAGESIZE= 4K                             - 00007400
               MAXROWS= 255                             - 00007500
               PCTFREE= 5                               - 00007600
               FREEPAGE= 0                              - 00007700
               COMPRESS= 0                              00007800
/**                                                    00007900

```

Figure 36. DRLJTBSR job that reports tablespace requirements (Part 2 of 2)

Figure 37 on page 154 shows sample output for job DRLJTBSR that shows the space required for all tables of the IMS collect component.

Administering the Tivoli Decision Support for z/OS database

Statistics for space required for a component:

```

-----;
Input library      : DRL181.SDRLEDFS
Db2 subsystem     : DSN7
PR system prefix  : PRM3SYS
Component         : IMSV710C
Table name        : *
Estimated records number : 500000
Page size         : 4096
Maxrows per page  : 255
Percentage of free space : 5
Number of free pages : 0
Compression ratio : 0
  
```

Table name	New	Tablespace	Definition member	Avg record length	Record per page	Estimated total pages	Estimated kilobytes
IMS_APPLICATION_H	N	DRLSIA01	DRLTIMSA	651	5	100002	400008
IMS_APPLICATION_W	N	DRLSIA02	DRLTIMSA	648	5	100002	400008
IMS_CHKPT_IQSAM_T	N	DRLSIS01	DRLTIMSS	169	22	22730	90920
IMS_CHKPT_POOLS_T	N	DRLSIS02	DRLTIMSS	99	39	12823	51292
IMS_CHKPT_REGION_T	N	DRLSIS03	DRLTIMSS	101	38	13160	52640
IMS_CHKPT_STATS_T	N	DRLSIS04	DRLTIMSS	518	7	71430	285720
IMS_CHKPT_VSAM_T	N	DRLSIS05	DRLTIMSS	194	19	26318	105272
IMS_SYSTEM_D	N	DRLSIY01	DRLTIMSY	642	6	83335	333340
IMS_SYSTEM_Q	N	DRLSIY02	DRLTIMSY	645	6	83335	333340
IMS_TRANSACTION_D	N	DRLSIT02	DRLTIMSR	646	5	100002	400008
IMS_TRANSACTION_H	N	DRLSIT01	DRLTIMSR	649	5	100002	400008
IMS_TRANSACTION_W	N	DRLSIT03	DRLTIMSR	646	5	100002	400008

Figure 37. Sample output for DRLJTBSR

Parameters for tablespace reporting

Table 10. Parameters for tablespace reporting

Parameter	Value to set	Explanation	Default value	Your value
LIBRARY	Tivoli Decision Support for z/OS definition library (UPPERCASE)	The name of the partitioned dataset that contains definitions of Tivoli Decision Support for z/OS tables. This is a required parameter. It is used for component tables that do not yet exist.		
DB2SUBSYS	DB2 subsystems name (UPPERCASE)	The DB2 subsystem where Tivoli Decision Support for z/OS resides. This is a required parameter.		
SYSPREFIX	Prefix for system tables (UPPERCASE)	The prefix of all Tivoli Decision Support for z/OS system and control DB2 tables. This is a required parameter. The value of this parameter depends on your naming convention and is determined during installation.		
COMPONENT	Component name (UPPERCASE)	The name of a Tivoli Decision Support for z/OS component. This is a required parameter.		
TABlename	The name of the table (UPPERCASE)	The name of the Tivoli Decision Support for z/OS table. This is a required parameter. To specify all component tables, type an asterisk, *. To specify all component tables whose names start with a particular string, type the string. For example, type CICS_S for all component tables whose name starts with this string.		
RECNUMBER	Number of rows	The estimated number of rows. This is a required parameter and must be numeric.		

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Table 10. Parameters for tablespace reporting (continued)

Parameter	Value to set	Explanation	Default value	Your value
PAGESIZE	DB2 page size	The DB2 page size. This is an optional parameter; when specified, it must be either 4K or 32K.	4096 (4K)	
MAXROWS	Maximum number of rows per page	The maximum number of rows per page. This is an optional parameter; when specified, it must be a numeric value between 1 and 255.	255	
PCTFREE	Percentage of free space on each page	The percentage of free space per page. This is an optional DB2 parameter; when specified, it must be a numeric value between 1 and 255.	5	
FREEPAGE	Number of free space pages	The number of free space pages. This is an optional DB2 parameter; when specified, it must be a numeric value between 1 and 255.	0	
COMPRESS	Compression ratio	The compression ratio calculated as PERCSAVE/100 (PERCSAVE is the percentage of kilobytes saved by compression as reported by DB2 utility DSN1COMP). This parameter is optional; when specified, it must be a numeric value.	0	

For detailed information about the parameters, refer to the *DB2 Universal Database for OS/390 and z/OS: SQL Reference*.

For information about DB2, refer to the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

For information about the algorithm used for calculating tablespace requirements, refer to the *DB2 for OS/390 Installation Guide*.

Considerations when running DRLJTBSR

The sample job DRLSJTBSR invokes the DRLETBSR exec. Before you can use DRLETBSR, the Tivoli Decision Support for z/OS system tables must have already been created or updated. If a component is already installed, DRLETBSR obtains the average record size of each component table directly from the Tivoli Decision Support for z/OS system tables.

The column NEW in the report shows the table status (N for a table already created, Y for a table that does not exist). The DRLETBSR exec calculates the average record size for each component table.

If a component is not installed, the DRLETBSR exec reads each partitioned dataset member that defines each component table (see the LIBRARY parameter). Use this exec only for standard Tivoli Decision Support for z/OS libraries. Using it for customized libraries can produce unpredictable results. For variable length fields, the average record size is calculated using the maximum length. The average record size does not include GRAPHIC, VARGRAPHIC and LONG VARGRAPHIC DB2 data-types. When you specify the estimated number of records, remember that Tivoli Decision Support for z/OS collects data from tables according to rules specified in the update definitions. Tables containing the same data may therefore have different numbers of rows. For example, an hourly table may contain a greater number of rows than a daily table.

Reorganizing the database

It is important to delete old and useless data from the tables, to have an updated database and improve performance during the query activity. Also, it is important

Administering the Tivoli Decision Support for z/OS database

to reorganize table space after data deletion, to optimize the available space. You can use the following utility to delete data and reorganize table space.

Reorg/Discard Utility

The Reorg/Discard utility enables you to delete the data included in the tables using the Purge condition included in the DRLPURGECOND table, pre-loaded in Tivoli Decision Support for z/OS. At the same time, the Reorg/Discard utility automatically reorganizes the table space where data has been deleted.

The records deleted by the Discard function are automatically saved in a specific data set. SYSPUNCH is the data set containing the saved records, and it can be used at a later time to reload discarded data in the table, if required.

Automatically, during the Discard step, the Reorg function reorganizes the table space to improve access performance and reclaim fragmented space. Also, the keyword STATISTICS is automatically selected for the Reorg/Discard, enabling you to collect online statistics during database reorganization.

See the *DB2 Universal Database for OS/390 and z/OS: Utility Guide and Reference*, for more information about Reorg/Discard utility.

There are two ways to run the Reorg/Discard utility from the Administration window of Tivoli Decision Support for z/OS:

From the Tables window, select option 12 from the Utilities pull-down menu.

The screenshot shows a window titled 'Table Maintenance Utilities Edit View Other Help'. A pull-down menu is open, listing 13 options. Option 12, 'Reorg/Discard...', is highlighted. The window also displays a list of tables on the left and a status bar on the right.

Table Maintenance Utilities Edit View Other Help	
Select one or more	12 1. Display... F11 Row 1 to 21 of 129
/ Tables	2. Show size...
- CICS_DICTIONARY	3. *mport... definition.
- CICS_FIELD	4. *xport...
- DAY_OF_WEEK	5. Grant...
- EXCEPTION_T	6. Revoke...
- IMS_APPLICATION	7. Document...
- IMS_APPLICATION	8. Recalculate...
- IMS_APPLICATION	9. Purge...
- IMS_CHKPT_IOSAM	10. Unload...
- IMS_CHKPT_POOLS	11. Load...
	12. Reorg/Discard...
	13. DB2HP Unload...

Figure 38. Tables window - Option 12

In this way, the data contained in the table or tables selected from the table list is discarded, and a space reorganization is automatically performed in the tablespace where the selected tables reside. Discard operation is only performed on the selected tables, while the Reorg operation is performed on all the tables contained in the tablespace. You cannot run Discard utility on Views, or Tables that have any discard condition specified in the DRLPURGECOND table.

As an alternative, use option 1 from the Maintenance pull-down menu of the Tables window to open the Tablespace window, then select option 3 from the Utilities pull-down menu.

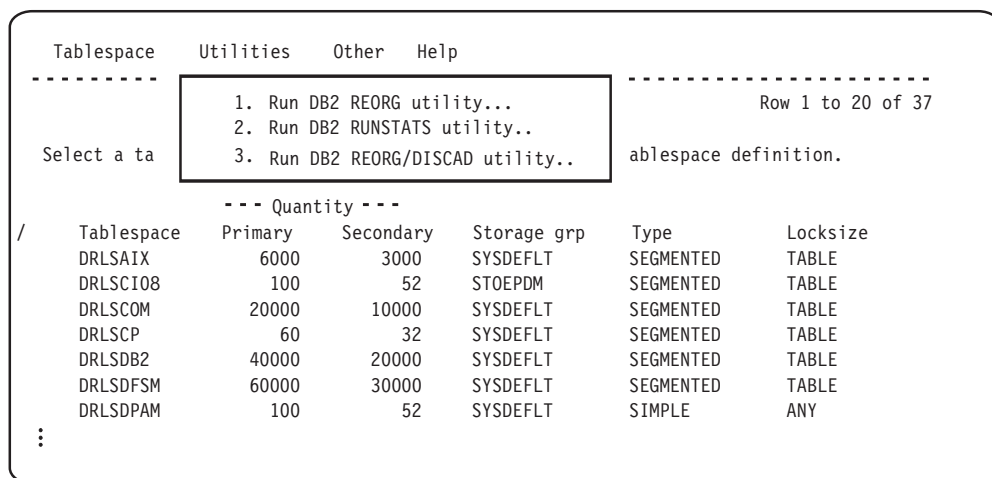


Figure 39. Tablespace list window

In this second case, from the Tablespace window, you select the tablespaces for the Reorg operation: the Discard operation is automatically run on all the tables contained in the selected tablespaces, according to the conditions specified in the DRLPURGECOND table.

All the tables that have a discard condition specified in the DRLPURGECOND table are included in the processing. All the tables that do not have any discard condition specified in the DRLPURGECOND table are ignored.

When you run Reorg/Discard, whichever procedure you use, a JCL is created and saved in your library, so that it can be used at a later time, if required. When the JCL is launched, two data sets are automatically created:

- SYSPUNCH is used to reload the discarded data, if required, using the Load utility.
- SYSDISC contains the records discarded by the utility

In addition, SYSREC data set is available. It contains all the records in the table, and you can specify whether you want it to be Temporary or Permanent. If you specify Temporary, the data set is automatically erased at the end of the reorganization job. If you specify Permanent, it is permanently allocated on your disk.

When using the Reorg/Discard utility, you can select one or more tables and tablespaces at a time. However, in the data sets described above data is overwritten, therefore each data set maintains only the information contained in the last table you processed.

The following is an example of how the Reorg/Discard utility works on a tablespace that contains several tables:

```
//REODIS JOB (ACCOUNT),'NAME'
//*
//*****
//* Run DB2 Utility
//*
//* WARNING (REORG/DISCARD):
//* If you want, you can specify the SORTKEYES option:
//* a subtask sorts the index keys. For this optional
//* operation you have need of enough space in your
//* default Storage Diskfor this SORT operation.
```

Administering the Tivoli Decision Support for z/OS database

```
/**
//*****
//DB2UTIL EXEC DSNUPROC,
// SYSTEM=DSN6,UID=MYUID
/**
//DSNUPROC.STEPLIB DD DISP=SHR,DSN='db2loadlibrary'
//DSNUPROC.SYSREC DD DSN=MYUID.DRLUNLD,UNIT=SYSDA,
// SPACE=(4096,(1,1)),DISP=(MOD,DELETE,CATLG)
//DSNUPROC.SYSUT1 DD DSN=MYUID.DRLWORK,UNIT=SYSDA,
// SPACE=(4096,(1,1)),DISP=(MOD,DELETE,CATLG)
//DSNUPROC.SORTOUT DD DSN=MYUID.DRLSROUT,UNIT=SYSDA,
// SPACE=(4096,(1,1)),DISP=(MOD,DELETE,CATLG)
//DSNUPROC.WORK DD DSN=MYUID.WORK1,UNIT=SYSDA,
// SPACE=(4096,(1,1)),DISP=(MOD,DELETE,CATLG)
//DSNUPROC.SYSPUNCH DD DISP=(MOD,CATLG),
// DSN=MYUID.TAB.SYSPUNCH,
// SPACE=(4096,(1,1)),UNIT=SYSDA
//DSNUPROC.SYSDISC DD DISP=(MOD,CATLG),
// DSN=MYUID.TAB.DISCARDS,
// SPACE=(4096,(5040,504)),UNIT=SYSDA,
// DCB=(RECFM=FB,LRECL=410,BLKSIZE=27880)
//DSNUPROC.SYSIN DD *
REORG TABLESPACE MYDB.DRLSCOM LOG YES
STATISTICS INDEX(ALL) DISCARD
FROM TABLE MYDB.AVAILABILITY_D
WHEN (
    DATE < CURRENT DATE - 90 DAYS
)
FROM TABLE MYDB.AVAILABILITY_T
WHEN (
    DATE < CURRENT DATE - 14 DAYS
)
FROM TABLE MYDB.AVAILABILITY_M
WHEN (
    DATE < CURRENT DATE - 104 DAYS
)
/**
```

In this example, the Reorg/Discard utility reorganizes the MYUID.DRLSCOM tablespace and discards data from the MYDB.AVAILABILITY_D, MYDB.AVAILABILITY_M, and MYDB.AVAILABILITY_T tables. This example shows that the DDNAME for the syspunch data set is SYSPUNCH, the DDNAME for the discard results data set is SYSDISC, and the DDNAME for the sort output data set is defaulted to SORTOUT. The SYSDISC and SYSPUNCH data set are reused every time the utility is run for all tables.

Purging Utility

As an alternative to the Reorg/Discard utility, you can delete data and reorganize table space using the Purge utility. Each data table in a component has a purge condition that specifies which data is to be purged from that table. When you use the purge function, the data specified in the purge condition is deleted.

Purge the contents of your database at least weekly. The sample job, DRLJPURG (in the DRL181.SDRLCNTL library), purges all Tivoli Decision Support for z/OS database tables with purge conditions. Figure 40 on page 159 shows part of DRLJPURG.

Administering the Tivoli Decision Support for z/OS database

```

//DRLJPURG JOB (ACCT#),'PURGE'                                00010003
//*****                                                    00020000
//*                                                           * 00030000
//* LICENSED MATERIALS - PROPERTY OF IBM                     * 00040004
//*                                                           * 00050000
//* 5698-B06 Copyright IBM Corporation 1992, 2009           *
//* SEE COPYRIGHT INSTRUCTIONS.                              * 00070004
//*                                                           * 00080000
//*****                                                    00090000
//*                                                           * 00100000
//* NAME: DRLJPURG                                           * 00110004
//*                                                           * 00120000
//* STATUS: Tivoli Decision Support for zOS 1.8.1            * 00130004
//*                                                           * 00140000
//* FUNCTION:                                                * 00150004
//* PURGE DATA FROM ALL TDS for zOS          TABLES      * 00160004
//* ACCORDING TO THE PURGE CONDITIONS DEFINED FOR THE TABLES)* 00170004
//* IF YOU WANT TO PURGE ONLY SOME TABLES, SPECIFY THE    * 00180004
//* INCLUDE OR EXCLUDE OPTIONS. EXAMPLE:                    * 00190004
//*                                                           * 00200000
//* PURGE INCLUDE LIKE 'DRL.CICS%'                          * 00210000
//*                                                           * 00220000
//* NOTES:                                                    * 00230004
//* 1.CHECK DB2 SUBSYSTEM AND DATA SET NAMES.              * 00240004
//* 2.Change the DB2 load library name according to         * 00270000
//* the naming convention of your installation.              * 00260000
//* Default is 'db2loadlibrary'.                            * 00260000
//*                                                           * 00250000
//*                                                           *
//* CHANGE ACTIVITY:                                         *
//* CHANGE FLAG TYPE DATE DESCRIPTION                       *
//* -----*
//* $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and *
//* DB2 dataset names.                                       *
//* $D1=DCR116, TDS181,15/05/09,ADL(RC): Update TDS Version *
//*                                                           *
//*****                                                    00260000
//PURGE EXEC PGM=DRLPLC,PARM=('SYSTEM=DSN SYSPREFIX=DRLSYS') 00270000
//STEPLIB DD DISP=SHR,DSN=DRLvrms.SDRLOAD                   00280002
// DD DISP=SHR,DSN=db2loadlibrary                          00290000
//DRLIN DD *                                                00300000
                                                    00310000
PURGE;                                                    00320000
                                                    00330000
//DRLOUT DD SYSOUT=*,DCB=(RECFM=F,LRECL=80)                00340000
//DRLDUMP DD SYSOUT=*,DCB=(RECFM=F,LRECL=80)                00350000
/*                                                         00360000

```

Figure 40. DRLJPURG job that uses all purge conditions

Purge generates messages that show if the job ran as expected:

```

DRL0300I Purge started at 2000-05-24-15.12.30.
DRL0404I Table name | Deletes
DRL0405I -----|-----
DRL0406I DRL .RACF_RESOURCE_T | 12376
DRL0406I DRL .RACF_LOGON_T | 98
DRL0406I DRL .RACF_OPERATION_T | 457
DRL0406I DRL .RACF_COMMAND_T | 17
DRL0301I Purge ended at 2000-05-24-15.12.44.

```

After purging the database, use the DB2 REORG utility to free the purged space for future use. There are three methods of reorganizing your database:

1. Use option 1, Run DB2 REORG utility, from the Utilities pull-down on the tablespace list window, shown in Figure 35 on page 151. This reorganizes a whole tablespace.

Administering the Tivoli Decision Support for z/OS database

- Use option 10, Unload, from the Utilities pull-down on the Tables window, after having selected one or more tables. When you Unload and then Load a table, it reorganizes it without affecting the other tables in the tablespace.

Figure 41 shows the list of tables, with the Utilities pull-down.

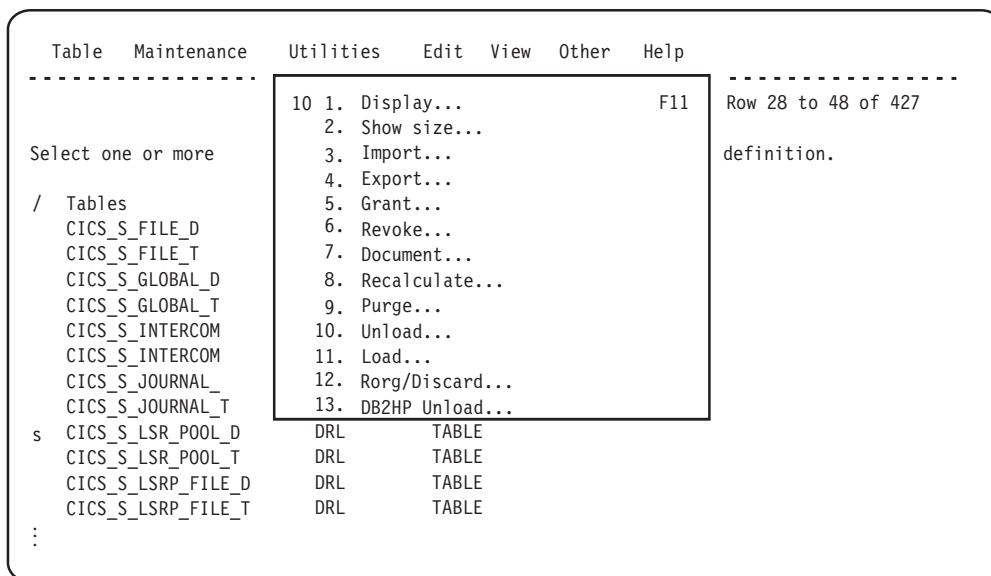


Figure 41. Tables window -Option 10

- Use the sample job, DRLJREOR (in the DRL181.SDRLCNTL library) to build your own job.

Refer to the description of the REORG utility in the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference* for more information.

Backing up the Tivoli Decision Support for z/OS database

Back up the Tivoli Decision Support for z/OS database regularly. Ask your DB2 administrator to add your requirements to site-wide DB2 procedures for backing up the data. If you cannot do this, copy and modify the sample job, DRLJCOPY (in the DRL181.SDRLCNTL library), to back up all Tivoli Decision Support for z/OS tables.

Determine:

- How often to back up the Tivoli Decision Support for z/OS database
- Whether to back up all data or just changed data
- The names of tablespaces in the database

Figure 42 on page 161 shows DRLJCOPY, used to back up the DRLSSYS1 and DRLSSYS2 tablespaces.

Administering the Tivoli Decision Support for z/OS database

```

//DRLJCOPY JOB (ACCT#),'IMAGE COPY'                                00010001
//*****                                                         00020000
//*                                                                 * 00030000
//* LICENSED MATERIALS - PROPERTY OF IBM                        * 00040002
//*                                                                 * 00050000
//* 5698-B06 Copyright IBM Corporation 1992, 2007              *
//* SEE COPYRIGHT INSTRUCTIONS.                                 * 00070002
//*                                                                 * 00080000
//*****                                                         00090000
//*                                                                 * 00100000
//* NAME: DRLJCOPY                                             * 00110002
//*                                                                 * 00120000
//* STATUS: Tivoli Decision Support for zOS 1.8.0              * 00130002
//*                                                                 * 00140000
//* FUNCTION:                                                  * 00150002
//*   RUN THE DB2 IMAGE COPY UTILITY TO MAKE BACKUP COPIES    * 00160002
//*   OF TDSzOS          TABLE SPACES. THIS JOB COPIES      * 00170002
//*   TABLE SPACES DRLSSYS1 AND DRLSSYS2. YOU MUST ADD A COPY * 00180002
//*   STATEMENT AND DATA SET FOR EACH TABLE SPACE THAT YOU * 00190002
//*   WANT TO BACK UP.                                         * 00200002
//*                                                                 * 00210000
//* NOTES:                                                      * 00220002
//*   CHECK THE FOLLOWING:                                       * 00230002
//*     LIB='db2loadlibrary'      DB2 LOAD LIBRARY            * 00240002
//*     SYSTEM=DSN                DB2 SUBSYSTEM NAME          * 00250002
//*     DSN=COPYDSN              NAME OF BACKUP DATASET        * 00260002
//*     SPACE=                   SPACE REQUIRED                 * 00270002
//*     COPY TABLESPACE DB.TS   DATABASE.TABLESPACE NAME    * 00280002
//*     FULL YES/NO              FULL OR INCREMENTAL COPY     * 00290002
//*                                                                 * 00300000
//*                                                                 *
//* CHANGE ACTIVITY:                                           *
//* CHANGE FLAG  TYPE    DATE    DESCRIPTION                    *
//* -----*-----*-----*-----*-----*-----*-----*
//* $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and *
//*                                                                 DB2 dataset names. *
//*                                                                 *
//*****                                                         00310000
//*                                                                 00320000
//UTIL EXEC DSNUPROC,LIB='db2loadlibrary',                      00330000
// SYSTEM=DSN,UID='TEMP',UTPROC=' '                             00340000
//*                                                                 00350000
//COPY01 DD DSN=COPYDSN1,                                        00360002
//  DISP=(MOD,CATLG,CATLG),                                     00370000
//  SPACE=(16384,(50,50),,,ROUND),                             00380000
//  UNIT=SYSDA                                                  00390000
//COPY02 DD DSN=COPYDSN2,                                        00400002
//  DISP=(MOD,CATLG,CATLG),                                     00410000
//  SPACE=(16384,(50,50),,,ROUND),                             00420000
//  UNIT=SYSDA                                                  00430000
//SYSIN DD *                                                    00440000
COPY TABLESPACE DRLDB.DRLSSYS1                                00450000
  COPYDDN COPY01                                              00460000
  FULL YES                                                    00470000
COPY TABLESPACE DRLDB.DRLSSYS2                                00480000
  COPYDDN COPY02                                              00490000
  FULL YES                                                    00500000
/*                                                                 00510000

```

Figure 42. DRLJCOPY job for backing up Tivoli Decision Support for z/OS tablespaces

Determining when to back up the Tivoli Decision Support for z/OS database

Back up the database at least weekly to make it easier to recover from errors.

Determining a level of backup

DB2 provides two methods for backing up data: full-image copy (copy all data), and incremental-image copy (copy only changed data). You can combine the two copies.

Determining which tablespaces to back up

The DB2 COPY utility operates on tablespaces. Ensure that all tablespaces are part of the backup procedures. For more information about backing up a DB2 database, refer to the discussion of backing up and recovering databases in the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

Recovering from database errors

These errors might occur in a Tivoli Decision Support for z/OS database that sees significant activity:

- Out of space in one of the Tivoli Decision Support for z/OS tablespaces or indexspaces
- Corrupted data in the database

The following sections contain descriptions of each condition, how it might occur, and how to correct it.

A description of how to restore DB2 database backups appears in “Correcting corrupted data in the Tivoli Decision Support for z/OS database” on page 163.

Correcting an out-of-space condition in a Tivoli Decision Support for z/OS tablespace or indexspace

A tablespace or indexspace can be out of space if:

- Volumes in the Tivoli Decision Support for z/OS storage group are full.
If DASD is not constrained, the database can continue to grow until performance is an issue. If performance is not an issue, ask the DB2 administrator to add volumes to the Tivoli Decision Support for z/OS storage group.
If you cannot add more volumes to your storage group, purge the database before continuing. After purging data, reorganize the affected tablespaces. See “Purging Utility” on page 158 for more information.
- The tablespace or indexspace used its maximum number of extents.

This could happen if the primary quantity and all secondary quantity (PRIQTY and SECQTY) extents have been exhausted. Tivoli Decision Support for z/OS tablespaces and indexspaces have a default size specification based on an estimated number of rows in tables in the tablespace. These default values may be too small for a very large site. `idd:page>`

To recover from an out-of-space condition:

1. Increase the primary and secondary quantities using the Tivoli Decision Support for z/OS administration dialog (Figure 101 on page 263), or by using the DB2 SQL statements, ALTER TABLESPACE or ALTER INDEX.
2. Reorganize the tablespace using the DB2 REORG utility as described in “Purging Utility” on page 158 or drop the index and recreate it as described in “Displaying and adding a table index” on page 250.

```
DSNT408I  SQLCODE = -904, ERROR:  UNSUCCESSFUL EXECUTION
        CAUSED BY AN UNAVAILABLE RESOURCE. REASON
        00D70025, TYPE OF RESOURCE 00000220 AND RESOURCE
        NAME DB2A.DSNDBC.DRLDB.A.I0001.A001
```

For more information about messages, refer to the *DB2 Universal Database for OS/390 and z/OS: Messages*.

Correcting corrupted data in the Tivoli Decision Support for z/OS database

Corrupted data can occur because of:

- DB2 errors
- Erroneously collecting the same log data set more than once

If the database has been incorrectly updated (for example, accidentally collecting the same log data set twice or deleting required data), restore a previous backup copy with the DB2 RECOVER utility. For information about backing up and recovering DB2 databases, refer to the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

You need not restore Tivoli Decision Support for z/OS data after a collect job terminates from locking or out of space. After correcting the error, run the job again. If the database has been updated, the collect resumes from the last checkpoint recorded in the DRLSYS.DRLLOGDATASETS system table. If it had not committed data to the database before the error, Tivoli Decision Support for z/OS recovers by collecting from the first record in the log.

Monitoring the size of the Tivoli Decision Support for z/OS database

Monitor the size of the database regularly. Use the DB2 RUNSTATS utility to generate current statistics in the DB2 catalog about any DB2 tablespace, including those in the Tivoli Decision Support for z/OS database.

The sample job, DRLJRUNS (in the DRL181.SDRLCNTL library), calls the DB2 RUNSTATS utility. Figure 43 on page 164 shows DRLJRUNS, used to generate statistics for tablespaces DRLSSYS1 and DRLSSYS2.

Administering the Tivoli Decision Support for z/OS database

```
//DRLJRUNS JOB (ACCT#),'RUNSTATS'
//*****
//*
//* Licensed Materials - Property of IBM
//*
//* 5698-B06 Copyright IBM Corporation 1992, 2007
//* See Copyright Instructions.
//*
//*****
//*
//* Name: DRLJRUNS
//*
//* Status: Tivoli Decision Support for zOS 1.8.0
//*
//* Function:
//* Run the DB2 RUNSTATS utility to update the DB2 catalog
//* information about Performance Reporter tables.
//* This job only runs RUNSTATS for the table spaces
//* DRLSSYS1 and DRLSSYS2. You must add a statement for
//* each Performance Reporter table space.
//*
//* Notes:
//* Check the following:
//* LIB='db2loadlibrary' DB2 load library
//* SYSTEM=DSN DB2 subsystem name
//*
//*
//* CHANGE ACTIVITY:
//* CHANGE FLAG TYPE DATE DESCRIPTION
//* -----
//* $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and
//* DB2 dataset names.
//*
//*****
//*
//UTIL EXEC DSNUPROC,LIB='db2loadlibrary',
// SYSTEM=DSN,UID='TEMP',UTPROC=''
//*
//DSNUPROC.SYSIN DD *
RUNSTATS TABLESPACE DRLDB.DRLSSYS1 TABLE INDEX
RUNSTATS TABLESPACE DRLDB.DRLSSYS2 TABLE INDEX
/*
```

Figure 43. DRLJRUNS job for generating DB2 statistics

Learn more about the DB2 RUNSTATS utility from the description of its use in the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

Start the RUNSTATS utility from the administration dialog by choosing it from the Utilities pull-down in the Tables window. After using the RUNSTATS utility, use the administration dialog to see the number of bytes used for data in the Tivoli Decision Support for z/OS database (described in “Showing the size of a table” on page 237).

Understanding how Tivoli Decision Support for z/OS uses DB2 locking and concurrency

DB2 provides locking and dynamic recovery for the databases it controls. The Tivoli Decision Support for z/OS database is under DB2 control and uses these DB2 mechanisms.

More than one Tivoli Decision Support for z/OS user or function can request access to the data at the same time. The way DB2 maintains data integrity during such times is by locking out data to all processes but one.

Administering the Tivoli Decision Support for z/OS database

Learn more about DB2 locking and how it allows more than one process to work with data concurrently from the discussion of improving concurrency in the *Guide to Reporting*.

Deadlock or timeout conditions can occur when more than one user works with Tivoli Decision Support for z/OS tables, which causes DB2 to generate messages; for example:

```
DSNT408I  SQLCODE = -911, ERROR:  THE CURRENT UNIT OF WORK HAS BEEN
          ROLLED BACK DUE TO DEADLOCK OR TIMEOUT.  REASON 00C90088,
          TYPE OF RESOURCE 00000100, AND RESOURCE NAME DRLDB
```

Consider potential locking situations:

- If running more than one collect job at a time, ensure the jobs do not update the same tables.

Although concurrent collects might not update the same data tables, locking can occur for the DRLSYS.DRLLOGDATASETS system table, updated by all collect runs.

- Generating reports while a collect job runs does not usually cause lockouts.

Report queries do not update table information; their access is read-only. However, QMF can hold locks while you display large reports.

- You cannot collect while DB2 utilities such as COPY and REORG are running. Also, you cannot collect and purge simultaneously.

COPY and REORG lock all tables in the tablespace on which they operate. Purge locks the table on which it operates.

- Creating tables (or installing components) locks the entire database.

If some users create many tables, give them a private database. See “Installing multiple Tivoli Decision Support for z/OS systems” on page 52 for more information.

To find out who is locking a resource, use the DB2 COMMANDS option in DB2I to issue this command:

```
-DISPLAY DATABASE(DRLDB) LOCKS LIMIT(100)
```

For more information, refer to the description of monitoring DB2 locking in the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

Maintaining database security

You control user access to database tables. Although Tivoli Decision Support for z/OS grants read access to the DRLUSER group ID for any components you install, you can grant or revoke authority to tables in the Tivoli Decision Support for z/OS database. See “Administering user access to tables” on page 269 for more information.

Monitoring database access

To see which end users access which database tables (for example, if you are considering removing tables), use the DB2 trace facility for tracing table accesses. Analyze the trace outside DB2 with another product. IBM DB2 Performance Monitor (DB2PM) can format, print, and interpret DB2 trace data.

Tracing involves a significant amount of overhead and is not something you should do regularly.

Administering the Tivoli Decision Support for z/OS database

For information about DB2 trace facilities, refer to the description of using tools to monitor performance in the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

For information about DB2PM, refer to the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference* and to the *IBM DB2 Performance Monitor: User's Guide*.

Using available tools to work with the Tivoli Decision Support for z/OS database

IBM and other software suppliers provide a variety of database maintenance tools. Because you have database administrator authority for the Tivoli Decision Support for z/OS database, you can use tools such as DB2I, a part of DB2. With DB2I you can:

- Run SQL statements
- Issue authorized DB2 commands
- Run DB2 utilities
- Work with DB2 objects in your database

Select DB2I from the Other pull-down of any Tivoli Decision Support for z/OS primary window. You can also type DB2I on the command line of a window.

Figure 44 shows the DB2I Primary Option Menu.

```
COMMAND ==>>                                DB2I PRIMARY OPTION MENU

Select one of the following DB2 functions and press ENTER.

 1 SPUFI                (Process SQL statements)
 2 DCLGEN               (Generate SQL and source language declarations)
 3 PROGRAM PREPARATION  (Prepare a DB2 application program to run)
 4 PRECOMPILE          (Invoke DB2 precompiler)
 5 BIND/REBIND/FREE    (BIND, REBIND, or FREE plans or packages)
 6 RUN                  (RUN an SQL program)
 7 DB2 COMMANDS        (Issue DB2 commands)
 8 UTILITIES           (Invoke DB2 utilities)
 9 CATALOG VISIBILITY  (Invoke catalog dialogs)
 D DB2I DEFAULTS       (Set global parameters)
 X EXIT                (Leave DB2I)

F13=HELP   F14=SPLIT   F15=END     F16=RETURN  F17=RFIND   F18=RCHANGE
F19=UP     F20=DOWN    F21=SWAP   F22=LEFT   F23=RIGHT   F24=RETRIEVE
```

Figure 44. DB2I Primary Option Menu

For more information about DB2I, refer to the description of utility jobs in the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

Administering lookup and control tables

Periodically review the contents of Tivoli Decision Support for z/OS lookup and control tables. See Chapter 17, “Control tables and common tables,” on page 307 for a description of the columns in lookup and control tables that many Tivoli Decision Support for z/OS feature components use. Lookup tables used exclusively by a Tivoli Decision Support for z/OS feature are described in the feature's documentation.

Edit each lookup table and control table to implement standards and definitions at your site. “Working with data in tables” on page 234 describes how to edit tables.

Lookup and control tables are particularly important for reporting availability of resources. Discuss availability reporting with your users to determine necessary changes to these tables.

Administering reports

As a Tivoli Decision Support for z/OS administrator, you have authority to run all frequently requested reports in batch mode and distribute them regularly. You can also create report groups that suit your organization.

Running reports in batch

Tivoli Decision Support for z/OS users can generate reports using the reporting dialog (for more information, refer to the *Guide to Reporting*). However, for frequently requested reports, you should set up jobs that produce the reports regularly.

The general procedure is:

1. Specify batch settings for the reports.
2. Define queries and forms suitable for batch reports.
3. Print reports or save them in data sets, using a batch job or the reporting dialog.
4. Optionally, save the reports for reporting dialog users and regularly replace the saved report data with new data.
5. Optionally, include saved charts in BookMaster® documents.

These steps are described in the following sections.

Specifying batch settings

Use the Set batch option in the Batch pull-down in the reporting dialog to specify the batch settings for a report. Batch settings include output options and other options.

Understanding output options for batch reports: There are two output options for batch reports:

- Print the report:
 - If your installation uses QMF, tabular reports are printed to the DSQPRINT file. Otherwise they are printed to the DRLPRINT file.
 - Graphic reports are printed to the printer specified in the job (or to the default printer defined in the QMF profile, if no printer is specified).

Administering reports

The printer name must be defined in the GDDM nicknames file, allocated to the ADMDEFS ddname. Refer to the *QMF: Planning and Administration Guide for MVS* and the *GDDM User's Guide* for more information about defining GDDM nicknames.

If you do not use QMF, all reports are printed in tabular format. If you require graphic reports, you can print a saved report with GDDM-PGF or other tools.

- Save the report in a data set:
 - Tabular reports are saved in the data set defined by the DRLREP ddname, usually DRL.LOCAL.REPORTS.
 - Graphic reports are saved in the data set defined by the ADMGDF ddname, usually DRL.LOCAL.CHARTS.

idd:page>

Saved reports serve different purposes:

- Set up the reporting dialog to use it to look at saved reports.
- Display the reports in other ways, such as from user-written applications.
- Include the reports in BookMaster documents.

Defining report queries and forms for batch execution

Although all Tivoli Decision Support for z/OS reports can be run in batch, most of them are not suited for batch because you must supply values for all the variables in the queries and forms.

For example, a typical query looks like this:

```
SELECT column1, column2, ...
FROM table
WHERE DATE >= &FROM_DATE.
      AND DATE <= &TO_DATE.
      AND SYSTEM_ID = &SYSTEM_ID.
```

When displayed from the dialog, Tivoli Decision Support for z/OS prompts you for values for FROM_DATE, TO_DATE, and SYSTEM_ID. To run the report in batch, you must supply the values in the job and you must change them when you want the reports to cover a different period.

You can change the query to require no variables and always cover the last week:

```
SELECT SYSTEM_ID, column1, column2, ...
FROM table
WHERE DATE >= CURRENT DATE - 7 DAYS
```

Refer to the *Guide to Reporting* for a description of how to create a query.

If the form used contains variables other than the standard variables REPORT_TITLE, PRODUCT_NAME, and REPORT_ID, you must make sure that these variables are set in the batch reporting job, or modify the form. Refer to the *Guide to Reporting* for a description of how to create and modify forms.

Using job DRLJBATR to run reports in batch

The sample job, DRLJBATR (in the DRL181.SDRLCNTL library), produces all, or a subset, of the reports that have batch settings specified. Figure 45 on page 169 shows DRLJBATR.

You need to change some parameters in DRLJBATR to your requirements. For a description of those parameters, see Table 11 on page 174.

```

//DRLJBATR JOB (ACCT#),'REPORTS'                                00010000
//*****                                                    00020000
//*                                                            * 00030000
//* Licensed Materials - Property of IBM                      * 00040002
//*                                                            * 00050000
//* 5698-B06 Copyright IBM Corporation 1992, 2009           *
//* See Copyright instructions.                               * 00070002
//*                                                            * 00080000
//*****                                                    00090000
//*                                                            * 00100000
//* Name: DRLJBATR                                           * 00110002
//*                                                            * 00120000
//* Status: Tivoli Decision Support for zOS 1.8.1           * 00130008
//*                                                            * 00140000
//* Function:                                                * 00150002
//* TDS for zOS batch reporting sample job.                 * 00160002
//*                                                            * 00170000
//* This job is used to print and/or save all (or a selected * 00180002
//* subset of) the batch reports.                            * 00190002
//*                                                            * 00200000
//* Reports printed to : DSQPRINT with QMF (tables)          * 00210002
//*                      DRLPRINT w/o QMF (tables)          * 00220002
//*                      printer specified (charts)          * 00230002
//* Reports saved in   : DRLREP (tables)                     * 00240002
//*                      ADMGDF (charts)                     * 00250002
//* Messages written to: DRLOUT                              * 00260002
//*                                                            * 00270000
//* The exec DRLEBATR accepts the following parameters:     * 00280002
//*                                                            * 00290000
//* SYSTEM=DB2_system DB2 subsystem name. The default is DSN * 00300002
//* SYSPREFIX=sysprefix Prefix for TDSzOS system            * 00310002
//*                      tables. The default is DRLSYS.     * 00320002
//* PREFIX=prefix      Prefix for all other tables. The default * 00330002
//*                      is DRL.                             * 00340002
//* SHOWSQL=YES/NO     Show SQL statements (for debugging).   * 00350002
//*                      YES or NO. The default is NO.      * 00360002
//* CYCLE=run_cycle    Run cycle: DAILY, WEEKLY or MONTHLY.  * 00370002
//*                      If not specified, all reports are printed.* 00380002
//* GROUP=report_group Report group. If not specified, all   * 00390002
//*                      reports are printed.                 * 00400002
//* REPORT=rpt1,rpt2.. Lists the reports to print. If not speci- * 00410002
//*                      fied, all reports are printed.      * 00420002
//* PRINTER=prt_name   Printer to be used for graphic reports. * 00430002
//*                      The default printer is defined in the QMF * 00440002
//*                      profile.                             * 00450002
//* DIALLANG=n         Define the application language. PN46029 * 00460002
//*                      n=1 for English (default)           * 00470002
//*                      n=2 for German                       * 00480002
//*                      n=3 for Japanese                    * 00490002
//* QMF=YES/NO         Report generation with or PN48405 * 00500002
//*                      w/o QMF. YES or NO. Default is YES. * 00510002

```

Figure 45. DRLJBATR job for printing or saving reports in batch (Part 1 of 2) (Part 1 of 5)

Administering reports

```

/** GDDM=YES/NO          GDDM available for graphic      PN48405 * 00520002
/**                      reports. YES or NO. Default is YES.      * 00530002
/** DRLMAX=nnnn         Max number of result rows from      PN48405 * 00540002
/**                      a query w/o QMF. Default is 5000.        * 00550002
/** PAGELEN=nn         Page length used when printing      PN48405 * 00560002
/**                      tabular reports w/o QMF. Default is 60.  * 00570002
/** PAGE=PAGE          This word is used in the report      PN48405 * 00571009
/**                      footing for page numbering tabular      * 00572009
/**                      reports w/o QMF. Default is PAGE        * 00573009
/** TOTAL=TOTAL       This word is used for an across      EPDM111 * 00580009
/**                      summary column header in tabular        * 00590009
/**                      reports w/o QMF. Default is TOTAL        * 00600009
/** DECSEP=PERIOD      PERIOD/COMMA. Decimal separator      EPDM111 * 00601009
/**                      setting for tabular reports without QMF. * 00602009
/** DUALSAVE=xxx       Allow graphic reports to be saved      PN65801 * 00603015
/**                      as tabular reports simultaneously.      * 00604015
/**                      YES/NO (default=NO)                     * 00605015
/** &variable=value    Give a value to a variable used in a   * 00610002
/**                      query or a form. All variables used in   * 00620002
/**                      queries or forms MUST be given a value.  * 00630002
/**                      '' = all values for that variable        PN65801 * 00630115
/**                      '''' means the null value.              PN65801 * 00630215
/**                      NB: for variables used with IN operator  *
/**                      '('x') OR (1=1)' = all values            PQ92756 *
/** PRODDNAME=Tivoli Decision Supp                          PN46029 * 00640002
/**                      This text is used in the report footing. * 00650002
/**                      The default is TDSzOS                    * 00660002
/**                      Note: If specified, PRODDNAME must be the * 00670002
/**                      last parameter.                          * 00680002
/**                      * 00690002
/** Notes:                                                    * 00700002
/** Before you submit the job, do the following:              * 00710002
/** 1. Check that the data set names are correct. Update 'DRLvrn' * 00720002
/**    to match your HLQ for TDSz data sets.                  * 00720002
/** 2. Change the parameters to DRLEBATR as required.          * 00730002
/** 3. Remove QMF DD-statements if you are not using QMF.      PN48405 * 00740002
/**    Search on 'DSQ' to find such occurrences.              PN48405 * 00750002
/**    The exception is DSQUCFRM, which should be changed      PN68060 * 00760000
/**    to DRLUFORM. The dataset name should point to the      * 00760100
/**    user defined forms library.                            * 00760200
/** 4. Change the DB2 load library name according to          * 00270000
/**    the naming convention of your installation.             * 00260000
/**    Default is 'db2loadlibrary'.                          * 00260000
/** * 00760300
/** CHANGE ACTIVITY:                                         * 00770002
/** 00 1993-05-18 JHS Created                                 * 00780002
/** 01 1993-10-25 JCS Variables DIALLANG and PRODDNAME        PN46029 * 00790002
/** 02 1993-12-01 LW Reporting without QMF                   PN48405 * 00800002
/** 03 1994-11-15 IW DRLFORM DD card added for QMF form      * 00801013
/**                      and SYSEXEC set to same as SYSPROC      PN65801 * 00810015

```

Figure 45. DRLJBATR job for printing or saving reports in batch (Part 1 of 2) (Part 2 of 5)

Administering reports

```

/**      04 1994-12-12 LW Allow 'dual' save          PN65801 * 00810115
/**      05 1994-12-15 LW ADMPRNTQ added           PN65906 * 00810215
/**      06 1995-02-16 PN Comment concerning DRLUFORM for PN68060 * 00810216
/**                                     non-QMF users added above.      * 00810217
/**      07 2004-11-03 RV Sysroute of apar PQ92756   PQ96265 *
/**                                     *
/**                                     *
/** CHANGE ACTIVITY: *
/** CHANGE FLAG TYPE DATE DESCRIPTION *
/** -----*
/** $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and *
/**                                     DB2 dataset names. *
/** $D1=DCR116, TDS181,15/05/09,ADL(RC): Update TDS Version *
/**                                     *
/******* 00820000
//REPORT EXEC PGM=IKJEFT01 00830000
/** 00840000
//STEPLIB DD DISP=SHR,DSN=DRLvrms.SDRLOAD 00850008
// DD DISP=SHR,DSN=qmfloadlibrary 00860000
// DD DISP=SHR,DSN=db2loadlibrary 00870000
//SYSPROC DD DISP=SHR,DSN=DRLvrms.SDRLEXEC 00880008
// DD DISP=SHR,DSN=qmfclistlibrary 00890000
//SYSEXEC DD DISP=SHR,DSN=DRLvrms.SDRLEXEC 00891013
// DD DISP=SHR,DSN=qmfexeclibrary 00900013
/******* 00910000
/** MESSAGES 00920002
/** 00930000
//DRLOUT DD SYSOUT=* 00940000
/******* 00950000
/** PRINT REPORTS TO EITHER DSQPRINT OR DRLPRINT PN48405 00960002
/** 00970000
//DSQPRINT DD SYSOUT=*,DCB=(RECFM=FBA,LRECL=133,BLKSIZE=1330) 00980000
//DRLPRINT DD SYSOUT=*,DCB=(RECFM=FBA,LRECL=133,BLKSIZE=1330) 00990000
/******* 01000000
/** SAVE REPORTS IN 01010002
/** 01020000
//DRLREP DD DISP=SHR,DSN=DRL.LOCAL.REPORTS 01030000
//ADMGDF DD DISP=SHR,DSN=DRL.LOCAL.CHARTS 01040000
/******* 01050000
/** GDDM LIBRARIES 01060002
/** 01070000
//ADMGGMAP DD DISP=SHR,DSN=ADMGGMAP1library 01080000
//ADMCFORM DD DISP=SHR,DSN=ADMCFORM1library 01090000
// DD DISP=SHR,DSN=DRLvrms.SDRLFENU 01100008
//ADMSYMBL DD DISP=SHR,DSN=SYS1.GDDMSYM 01110000
//ADMDEFS DD DISP=SHR,DSN=SYS1.GDDMNICK 01120000
/**ADMPRNTQ DD DISP=SHR,DSN=ADMPRINT.REQUEST.QUEUE 01121015
//DSQUCFRM DD DISP=SHR,DSN=DRLvrms.SDRLFENU 01130008
/******* 01140000
/** QMF LIBRARIES 01150002
/** 01160000

```

Figure 45. DRLJBATR job for printing or saving reports in batch (Part 1 of 2) (Part 3 of 5)

Administering reports

```

//DSQDEBUG DD DUMMY                                01170000
//DSQDUMP DD DUMMY                                  01180000
//DSQPDL DD DISP=SHR,DSN=QMFDSQPDLx1library        01190000
//DSQPILL DD DSN=&&SPILL,DISP=(NEW,DELETE),UNIT=SYSDA, 01200000
// SPACE=(CYL,(1,1),RLSE),DCB=(RECFM=F,LRECL=4096,BLKSIZE=4096) 01210000
//DSQEDIT DD DSN=&&EDIT,UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE), 01220000
// DCB=(RECFM=FBA,LRECL=79,BLKSIZE=4029)          01230000
//DRLFORM DD DSN=&&FORMDS,UNIT=SYSDA,SPACE=(TRK,(5,5),RLSE), 01230312
// DCB=(RECFM=VB,LRECL=255,BLKSIZE=2600),DISP=(NEW,DELETE) 01231010
//*****
//* START EXEC DRLEBTR                               01240000
//*                                                  01250002
//*                                                  01260000
//SYSPRINT DD SYSOUT=*                               01270000
//SYSTSPRT DD SYSOUT=*                               01280000
//SYSTSIN DD *                                       01290000
%DRLEBTR SYSTEM=DSN  SYSPREFIX=DRLSYS  PREFIX=DRL  -   01300000
  PRINTER=XXX                                         -   01310000
  REPORT=XXXXXXXX,YYYYYYYY                            -   01320000
  &SYSTEM_ID='SYS1'                                   -   01330000
  &FROM_DATE='1993-01-01'                             -   01340000
  &TO_DATE='1993-04-01'                               -   01350002
  DIALLANG=1                                          -   01360003
  PRODNAME=Tivoli Decision Supp                       01370003
/*                                                    01380000

```

Figure 45. DRLJBATR job for printing or saving reports in batch (Part 1 of 2) (Part 4 of 5)

```

//*****
//* GDDM LIBRARIES
//*
//ADMGGMAP DD DISP=SHR,DSN=ADMGGMAP1library
//ADMCFORM DD DISP=SHR,DSN=ADMCFORM1library
//          DD DISP=SHR,DSN=DRL181.SDRLFENU
//ADMSYMBL DD DISP=SHR,DSN=SYS1.GDDMSYM
//ADMDEFS  DD DISP=SHR,DSN=SYS1.GDDMNICK
//*ADMPRINT DD DISP=SHR,DSN=ADMPRINT.REQUEST.QUEUE
//DSQUCFRM DD DISP=SHR,DSN=DRL181.SDRLFENU
//*****
//* QMF LIBRARIES
//*
//DSQDEBUG DD DUMMY
//DSQDUMP  DD DUMMY
//DSQPNL   DD DISP=SHR,DSN=QMFDSQPNL1library
//DSQSPILL DD DSN=&&SPILL,DISP=(NEW,DELETE),UNIT=SYSDA,
//          SPACE=(CYL,(1,1),RLSE),DCB=(RECFM=F,LRECL=4096,BLKSIZE=4096)
//DSQEDIT  DD DSN=&&EDIT,UNIT=SYSDA,SPACE=(CYL,(1,1),RLSE),
//          DCB=(RECFM=FBA,LRECL=79,BLKSIZE=4029)
//DRLFORM  DD DSN=&&FORMDS,UNIT=SYSDA,SPACE=(TRK,(5,5),RLSE),
//          DCB=(RECFM=VB,LRECL=255,BLKSIZE=2600),DISP=(NEW,DELETE)
//*****
//* START EXEC DRLEBATR
//*
//SYSPRINT DD SYSOUT=*
//SYSPRT   DD SYSOUT=*
//SYSTSIN  DD *
%DRLEBATR SYSTEM=DSN  SYSPREFIX=DRLSYS  PREFIX=DRL  -
PRINTER=XXX          -
REPORT=XXXXXXXX,YYYYYYYY -
&SYSTEM_ID='SYS1'    -
&FROM_DATE='1993-01-01' -
&TO_DATE='1993-04-01' -
DIALLANG=1          -
PRODNAME=Tivoli Decision Supp
/*

```

Figure 45. DRLJBATR job for printing or saving reports in batch (Part 1 of 2) (Part 5 of 5)

Using the reporting dialog to run reports in batch

To create reports in batch from the reporting dialog:

1. From the Tivoli Decision Support for z/OS Administration window, select 5, Reports, and press Enter to display the Reports window.
2. Without selecting any reports in the Tivoli Decision Support for z/OS Reports window, select the Invoke batch option from the Batch pull-down. The Batch Reports Selection window is displayed.
3. Type required information, such as whether to run daily, weekly, or monthly reports, and press Enter. If any of the reports contain variables, the Batch Reports Data Selection window is displayed.
4. Specify values to select the data to be reported, and press Enter to display the job.
5. Edit the job, specifying the parameters described in “Parameters for batch reporting” on page 174. Then type SUBMIT on the command line, and press Enter.
Tivoli Decision Support for z/OS submits your job to run in background.
6. Press F3 to return to the Reports window.

Administering reports

Refer to the *Guide to Reporting* for more information about running reports in batch.

Parameters for batch reporting

Table 11. Parameters for batch reporting

Parameter	Value to set	Explanation	Default value	Your value
SYSTEM	DB2 subsystem name (UPPERCASE)	<p>The DB2 subsystem where Tivoli Decision Support for z/OS resides.</p> <p>This required parameter can be 4 alphanumeric characters. The first character must be alphabetic.</p> <p>The default value is DSN. If the value in this field is something other than DSN, it was changed during installation to name the correct DB2 subsystem.</p> <p>Do not change the value to name another DB2 subsystem to which you might have access. Tivoli Decision Support for z/OS must use the DB2 subsystem that contains its system, control, and data tables.</p>	DSN	
SYSPREFIX	Prefix for system tables (UPPERCASE)	<p>The prefix of all Tivoli Decision Support for z/OS system and control DB2 tables. The value of this field depends upon your naming conventions and is determined during installation.</p> <p>This required parameter can be 8 alphanumeric characters. The first character must be alphabetic.</p> <p>The default is DRLSYS. If the value is something other than DRLSYS, it was changed during installation.</p> <p>Do not change the value; Tivoli Decision Support for z/OS uses this value to access its system tables.</p>	DRLSYS	
PREFIX	Prefix for all other tables (UPPERCASE)	<p>The prefix of Tivoli Decision Support for z/OS data tables in the DB2 database.</p> <p>Valid values are determined at installation.</p> <p>This required parameter can be 8 alphanumeric characters. The first character must be alphabetic.</p> <p>The default is DRL. If the value is something other than DRL, it was changed during installation.</p>	DRL	
SHOWSQL	YES or NO (UPPERCASE)	Here you specify if SQL statements should be shown (for debugging purposes).	NO	
CYCLE	DAILY, WEEKLY or MONTHLY (UPPERCASE)	The run cycle for reports. If you do not specify daily, weekly, or monthly, all reports are printed.	All reports	
GROUP	A report group ID (UPPERCASE)	Here you can specify the ID of a report group. If you do not specify a group, all reports are printed.	All reports	
REPORT	One or more report IDs (UPPERCASE)	Here you can specify one or more reports to be printed. If you do not specify any reports, all reports are printed.	All reports	

Table 11. Parameters for batch reporting (continued)

Parameter	Value to set	Explanation	Default value	Your value
PRINTER	Default printer name (UPPERCASE)	The GDDM nickname of a printer to use for printing graphic reports. The printer should be capable of printing GDDM-based graphics. The printer name must be defined in the GDDM nicknames file, allocated to the ADMDEFS ddname. Refer to the <i>QMF: Reference</i> and <i>GDDM User's Guide</i> for more information about defining GDDM nicknames. This parameter cannot be used if QMF=NO.	As defined in the QMF profile	
DIALLANG	1. English 2. Japanese	With this parameter, you specify the language to be used.	1=English	
QMF	YES or NO (UPPERCASE)	With this parameter, you specify whether your installation uses QMF or not.	YES	
GDDM	YES or NO (UPPERCASE)	With this parameter, you specify if your installation uses GDDM.	YES	
DRLMAX	nnnn	If your installation does not use QMF, you use this parameter to specify the maximum number of result rows from a query.	5000	
PAGELEN	nn	If your installation does not use QMF, you use this parameter to specify the page length when printing tabular reports.	60	
PAGE	The word for page (Mixed case)	If your installation does not use QMF, the word you specify here is inserted before the page number for tabular reports. You can type the word in mixed case, for example, Page.	PAGE	
TOTAL	The word for total (Mixed case)	If your installation does not use QMF, the word you specify here is used as column heading for across summary columns in tabular reports. You can type the word in mixed case, for example, Total.	TOTAL	
DECSEP	Period or comma	If your installation does not use QMF, you use this parameter to specify the decimal separator to be used in tabular reports. If you use a comma as a decimal separator, a period is used as thousands separator, if applicable.	PERIOD	
DUALSAVE	YES or NO (UPPERCASE)	Allow graphic reports to be saved as tabular reports simultaneously.	NO	
&variable	A value	This parameter gives a value to a variable used in a query or form. All variables used in queries or forms must be given a value.		
PRODNAME	Tivoli Decision Support for z/OS Report (Mixed case)	This text is used in the report footer. If specified, PRODNAME must be the last parameter.	Tivoli Decision Support for z/OS Report	

Saving reports for reporting dialog users

You can save report data from a reporting job like DRLJBATR. Creating reports for batch preprocessing and then saving them for end users means:

- Users need not access the Tivoli Decision Support for z/OS database if they have access to current reports instead.
- Users need not take the time to run reports.

Administering reports

- Users have the data they need to begin analysis immediately.

To preprocess reports for dialog users:

1. Define the batch report as described in “Specifying batch settings” on page 167.
2. Select the batch report and select 4, Save report data, from the Reports pull-down. The Saved Report Definition window is displayed. Refer to the *Guide to Reporting* for information about defining saved reports in the Saved Report Definition window.
3. After completing all fields in the Saved Report Definition window, press Enter. The report is run and saved in the specified member.
4. Add the saved report to a report group, such as *Monthly Management Reports*, to let users display relevant reports easily.
Refer to the *Guide to Reporting* for information about adding a report to a report group.

After you complete the steps above, you can run the batch report periodically (using the DRLJBATR job) to replace the saved report member with up-to-date information.

Including saved charts in BookMaster documents

Tivoli Decision Support for z/OS produces graphic reports in ADMGDF format. It saves them to the data set identified by the job's ADMGDF ddname or the Saved chart data set field of the Dialog Parameters window. To include charts in a BookMaster document, convert them to page segments (PSEGs).

The GDDM-PGF utility, ADMUCDSO, can perform the conversion. Figure 46 shows a sample job for producing a page segment. Refer to the *GDDM-PGF Programming Reference* for a complete description of the utility.

```
//job card
//TSO      EXEC PGM=IKJEFT01
//ADMGDF   DD DISP=SHR,DSN=DRL.LOCAL.CHARTS           IN: ADMGDF
//ADMIMAGE DD DISP=SHR,DSN=xxx.xxx.PSEG3820(SAMPLE01) OUT: PSEG3820
//SYSTSPRT DD SYSOUT=*
//SYSTSIN  DD *
CALL 'SYS1.LINKLIB(ADMUCDSO)' -
'SAMPLE01 GDF 99 4 IMG240 (5 1 6 0 7 10 8 65 45 0 9 1) (ADMIMAGE)'
/*
```

Figure 46. Converting saved graphic report data to a page segment

To use the SAMPLE01 page segment in a BookMaster document that Document Composition Facility (DCF) can format, you use an artwork tag (Figure 47):

```
:h1.Sample Report 1
:p.This surface chart shows the CPU time consumed by different projects.
It gives an hourly profile for an average day.
:artwork name=sample01.
```

Figure 47. Using reports in BookMaster documents

QMF batch reporting

Batch reporting can also be performed with QMF only, without using Tivoli Decision Support for z/OS functions. A QMF job can simply execute a QMF

procedure that contains QMF commands (Figure 48).

```

RUN QUERY1 (FORM=FORM1
PRINT REPORT
RUN QUERY2 (FORM=FORM2
PRINT REPORT (PRINTER=LOCAL1

```

Figure 48. Using QMF to report in batch

These books contain more information about using QMF in this way:

- *QMF Advanced User's Guide*
- *QMF Reference*

Creating report groups

Tivoli Decision Support for z/OS reports are grouped by component within each feature. Placing more commonly requested reports in new report groups can ease retrievability. Report groups for users with special requirements, such as managers, also makes Tivoli Decision Support for z/OS reporting more effective.

Refer to the *Guide to Reporting* for information about creating report groups.

Administering problem records

The update definitions of some Tivoli Decision Support for z/OS components update the common table, EXCEPTION_T, with data about system exceptions that require attention. Review this information and use the Tivoli Decision Support for z/OS interface for adding selected exceptions to the Tivoli Information Management for z/OS database.

You can review exceptions only through the administration dialog. You can generate problem records with either the dialog or a job.

Reviewing exceptions and generating problem records

To review exceptions and generate problem records:

1. Select 2, Generate problem records, from the Utilities pull-down of the Tivoli Decision Support for z/OS Administration window and press Enter.
The Exception Selection window is displayed.
2. Type 2, No, in the Problems only field to list all exception records.

Note: The default update definitions do not classify exceptions as problems. You can modify them to set the problem flag (column PROBLEM_FLAG='Y' in the EXCEPTION_T table).

3. Type 1, Yes, in the Not generated only field to select exception records that have not yet been generated as problem records in the Tivoli Information Management for z/OS database.
4. Select values for other required fields in the window.
Use the fields to restrict the number of exceptions in the list of exceptions.
Use F4 (Prompt) to see a selection list for any field in the Exception Selection window.
5. Press Enter to see the list of exceptions.
The Exception List window is displayed.
6. Select an exception and press Enter.

Administering problem records

The Generate Record window is displayed, showing the exception record in detail.

7. If the exception record is one you want to add to the Tivoli Information Management for z/OS database, press Enter.

Tivoli Decision Support for z/OS generates the problem record.

Generating problem records in batch

Although the sample job, DRLJEXCE (in the DRL181.SDRLCNTL library) does not let you review exception records, it generates problem records in the Tivoli Information Management for z/OS database only from EXCEPTION_T records defined as problems.

Note: You must customize the Tivoli Decision Support for z/OS update definitions that add records to EXCEPTION_T to set the problem flag column.

Administering problem records

```

//DRLJEXCE JOB (ACCT#),'EXCEPTION REPORTING'                                00010003
//*****                                                                    00020000
//*                                                                           * 00030000
//* LICENSED MATERIALS - PROPERTY OF IBM                                  * 00040004
//*                                                                           * 00050000
//* 5698-B06 COPYRIGHT IBM CORPORATION 1993, 2009                       * 00060004
//* SEE COPYRIGHT INSTRUCTIONS.                                          * 00070004
//*                                                                           * 00080000
//*****                                                                    00090000
//*                                                                           * 00100000
//* NAME:      DRLJEXCE                                                  * 00110004
//*                                                                           * 00120000
//* STATUS:    Tivoli Decision Support for zOS 1.8.1                    * 00130004
//*                                                                           * 00140000
//* FUNCTION:  EXCEPTION REPORTING.                                       * 00150004
//*           PROBLEM RECORDS ARE GENERATED BY TIVOLI SERVICE DESK      * 00160004
//*           FOR ALL RECORDS IN THE EXCEPTION TABLE (EXCEPTION_T),    * 00160004
//*           WHERE                                                       * 00170004
//*           A) THE PROBLEM_FLAG COLUMN INDICATES THAT THIS RECORD     * 00180004
//*              IS A PROBLEM RECORD (PROBLEM_FLAG='Y')                 * 00190004
//*           B) AND THE DATE_GENERATED COLUMN INDICATES THAT THE      * 00200004
//*              TIVOLI SERVICE DESK DATABASE HAS NOT BEEN UPDATED     * 00210004
//*              WITH THIS RECORD (DATE_GENERATED IS NULL).             * 00210004
//*                                                                           * 00230000
//* INPUT PARAMETERS:                                                    * 00240004
//*   SYSTEM=DB2-SUBSYSTEM      DB2 SUBSYSTEM (DEFAULT=DSN)             * 00250004
//*   PREFIX=PREFIX            TABLE PREFIX (DEFAULT=DRL)              * 00260004
//*   MODE=BATCH               BATCH/ONLINE (DEFAULT=BATCH)            * 00270004
//*   APPLID=XXXXXXXX          APPLICATION ID (DEFAULT=SYSUID)          * 00280004
//*   SESSMBR=XXXXXXXX         SESSION MEMBER (DEFAULT=BLGSES00)       * 00290004
//*   PRIVCLASS=XXXXXXXX       PRIVILEGE CLASS (DEFAULT=MASTER)        * 00300004
//*                                                                           * 00310000
//* OUTPUT: - PROBLEM RECORD(S) CREATED IN TIVOLI SERVICE DESK.        * 00320004
//*          - TABLE EXCEPTION T UPDATED WITH PROBLEM NUMBER          * 00330004
//*          AND DATE GENERATED.                                        * 00340004
//*          - RESULT FILE WRITTEN TO FILE DEFINED BY DRLOUT DD.       * 00350004
//*                                                                           * 00360000
//* NOTES: BEFORE YOU SUBMIT THIS JOB, DO THE FOLLOWING:                * 00370004
//*   1. ENSURE THAT YOU (OR THE VALUE SPECIFIED BY APPLID) ARE        * 00380004
//*      REGISTERED AS A VALID APPLICATION ID IN TIVOLI SERVICE DESK.   * 00390004
//*   2. CHECK THAT THE DATASET NAMES ARE CORRECT.                    * 00400004
//*   3. CHANGE THE PARAMETERS TO DRLREGE AS REQUIRED.                  * 00410004
//*   4. Change the DB2 load library name according to                  * 00270000
//*      the naming convention of your installation.                    * 00260000
//*      Default is 'db2loadlibrary'.                                   * 00260000
//*                                                                           * 00420000
//*                                                                           *
//* CHANGE ACTIVITY:                                                    *
//* CHANGE FLAG TYPE   DATE     DESCRIPTION                               *
//* -----*
//* $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and      *
//*                                           DB2 dataset names.      *
//* $D1=DCR116, TDS181,15/05/09,ADL(RC): Update TDS Version         *
//*                                                                           *
//*****                                                                    00430000
//*                                                                           00440000
//EPDMEXCE EXEC PGM=IKJEFT01,DYNAMNBR=25                                00450000
//STEPLIB DD DISP=SHR,DSN=TSD.SBLMMOD1                                00460000
//        DD DISP=SHR,DSN=DRLvrms.SDRLLOAD                            00470002
//        DD DISP=SHR,DSN=db2loadlibrary                              00480000
//SYSPROC DD DISP=SHR,DSN=DRLvrms.SDRLEXEC                            00490002
//*-----*
//* TIVOLI SERVICE DESK LIBRARIES                                       * 00500000
//*-----*
//BLGSD DD DISP=SHR,DSN=TSD.SDDS                                       00530000
//BLGSI DD DISP=SHR,DSN=TSD.SDIDS                                       00540000
//BLGSL DD DISP=SHR,DSN=TSD.SDLDS                                       00550000
//BLGPNL0 DD DISP=SHR,DSN=TSD.IBMPNLS                                       00560000
//BLGPNL1 DD DISP=SHR,DSN=TSD.RPANEL1                                       00570000
//BLMFMT DD DISP=SHR,DSN=TSD.BLMFMT                                       00580000
//ISPLLIB DD DISP=SHR,DSN=TSD.SBLMMOD1                                       00590000
//*-----*
//DRLOUT DD SYSOUT=*

```

Chapter 12. Working with components

This chapter describes how to use the administration dialog to work with components. After reading this chapter, you should be familiar with these tasks:

- “Installing a component” on page 182
- “Uninstalling a component” on page 190
- “Working with a component definition” on page 190

In Tivoli Decision Support for z/OS, a component refers to a logical group of objects used to collect log data from a specific source, to update the Tivoli Decision Support for z/OS database using that data, and to create reports from data in the database. Grouping objects into a component enables you to:

- Install or remove (uninstall) a set of related objects as a package
- View and work with a set of related objects

Each Tivoli Decision Support for z/OS component can include:

- Log collector definitions for:
 - Log types
 - Log procedures
 - Record types in log data sets
 - Record procedures
 - Update definitions
- SQL statements that define these DB2 objects for the component:
 - Tablespaces
 - Tables
 - Lookup tables
 - Views
- Report definitions for the component:
 - Report groups
 - Reports

Definition members in Tivoli Decision Support for z/OS libraries contain component object definitions. You can use the administration dialog to examine statements in these definitions. For an explanation of the statements, see the *Language Guide and Reference*.

You can use the administration dialog to work with components. From the Administration window (see Figure 3 on page 10), select 2, Components, and press Enter.

The Components window is displayed.

Installing and uninstalling a component

The Components window lists the components available for Tivoli Decision Support for z/OS installation on your system. When you install a component, Tivoli Decision Support for z/OS executes definitions in the component to define all its objects. Then you can use the component to collect, store, and create reports on log data that it supports.

If you no longer need a component, you can use the administration dialog to uninstall it. When you *uninstall* a component, Tivoli Decision Support for z/OS

Installing and uninstalling a component

deletes from its system tables all objects in that component that are not used by any other installed component. It also deletes all of the component's DB2 objects, including tables and tablespaces. The data sets that contain object definition statements are still available, so you can reinstall the component if necessary. The component still appears in the list in the Components window. "Uninstalling a component" on page 190 describes this procedure.

Migration considerations- To migrate an already-installed component to the new release, modification or maintenance level, you must first migrate your base. The procedure for migrating your base is described in "Migrating the product base to the latest level" on page 15. When the base is successfully migrated, you can then migrate individual components, as described in Chapter 6, "Migrating components from earlier releases of Tivoli Decision Support for z/OS," on page 85.

Installing a component

Migration considerations - If you are reinstalling a component because you are migrating from an earlier release or modification level of the product, refer to Chapter 6, "Migrating components from earlier releases of Tivoli Decision Support for z/OS," on page 85 and "Chapter 6, "Migrating components from earlier releases of Tivoli Decision Support for z/OS"" for more information.

1. Refer to these books to plan the tasks you must perform to complete the installation:

Feature name	Book name
AS/400 Performance	AS/400 System Performance Feature Guide and Reference
CICS Performance	CICS Performance Feature Guide and Reference
Distributed Systems Performance	Distributed Systems Performance Feature Guide and Reference
IMS Performance	IMS Performance Feature Guide and Reference
Network Performance	Network Performance Feature Installation and Administration
System Performance	System Performance Feature Reference

For Resource Accounting, see the *Resource Accounting for z/OS* book.

2. If you want to review DB2 parameters before installing a component, select the component in the Components window, and select the Space pull-down, as shown in Figure 50..

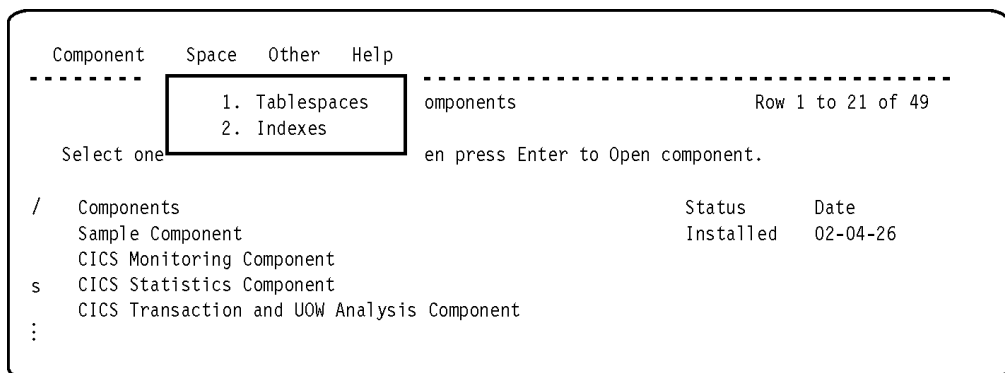


Figure 50. Space pull-down

You can use this pull-down to review and change DB2 space parameters such as:

- Buffer pool
- Compression
- Erase on deletion
- Free space
- Lock size
- Number of partitions, for a partitioned space
- Number of subpages, for an indexspace
- Primary and secondary space
- Segment size
- Type of space
- VSAM dataset password

These parameters can affect the performance of your system. If you are unsure how these parameters affect your system, you are recommended to use the defaults provided with Tivoli Decision Support for z/OS. If you are unsure about the meaning of a field, press F1 to get help. You should also refer to the CREATE INDEX and CREATE TABLESPACE command descriptions in *DB2 Universal Database for OS/390 and z/OS: SQL Reference*.

Tivoli Decision Support for z/OS saves the changed definitions in your local definitions library. When you save a changed definition, it tells you where it is saving it, and prompts you for a confirmation before overwriting a member with the same name.

3. If you are migrating the CICS Monitoring component, execute the INSERT statement (contained in the DRLTCIFI member) to fill in the CICS_FIELD table. Consider modifying this member if you had customized it in the previous release.

After copying your own modifications in this member, you can run it through Option 5, Process Tivoli Decision Support for z/OS statements, from the Other pull-down.

After migrating the CICS Monitoring component, some consideration needs to be given to refreshing the CICS_DICTIONARY table. This process is described in “How Tivoli Decision Support for z/OS processes dictionary data” in the *CICS Performance Feature Guide and Reference*.

4. From the Components window, select the component to install and press F6 (Install).

If the component you selected contains subcomponents, the Component Parts window is displayed. Either select the subcomponents to install or press F12 to install only those objects that are not in a subcomponent. (Tivoli Decision Support for z/OS might install some common definitions for the component even though you do not select any of the parts to install.)

The Installation Options window is displayed (Figure 51 on page 184).

Installing and uninstalling a component

```
Component   Space   Other   Help
-----
Installation Options
TO 30 OF 48
Date
S Select one of the following.  Then press Enter.
/
/   1.  Online
/   2.  Batch
- F1=Help   F2=Split   F6=Objects   F9=Swap   F12=Cancel
-
/ RACF Component
- Sample Component
- Storage Management Component
- VM Accounting Component
- VM Performance Component
***** BOTTOM OF DATA *****

Command ==>
F1=Help   F2=Split   F3=Exit   F5=New   F6=Install   F7=Bkwd
F8=Fwd    F9=Swap    F10=Actions   F12=Cancel
```

Figure 51. Installation Options window

5. From the Installation Options window, decide whether to install the component online or in batch mode.

From the Installation Options window, you can press F6 (Objects) to see a list of objects in the component. This gives you some idea of its size.

Batch installation leaves an audit trail of what it has done in its spooled output.

Installing a component locks write access to the database, whether you choose online or batch installation. While batch installation occurs, you can use Tivoli Decision Support for z/OS to do anything but update a table in the Tivoli Decision Support for z/OS database. You can also use your terminal to perform any ISPF or TSO task.

6. Select 1 (online) or 2 (batch) and press Enter.

If installing the component online, see the next section, “Installing the component online.”

If installing the component in batch mode, see “Installing the component in batch mode” on page 186.

Installing the component online

Tivoli Decision Support for z/OS runs the SQL, log collector, and report definition statements to create the objects in the component. The resulting messages are displayed in a browse window:

1. If the return code is greater than 0, investigate the messages. For example, the following message indicates a problem accessing the database. DB2 messages are described in *DB2 Universal Database for OS/390 and z/OS: Messages*. If you get this message, you must reinstall the component:

```
DSNT408I  SQLCODE = -911, ERROR:  THE CURRENT UNIT OF WORK HAS
        BEEN ROLLED BACK DUE TO DEADLOCK OR TIMEOUT.  REASON
        00C9008E, TYPE OF RESOURCE 00000100, AND RESOURCE
        NAME DRDLDB
```

Correct any error conditions that Tivoli Decision Support for z/OS the product discovers, and install the component again. If the return code is 8 or lower, the status of the component status is **Installed**.

If there are no DB2 messages, *userid.DRLOUT* can look like Figure 52.

```

DB2 Messages
SQL statements executed successfully
-----
Line      Log Collector Messages
-----
      93
DRL0125I The record SMF_080 is defined.
      96
DRL0130I The comment is stored for the record SMF_080.
     1007
DRL0201I The update RACFCOMMAND_80 is defined.
     1014
DRL0403I The purge condition for DRL      .RACF_COMMAND_T is added.
     1138
DRL0201I The update RACFLOGON_80 is defined.
     1145
DRL0403I The purge condition for DRL      .RACF_LOGON_T is added.
     1293
DRL0201I The update RACFOPERATION_80 is defined.
     1300
DRL0403I The purge condition for DRL      .RACF_OPERATION_T is added.
     1466
DRL0201I The update RACFRESOURCE_80 is defined.
     1473
DRL0403I The purge condition for DRL      .RACF_RESOURCE_T is added.

Line      Report Definition Messages
-----
     1503
DRL3001I The group RACF is defined.
     1511
DRL3001I The report RACF01 is defined.
     1519
DRL3001I The report RACF02 is defined.
     1527
DRL3001I The report RACF03 is defined.
     1535
DRL3001I The report RACF04 is defined.
     1543
DRL3001I The report RACF05 is defined.
     1551
DRL3001I The report RACF06 is defined.
     1559
DRL3001I The report RACF07 is defined.
-----

```

Figure 52. Sample log collector messages

- When you finish browsing the output data set, press F3 (Exit).

If the component has lookup tables, the Lookup Tables window is displayed (Figure 53 on page 186).

Installing and uninstalling a component

```
Component  Space  Other  Help
-----
Lookup Tables                                ROW 1 TO 3 OF 3

Select a lookup table.  Then press Enter to Edit the table in ISPF Edit
mode.

/  Lookup table
-  RACF_EVENT_CODE
-  RACF_RES_OWNER
-  RACF_USER_OWNER
***** BOTTOM OF DATA *****

Command ==>
F1=Help      F2=Split    F5=QMF add  F6=QMF chg  F7=Bkwd     F8=Fwd
F9=Swap      F12=Cancel

-  VM Accounting Component
-  VM Performance Component

Command ==>
F1=Help      F2=Split    F3=Exit     F5=New       F6=Install  F7=Bkwd
F8=Fwd       F9=Swap     F10=Actions F12=Cancel
```

Figure 53. Lookup Tables window

Refer to the appropriate feature book (shown in step 1 on page 182) for a description of its component lookup tables and how you must edit them.

- To edit a lookup table using ISPF edit, select a table, and press Enter.
Tivoli Decision Support for z/OS accesses the ISPF editor where you can edit the lookup table as described in “Editing the contents of a table” on page 235. If you have QMF installed, you can use the QMF table editor to edit tables wider than 255 characters. If the table has more rows than the value you set for the SQLMAX value field in the Dialog Parameters window, Tivoli Decision Support for z/OS prompts you to temporarily override the default for this edit session. To edit a lookup table using the QMF table editor in add mode, press F5 (QMF add). To edit a lookup table using the QMF table editor in change mode, press F6 (QMF chg). Editing the contents of a table also describes using QMF to edit tables.
- After you make any necessary changes to a lookup table, press F3 (Exit) to save your changes.
Tivoli Decision Support for z/OS returns to the Lookup Tables window.
- Edit any other lookup tables that the component requires.
When you finish, the installation is complete.
- Press F12 (Cancel).
Tivoli Decision Support for z/OS returns to the Components window.
Tivoli Decision Support for z/OS has changed the Status field for the component to read Installed.
- Press F3 (Exit).
Tivoli Decision Support for z/OS returns to the Administration window.

Installing the component in batch mode

Tivoli Decision Support for z/OS builds a batch job to run the SQL, log collector, and report definition statements to create the objects in the component. It then initiates an ISPF edit session. You may have to edit the JCL, for example, to change the job card. Figure 54 on page 187 shows a job in an ISPF edit session.


```

EDIT ---- XLLOYDA.SPFTEMP2.CNTL -----COLUMNS 001 072

***** ***** TOP OF DATA *****
000001 //XLLOYDAA JOB (ACCOUNT),'NAME'
000002 //*
000003 //*
000004 //*
000005 //RUNLOG EXEC PGM=DRLPLC,
000006 // PARM=('SYSTEM=DSN SYSPREFIX=DRLSYS &PREFIX=DRL',
000007 // '&DATABASE=DRLDB &STOGROUP=DRLSG')
000008 //STEPLIB DD DISP=SHR,DSN=DRLxxx.SDRLOAD
000009 // DD DISP=SHR,DSN=DSNxxx.SDSNLOAD
000010 //DRLLOG DD DUMMY
000011 //DRLOUT DD DSNAME=&TEMP,UNIT=SYSDA,
000012 // DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160),
000013 // SPACE=(CYL,(10,2)),DISP=(NEW,PASS)
000014 //DRLDUMP DD SYSOUT=*,DCB=BLKSIZE=6160
000015 //DRLIN DD *
000016 SQL SET CURRENT SQLID='DRL';
000017 SET USERS='DRLUSER';
000018 // DD DSN=DRLxxx.SDRLDEFS(DRLRS080),DISP=SHR
COMMAND ==> submit SCROLL ==> 0020
F1=HELP F2=SPLIT F3=END F4=RETURN F5=RFIND F6=RCHANGE
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=RETRIEVE

```

Figure 54. Editing an installation job

After editing the job:

1. Type SUBMIT on the command line and press Enter.
2. Press F3 after submitting the job.
Tivoli Decision Support for z/OS returns to the Components window. The Status field shows Batch which does not mean that the job completed, or that it completed successfully. The installation job changes the value to Installed at its successful completion.
3. When the job completes, use a tool such as the Spool Display and Search Facility (SDSF) to look at the job spool.
4. Review messages for errors as described in step 1 on page 184.
5. Exit SDSF (or whatever tool you are using to review the job spool).
6. Exit the Components window.
7. Refer to the book for the appropriate feature for a description of the component lookup tables you must edit.
8. Select 4, Tables, from the Administration window.
The Tables window is displayed.
9. Select 2, Some, from the View pull-down.
The Select Table window is displayed (Figure 55 on page 188).

Installing and uninstalling a component

```

Table  Maintenance  Utilities  Edit  View  Other  Help
-----
                                Tables                                ROW 1 TO 13 OF 393
S
/                               Select Table
-                               Type in the selection criteria. Then press Enter to display.
-
-                               Component  . RACF Component  _____  +
*                               Name      . . . . . _____
                               Prefix    . . . . . _____
                               Type      . . . . . 2
                                         1. Table
                                         2. Lookup
                                         3. View
                                         *

F1=Help      F2=Split      F4=Prompt      F9=Swap      F12=Cancel

Command ==> _____
F1=Help      F2=Split      F3=Exit      F5=Updates      F6=PurCond      F7=Bkwd
F8=Fwd       F9=Swap      F10=Actions  F11=Display     F12=Cancel

```

Figure 55. Select Table window

10. Type the values as shown in Figure 55, and press Enter.
The Tables window is displayed (Figure 56), showing the component's lookup tables only.

```

Table  Maintenance  Utilities  Edit  View  Other  Help
-----
                                Tables                                ROW 1 TO 3 OF 3
Select one or more tables.  Then press Enter to Open table definition.

/  Tables                Prefix  Type
-  RACF_EVENT_CODE      DRL    TABLE
-  RACF_RES_OWNER       DRL    TABLE
/  RACF_USER_OWNER      DRL    TABLE
***** BOTTOM OF DATA *****

Objects of type Tables meeting the selection criteria are listed.
Command ==> _____
F1=Help      F2=Split      F3=Exit      F5=Updates      F6=PurCond      F7=Bkwd
F8=Fwd       F9=Swap      F10=Actions  F11=Display     F12=Cancel

```

Figure 56. Tables window - showing component's lookup tables

11. Select a table to edit, but do not press Enter.
12. Select an edit option from the Edit pull-down and press Enter.
If you have QMF installed, you can use the QMF table editor to edit tables wider than 255 characters. See "Editing the contents of a table" on page 235.
13. Press F3 (Exit) when you finish selecting and editing lookup tables.
Tivoli Decision Support for z/OS returns to the Administration window.

Installation of components should end with a return code RC=0. In the case where installation ends with an error or warning, and RC=4 or RC=8, you should inspect the job output to determine the source of the error. The following table shows some SQLCODEs which may issue a non-zero return code; this does not necessarily indicate a problem and can often be safely ignored. Errors other than these will often indicate a more serious problem with the installed , and re-installation will be necessary after the problems are rectified.

Message	Return Code	Explanation
SQLCODE=-204 name IS AN UNDEFINED NAME	RC=8	You can ignore this message and return code only if it is caused by an SQL ALTER statement that attempts to add a column to a table that has not yet been created.
SQLCODE=+562 A GRANT OF A PRIVILEGE WAS IGNORED BECAUSE THE GRANTEE ALREADY HAS THE PRIVILEGE FROM THE GRANTOR	RC=4	You can always ignore this message and return code.
SQLCODE=-601 THE NAME OF THE OBJECT TO BE CREATED IS IDENTICAL TO THE EXISTING NAME name OF THE OBJECT TYPE objecttype	RC=8	You can always ignore this message and return code.
SQLCODE=-612 column name IS A DUPLICATE COLUMN NAME	RC=8	You can always ignore this message and return code.

Test the component to verify its proper installation

1. Collect data from a log data set and review any messages, as described in “Using collect messages” on page 143.

Note: Depending on the component you installed, you might not be able to collect its log data in an online collect. Refer to “Collecting data from a log into DB2 tables” on page 217 for more information.

2. Display a table to ensure that it exists and that it contains the correct information as described in the book for the appropriate feature:

Feature name	Book name
AS/400 Performance	<i>AS/400 System Performance Feature Guide and Reference</i>
CICS Performance	<i>CICS Performance Feature Guide and Reference</i>
Distributed Systems Performance	<i>Distributed Systems Performance Feature Guide and Reference</i>
IMS Performance	<i>IMS Performance Feature Guide and Reference</i>
Network Performance	<i>Network Performance Feature Reference</i>
System Performance	<i>System Performance Feature Reference</i>

For Resource Accounting, see the *Resource Accounting for z/OS* book.

3. Display a report to ensure it is correctly installed.

Migration considerations - When you have finished installing the components you must reintroduce existing changes to component objects.

To ensure that the changes you have saved (in the procedure described in Chapter 6, “Migrating components from earlier releases of Tivoli Decision Support

Installing and uninstalling a component

for z/OS,” on page 85) can be introduced into the IBM-modified objects, perform the merge actions defined in “Migrating modified objects” on page 87.

Uninstalling a component

To uninstall a component:

1. From the Components window, select the component you want to uninstall. From the Component pull-down, select the Uninstall option.

If the component you selected contains subcomponents, the Component Parts window is displayed. Either select the parts to uninstall or press F12 to cancel.

A confirmation window is displayed.

2. Press Enter to confirm the uninstallation.

Tivoli Decision Support for z/OS deletes from its system tables any component definitions not used by other components. It also deletes all DB2 objects of the component or selected subcomponents, including any tables and tablespaces. The component remains in the list of components, but with its Status field cleared. If the component contains subcomponents, they remain in the list of subcomponents but with their Status field cleared.

Note: If a component (or subcomponent) including a common object is uninstalled, the common object is not dropped, unless it is the only installed component (or subcomponent) that includes the common object. When a component or subcomponent is uninstalled, all its data tables are dropped and their contents lost.

Working with a component definition

This section describes these tasks:

- Controlling objects that you have modified
- Viewing objects in a component
- Viewing or editing an object definition
- Adding an object to a component
- Deleting an object from a component
- Excluding an object from a component installation
- Including an object in a component installation
- Deleting a component
- Creating a component

Controlling objects that you have modified

The variable VERSION, together with the VERSION column in the system tables, is used to:

- Ensure that unchanged Tivoli Decision Support for z/OS objects are not replaced when a component is migrated
- Provide for the control of Tivoli Decision Support for z/OS objects that you have changed

The variable VERSION has the value IBM.*nnn*[APAR_number], where *nnn* is the version, release, and modification level (for example, IBM.181 is an object supplied with Tivoli Decision Support for z/OS version 1 release 8 modification level 1). The value of VERSION is set for all objects when the object is installed (see “How Tivoli Decision Support for z/OS controls object replacement” on page 72 for details).

If you change a Tivoli Decision Support for z/OS-supplied object, you *must* set the variable VERSION to something other than *IBM.nnn[APAR_number]*. During component installation, Tivoli Decision Support for z/OS can then recognize an object as having been modified by you. When you select the component you wish to install (from the Components window) and press F6=Install, the User Modified Objects window is *automatically* displayed, listing the Tivoli Decision Support for z/OS-supplied objects that you have later modified.

You can also obtain a list of the user-modified objects from the Components window, selecting the Show user objects option in the Component pull-down. You can now decide to:

- Lose your changes and use the new objects supplied by IBM:
 1. In the User Modified Objects window that is automatically displayed, *do not select* these objects.
 2. Tivoli Decision Support for z/OS then replaces your objects with the objects from the new Tivoli Decision Support for z/OS release or modification level.
 - Integrate your changes into the new Tivoli Decision Support for z/OS object:
 1. Change the VERSION variable for the object to something that *does not begin with IBM*.
 2. Place the definition member containing the changed object in your local library.
 3. Continue with the installation.
- Or:
1. Place your customized object definitions in your local user definition library and flag your changes according to the rules described in “Creating alter statements for user-modified objects.”
 2. From the User Modified Members window select the members for which you need to create the alter statements on the customer changes and press F4 (Alter).
Tivoli Decision Support for z/OS displays a confirmation window.
 3. From the confirmation window, press Enter to confirm that the alter statements must be built.
The alter statements are created and stored in the local user definition library.
 4. Continue with the installation.
 5. After the installation is finished, run the alter statements from Process TDS statements window, to modify the installed objects.
- Exclude the new object from the installation (that is, continue to use your own modified copy of the object):
 1. From the User Modified Objects window select the objects you wish to exclude and press F4 (Exclude).
Tivoli Decision Support for z/OS displays a Confirmation window.
 2. From the Confirmation window, press Enter to confirm that the object should be excluded from the installation.

Creating alter statements for user-modified objects

A processor that extracts user modifications applied to Tivoli Decision Support for z/OS objects is supplied inside the product. It is not a general purpose parsing for log collector definitions but it can help you when migrate user-modified objects to a new release or apply maintenance to user-modified objects.

Working with a component definition

When you modify Tivoli Decision Support for z/OS objects (UPDATE/RECORD/LOG/RECORDPROC definitions), you can extract your changes and apply them to the same objects after a new release or a maintenance fix is installed.

You can identify the user-modified objects from the Components window, selecting the Show user objects option in the Component pull-down, or from the User Modified Objects panel that is displayed when you reinstall a component. After identifying the objects for which you want to extract user changes, you have to copy their definitions into the local user definition library. The changes to be extracted from the customized members must be flagged with a certain tag, which is then provided as input to a processor internal to the product. The processor extracts all the rows flagged with this tag and builds the related ALTER statements necessary to apply the changes to the object currently installed in the Tivoli Decision Support for z/OS environment.

The processor should be run on each user-modified object definition before each component is reinstalled, in order to prepare the ALTER statements. You can then proceed with the migration of the component to the new release. When all the new objects are defined, you can run the ALTER statements to apply your own changes. The ALTER statements can be run from the option Other -> Process TDS for z/OS Statements.

The following parameters are provided as input to the processor:

- The type of the object contained in the input member (UPDATE, RECORD, LOG and RECORD PROCEDURES)
- The input member containing the definition with the flagged changes
- The output member containing the produced ALTER statements
- The tag that identifies the changes.

How to use modification flags

When you change an object, you must highlight the changes by adding a flag to the modified clauses. Depending on the changes you make, you have to follow different flagging rules:

- If the clause has been *changed*, you must add an **M** immediately after the flag, without any blank between the M and the flag itself (Example: **FLAGM**).
- If the clause has been *added*, you must add an **A** immediately after the flag, without any blank between the A character and the flag itself (Example: **FLAGA**).
- If the clause has been *deleted*, you must add a **D** immediately after the flag, without any blank between the D character and the flag itself the (Example: **FLAGD**)

Note: If you want to delete a clause, do not remove it from the definition, but comment and flag it with the D character.

When the processor finds a clause flagged with an **ADD** or **MODIFY** flag, it creates the alter statement with the new read clause. If it finds a deletion flag, it creates an alter statement with **NONE** or **DELETE** value. The alter with a **NONE** value deletes the related clause, when run.

This occurs for all the clauses except for **FIELDS** (in RECORD definition) and **LOGPROC** (in LOG definition). Because these clauses cannot be directly modified through an alter statement, if they are flagged with the **M** character, a **DELETE** and an **ADD** alter statements are built for them.

It is important to avoid using comments, keywords, and flags necessary to identify changes in definition clauses.

Update processor

For each update definition present in the input member, the processor extracts the name of the update and then parses each of the following clauses:

- WHERE
- DISTRIBUTE
- APPLY SCHEDULE
- LET
- GROUP BY
- SET
- MERGE

if present in the definition. The processor then searches the input flag inside any of these clauses; if it finds any flag, the processor creates the related alter statement.

If the changes affect **SET**, **LET**, or **GROUP BY** clauses, the processor writes the alter statements at identifier level so that, through the alter clause, you can change any single identifier in the clause itself. Therefore, each identifier contained in any of these three clauses must be flagged separately, so the processor can create an alter statement only for the flagged identifiers, without creating it for the whole clause. On the contrary, if the changes affect **WHERE**, **DISTRIBUTE**, **APPLY SCHEDULE**, or **MERGE** clauses, the processor cannot create an alter statement that impacts only on a portion of the clause, so it creates an alter statement that replaces the whole clause. This means that if you change any of these clauses, you must only add a flag that indicates whether the whole clause has been modified, added, or deleted. Finally, the **VERSION** column of the **DRLUPDATES** system table is updated whenever an alter statement is produced for an update definition. The following examples show how to flag modified update definitions.

Example 1:

```
DEFINE UPDATE MKTVACC_01D
VERSION 'USER01'
FROM VMACCT_01
--WHERE ACODATE <> ACOTIME          --FLAGD
e 22 TO VM_ACCOUNTING_D
LET
  (FLAG = ACOTIME+ACOVECT,
  FLAG = ACOTIME+ACOVECT,          --FLAGA
  FLAG = --FLAGA
  (AAAAA)) --FLAGA
GROUP BY
  (DATE      = ACODATE,
  USER_ID   = ACOUSER,
  ACCOUNT_NUMBER = ACONUM)
SET (CONNECT_TIME = SUM(ACOUNT),
  -- PROCESSOR_TIME = SUM (ACOTIME/1000), --FLAGD
  VECTOR_TIME = PERCENTILE(ACOTIME/100,ACOVECT,20)); --FLAGM
```

The alter statements will be:

```
ALTER UPDATE MKTVACC_01D WHERE NONE;
ALTER UPDATE MKTVACC_01D LET FLAG = ACOTIME+ACOVECT;
ALTER UPDATE MKTVACC_01D LET FLAG = (AAAAA);
ALTER UPDATE MKTVACC_01D SET PROCESSOR_TIME = NONE;
ALTER UPDATE MKTVACC_01D SET VECTOR_TIME = PERCENTILE(ACOTIME/100,ACOVECT,20) ;
```

Example 2:

Working with a component definition

```
DEFINE UPDATE MKTVACC_03D
VERSION 'USER01'
FROM VMACCT_01
WHERE ACODATE <> ACOTIME          --FLAGM
  TO VM_ACCOUNTING_D
LET
  (FLAG = ACOTIME+ACOVECT,
   MINNY = ACOTIME+ACOVECT,      --FLAGA
   FLAG = (AAAAA))              --FLAGA
GROUP BY
  (DATE = ACODATE,
   USER_ID = ACOUSER,
   ACCOUNT_NUMBER = ACONUM)
--MERGE
-- (INTERVAL_TYPE = CASE SMF30STP
--                   WHEN 2 THEN '=== '
--                   WHEN 3 THEN '==! '
--                   END,
--START_TIME = TIMESTAMP(SMF30IDT,SMF30IST),
--END_TIME = TIMESTAMP(SMF30DTE,SMF30TME),
--QUIET_INTERVAL_SEC = 5)        --FLAGD
;
```

The alter statements will be:

```
ALTER UPDATE MKTVACC_03D WHERE ACODATE <> ACOTIME;
ALTER UPDATE MKTVACC_03D LET MINNY = ACOTIME+ACOVECT;
ALTER UPDATE MKTVACC_03D LET FLAG = (AAAAA);
ALTER UPDATE MKTVACC_03D MERGE NONE;
```

Example 3:

```
DEFINE UPDATE RAFJOB_SMF30_E
VERSION 'IBM.130'
FROM SMF_030
SECTION EXCP
WHERE SMF30WID = 'JES2' OR SMF30WID = 'JES3' --FLAGA
  TO &PREFIX.RAFJOBLOG
DISTRIBUTE CPU_TIME
  BY 3600
  START TIMESTAMP(STA_DTE,STA,TME)
  END TIMESTAMP(END_DTE,END_TME)
  TIMESTAMP CUR_TME
  INTERVAL CUR_DUR                      --FLAGA
GROUP BY
  (J_TIMESTAMP = TIMESTAMP(SMF30RSD,SMF30RST),
   J_JOBNAME = SMF30JBN)                --FLAGM
SET (CONNECT_TIME = SUM(ACOUNT),
--   PROCESSOR_TIME = SUM (ACOTIME/1000), --FLAGD
);
```

The alter statements will be:

```
ALTER UPDATE RAFJOB_SMF30_E WHERE SMF30WID = 'JES2' OR SMF30WID = 'JES3'
ALTER UPDATE RAFJOB_SMF30_E DISTRIBUTE CPU_TIME BY 3600 START TIMESTAMP
(STA_DTE,STA,TME) END TIMESTAMP(END_DTE,END_TME) TIMESTAMP CUR_TME INTERVAL CUR_DUR;
ALTER UPDATE RAFJOB_SMF30_E GROUP BY J_JOBNAME = SMF30JBN;
ALTER UPDATE RAFJOB_SMF30_E SET PROCESSOR_TIME = NONE;
```

Example 4:

```
DEFINE UPDATE RAFJOB_SMF30_E
VERSION 'IBM.130'
FROM SMF_030
SECTION EXCP
-- WHERE (SMF30WID = 'JES2' OR SMF30WID = 'JES3') AND SMF30TYP = 5 AND
--       SMF30DEV > '00' --FLAGD
  TO &PREFIX.RAFJOBLOG
```



```

--APPLY SCHEDULE 'STANDARD'
-- TO TYPE, INT_START, INT_END
-- STATUS SCHED_                                --FLAGD
LET (
-- SDTE                                         = (CASE WHEN
--                                         VALUE (DATE(SMAPISTD),
--                                         DATE('1900-01-01')) <> DATE('1900-01-01')
--                                         THEN DATE(SMAPISTD)
--                                         END),                                         --FLAGD
-- SDTF                                         = (CASE WHEN
--                                         VALUE (DATE(SMAPISTD),
--                                         DATE('2000-01-01')) <> DATE('2000-01-01')
--                                         THEN DATE(SMAPISTD)
--                                         END))                                         --FLAGA
GROUP BY
(J_TIMESTAMP = TIMESTAMP(SMF30RSD,SMF30RST),
J_JOBNAME = SMF30JBN)
SET (
--J_NGRAFBKLS = SUM(CASE WHEN SMF30DEV = '10'
-- THEN SMF30BLK/FLOAT(1)
-- ELSE FLOAT(0)
-- END),                                         --FLAGD
J_NOCRBLKS = SUM(CASE WHEN SMF30DEV = '04'
THEN SMF30BLK/FLOAT(1)
ELSE FLOAT(0)
END),
J_NMSSBLKS = SUM(CASE WHEN SMF30DEV = '42' --FLAGA
THEN SMF30BLK/FLOAT(1)
ELSE FLOAT(0)
END),
--J_NOTHRBLKS = SUM(CASE WHEN SMF30DEV <> '20'
-- AND SMF30DEV <> '80'
-- THEN SMF30BLK/FLOAT(1)
-- ELSE FLOAT(0)
-- END)
);                                         --FLAGD

```

The alter statements will be:

```

ALTER UPDATE RAFJOB_SMF30_E WHERE NONE;
ALTER UPDATE RAFJOB_SMF30_E APPLY SCHEDULE NONE;
ALTER UPDATE RAFJOB_SMF30_E LET SDTE = NONE;
ALTER UPDATE RAFJOB_SMF30_E LET SDTF = (CASE WHEN VALUE (DATE(SMAPISTD),
DATE('2000-01-01')) <> DATE('2000-01-01') THEN DATE(SMAPISTD) END);
ALTER UPDATE RAFJOB_SMF30_E SET J_NGRAFBKLS = NONE;
ALTER UPDATE RAFJOB_SMF30_E SET J_NMSSBLKS = SUM(CASE WHEN SMF30DEV='42'
THEN SMF30BLK/FLOAT(1) ELSE FLOAT(0) END);
ALTER UPDATE RAFJOB_SMF30_E SET J_NOTHRBLKS = NONE;

```

Notes:

1. The ; (semicolon) character indicates the end of a define update statement. It is recommended not to put any flag in the row following the semicolon, otherwise the flag will be ignored. The semicolon must always be at the end of the update statement to close it, even after any possible commented clause.
2. The **FROM**, **SECTION**, and **TO** clauses are not processed because it is recommended not to change them. If one of these clauses is changed, it is recommended to create a new update definition.
3. You cannot insert more than one comment for each flagged row. For example:
Incorrect: -- ANY COMMENT --FLAGA idd:break>**Correct:** -- ANY COMMENT FLAGA

Record processor

For each record definition present in the input member, the processor extracts the name of the record and then parses each of the following clauses:

Working with a component definition

- IN LOG
- BUILT BY
- IDENTIFIED BY
- FIELDS
- SECTION
 - IN SECTION
 - PRESENT IF
 - OFFSET
 - LENGTH
 - NUMBER
 - REPEATED

if present in the definition. The processor then searches for an input flag inside any of these clauses and, if it finds any flag, the processor creates the related alter statement.

The clause **FIELDS** can be flagged with the **DELETE**, **ADD**, or **MODIFY** flag. For this clause, the processor writes the alter statements at single field level, so that, through the alter clause, you can change any single field in the clause itself. Therefore, each field contained in this clause must be flagged separately, so the processor can create an alter statement only for the flagged fields, without creating it for the whole clause. Each field is identified by a comma, therefore you have to flag the row where there is the comma that identifies the field to be changed. If you insert an **ADD** flag, the processor creates the following alter statement:

```
ALTER RECORD record-name ADD FIELDS(field-name) IN SECTION section-name
```

If you insert a **DELETE** flag, the processor creates the following alter statement:

```
ALTER RECORD record-name DELETE FIELD field-name
```

Because it is not possible to modify a field through an alter statement, if you insert a **MODIFY** flag, the processor will create these alter statements:

```
ALTER RECORD record-name DELETE FIELD field-name  
ALTER RECORD record-name ADD FIELDS(field-name) IN SECTION section-name
```

If the changes affect any of the other clauses, the processor cannot create an alter statement that impacts only a portion of the clause, so it creates an alter statement that replaces the whole clause. Therefore, if one of these clauses is flagged, the processor builds an alter statement on the entire clause. This means that if you change any of these clauses, you must add a flag at the end of it to indicate whether the whole clause has been modified, added, or deleted.

The **IN LOG** clause can be flagged only with **ADD** and **MODIFY** flags. You cannot use the **DELETE** flag with this clause. The **LENGTH** clause can only be flagged with **DELETE** and **MODIFY** flags. You cannot use the **ADD** flag with this clause.

BUILT BY, **IDENTIFIED BY**, **IN SECTION**, **PRESENT IF**, **OFFSET**, **LENGTH**, **NUMBER**, **REPEATED** clauses can be flagged with **DELETE**, **ADD** and **MODIFY** flags. When you insert **ADD**, or **MODIFY** flags, the processor creates an alter statement that adds or replaces the whole clause. When you insert a **DELETE** flag, the processor creates an alter statement with **NONE** value that deletes the related clause, when run.

The **SECTION** clause can be flagged only with **ADD** or **DELETE** flags. You cannot use the **MODIFY** flag with this clause. When you insert an **ADD** flag, the processor creates the following alter statement:

```
ALTER RECORD record-name ADD SECTION section-name IN SECTION section-name ...
```

Even if the **SECTION** clause has some sub-clauses (such as in-section, present-if...) you must flag only the row containing the **SECTION** keyword. All the sub-parameters will be included in the alter section statement. The section clause ends when another **SECTION** parameter is present. Considering the following example:

```
SECTION V4_PS_FIELDS          --FLAGA
  IN SECTION PRODUCT
  PRESENT IF SMFMNRVN >= '0410'
  OFFSET SMFMNAPS + 40
  FIELDS  ....
```

The alter statement will be:

```
ALTER RECORD PROVAPARSER ADD SECTION V4_PS_FIELDS
IN SECTION PRODUCT
PRESENT IF SMFMNRVN >= '0410' OFFSET SMFMNAPS + 40;
```

On the contrary, if you want to change, add, or delete just one sub-parameter, you do not have to flag the whole clause, but only the sub-clause, as shown in the following example:

```
SECTION V4_PS_FIELDS
  IN SECTION PRODUCT
  PRESENT IF SMFMNRVN >= '0410'          --FLAGA
  OFFSET SMFMNAPS + 40
  FIELDS  ....
```

The alter statements will be:

```
ALTER RECORD PROVAPARSER ALTER SECTION V4_PS_FIELDS PRESENT IF SMFMNRVN >= '0410';
```

A **DELETE** flag will cause the processor to generate the following statement:

```
ALTER RECORD record-name DELETE SECTION section-name
```

Moreover, if the processor produces an alter statement for a record definition, it also updates the **VERSION** column of the **DRLRECORDS** system table.

The following examples show how to flag modified record definitions:

Example 1:

```
DEFINE RECORD PROVAPARSER
  VERSION 'IBM.120'
  IN LOG SMF                      --FLAGM
  BUILT BY DRL2CICS                --FLAGD
  IDENTIFIED BY SMFMNRTY = 110
    AND SMFMNSTY = 1
    AND SMFMNCL <> 4              --FLAGD
  -----
  ---      Start of SMF header
  -----
  FIELDS
  (SMFMNLEN LENGTH 2 BINARY,
-- SMFMNSEG LENGTH 2 BINARY,      --FLAGD
  SMFMNFLG LENGTH 1 BIT,
  SMFMNRTY LENGTH 1 BINARY,
  SMFMNTME TIME(1/100S),
  SMFMNDTE DATE(0CYDDDF),
```

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```
SMFMNSID LENGTH 4 CHAR,
SMFMNSSI LENGTH 4 CHAR,
SMFMNSTY LENGTH 2 BINARY,
SMFMNTRN LENGTH 2 BINARY,
*          LENGTH 2 BINARY,
SMFMNAPS LENGTH 4 BINARY,
SMFMNLPS LENGTH 2 BINARY,
SMFMNAPS LENGTH 2 BINARY,
SMFMNASS LENGTH 4 BINARY,
SMFMNASL LENGTH 2 BINARY,
SMFMNASN LENGTH 2 BINARY,

-----
---      Start of SMF product sect
-----
--SECTION PRODUCT          FLAGD
--  OFFSET SMFMNAPS
--  LENGTH SMFMNLPS
--  NUMBER SMFMNAPS
--  FIELDS
    SMFMNRVN LENGTH 2 HEX,          --FLAGA
    SMFMNPRN LENGTH 8 CHAR,         --FLAGA
    SMFMNSPN LENGTH 8 CHAR,         --FLAGA
    SMFMNMFL LENGTH 2 HEX,          --FLAGA
    *          LENGTH 2 BINARY,     --FLAGA
    SMFMNCL  LENGTH 2 BINARY,       --FLAGA
    SMFMNDCA LENGTH 4 BINARY,       --FLAGA
    SMFMNDCL LENGTH 2 BINARY,       --FLAGA
    SMFMNDCN LENGTH 2 BINARY,       --FLAGA
    SMFMNDRA LENGTH 4 BINARY,       --FLAGA
    SMFMNDRL LENGTH 2 BINARY,       --FLAGA
    SMFMNDRN LENGTH 2 BINARY)      --FLAGA
```

Note: If you want to remove a section and add its fields to the previous section, or directly to the record, you have to add a DELETE flag to the section definition, and an ADD flag to each of the fields.

The alter statements will be:

```
ALTER RECORD PROVAPARSER IN LOG SMF;
--
  ALTER RECORD PROVAPARSER BUILT BY NONE;
--
  ALTER RECORD PROVAPARSER IDENTIFIED BY NONE;
--
  ALTER RECORD PROVAPARSER DELETE SECTION PRODUCT;
--
  ALTER RECORD PROVAPARSER ADD SECTION V4_PS_FIELDS
  IN SECTION PRODUCT PRESENT IF SMFMNRVN >=
  '0410' OFFSET SMFMNAPS + 40;
--
  ALTER RECORD PROVAPARSER ADD FIELDS ( * LENGTH
  20 CHAR) IN SECTION V4_PS_FIELDS;
--
  ALTER RECORD PROVAPARSER ADD FIELDS ( SMFMNTAD
  LENGTH 4 BINARY UNSIGNED) IN SECTION V4_PS_FIELDS;
--
  ALTER RECORD PROVAPARSER ADD FIELDS ( SMFMNLPSO
  LENGTH 8 BINARY) IN SECTION V4_PS_FIELDS;
--
  ALTER RECORD PROVAPARSER ADD FIELDS ( SMFMNDTO
  LENGTH 8 BINARY UNSIGNED) IN SECTION V4_PS_FIELDS;
--
  ALTER RECORD PROVAPARSER ADD FIELDS ( * LENGTH
  2 BINARY) IN SECTION V4_PS_FIELDS;
--
  ALTER RECORD PROVAPARSER ADD FIELDS ( SMFMNJB
  LENGTH 8 CHAR) IN SECTION V4_PS_FIELDS;
```

```
--
ALTER RECORD PROVAPARSER ADD FIELDS ( SMFMNRS
  DATE(0CYDDDF)) IN SECTION V4_PS_FIELDS;
--
ALTER RECORD PROVAPARSER ADD FIELDS ( SMFMRSR
  TIME(1/100S)) IN SECTION V4_PS_FIELDS;
--
ALTER RECORD PROVAPARSER ADD FIELDS ( SMFMNUIF
  LENGTH 8 CHAR) IN SECTION V4_PS_FIELDS;
--
ALTER RECORD PROVAPARSER ADD FIELDS ( SMFMNPDN
  LENGTH 8 CHAR) IN SECTION V4_PS_FIELDS;
--
ALTER RECORD PROVAPARSER SECTION FIELD_CONNECTOR
  LENGTH SMFMNDCL;
--
ALTER RECORD PROVAPARSER SECTION FIELD_CONNECTOR
  NUMBER NONE;
--
ALTER RECORD PROVAPARSER SECTION FIELD_CONNECTOR
  REPEATED;
--
ALTER RECORD PROVAPARSER SECTION DICTIONARY_DATA
  LENGTH SMFMNDRL;
--
ALTER RECORD PROVAPARSER SECTION DICTIONARY_DATA
  NONREPEATED;
--
ALTER RECORD PROVAPARSER ADD FIELDS ( CMODIDNT
  LENGTH 3 CHAR) IN SECTION DICTIONARY_DATA;
--
```

Example 2:

```
DEFINE RECORD SMF_101
  VERSION 'FLAG'                                -- FLAG
  IN LOG SMF
  IDENTIFIED BY SM101RTY = 101 AND SM101STF = 0
  FIELDS
    (SM101LEN LENGTH 2 BINARY,
     QWA01PSN LENGTH 2 BINARY)
-----
---      Start of Product Section
-----
--      Start of Instrumentation Data Section
-----
SECTION INSTRUMENTATION
  OFFSET QWA01R10
  LENGTH QWA01R1L
  NUMBER QWA01R1N
  FIELDS
    (QWACRINV OFFSET 48 LENGTH 4 BINARY,  -- Normal: --FLAGA
     -- Normal:
     -- 4 = Reads request
     -- 8 = New user
     -- 12 = Deallocation
     -- Normal (written at deallocation)
     -- 16 = Application pgm terminated
     -- Abnormal (written at deallocatio
     -- 20 = Application pgm abend
     -- 24 = End of memory
     -- 28 = Resolve indoubt
     -- 32 = Stop force etc.
     -- Normal (work unit in doubt):
     -- 40 = Application pgm terminated
     -- Abnormal (work unit in doubt):
```

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```

-- 44 = Application pgm abend
-- 48 = End of memory
-- 52 = Resolve indoubt
-- 56 = Stop force etc.
QWACNID OFFSET 52 LENGTH 16 CHAR,      --FLAGA
QWACARNS OFFSET 168 LENGTH 4 BINARY,   --FLAGA
QWACFLGS OFFSET 224 LENGTH 2 BIT,      --FLAGA
-- QWACCLS2 X'0001' There is non      PQ45496
-- zero accounting class 2 data.      PQ45496
-- QWACCLS3 X'0002' There is non      PQ45496
-- zero accounting class 3 data.      PQ45496
-- QWACPARR X'0040' There is          PQ45496
-- rollup data for parallel child     PQ45496
-- tasks.                              PQ45496
QWACRLSV OFFSET 428 LENGTH 4 BINARY,   --FLAGA
-- Number of release svpt requests
QWACRBSV OFFSET 432 LENGTH 4 BINARY,   --FLAGA
-- Number of rollback to svpt rqsts
*      OFFSET 436 LENGTH 4 BINARY,     --FLAGA
-- Not used
QWACAWTK OFFSET 440 LENGTH 8 BINARY,   --FLAGA
-- Accumulated wait time due to global contention for
-- child L-lock
QWACAWTM OFFSET 448 LENGTH 8 BINARY,   --FLAGA
-- Accumulated wait time due to global contention for
-- other L-lock
QWACAWTN OFFSET 456 LENGTH 8 BINARY,   --FLAGA
-- Accumulated wait time due to global contention for
-- pageset/partition P-locks
QWACAWTO OFFSET 464 LENGTH 8 BINARY,   --FLAGA
-- Accumulated wait time due to global contention for
-- page P-locks
QWACAWTQ OFFSET 472 LENGTH 8 BINARY,   --FLAGA
-- Accumulated wait time due to global contention for
-- other P-lock
QWACARNO OFFSET 492 LENGTH 4 BINARY,   --FLAGA
      QWACARNO OFFSET 492 LENGTH 4 BINARY, --FLAGA
      -- Number of wait trace events processed for waits for global
      -- contention for page P-locks
-- QWACARNQ OFFSET 496 LENGTH 4 BINARY --FLAGD
)

```

Note: The last field must be deleted, it has been flagged with **FLAGD** and the parenthesis has been moved to the following row to avoid to comment it. The alter statements will be:

```

ALTER RECORD SMF_101 ADD FIELDS ( QWACRINV
  OFFSET 48 LENGTH 4 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACNID
  OFFSET 52 LENGTH 16 CHAR) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACARNS
  OFFSET 168 LENGTH 4 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACFLGS
  OFFSET 224 LENGTH 2 BIT) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACRLSV
  OFFSET 428 LENGTH 4 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACRBSV
  OFFSET 432 LENGTH 4 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( * OFFSET
  436 LENGTH 4 BINARY) IN SECTION INSTRUMENTATION;

```

```
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACAWTK
OFFSET 440 LENGTH 8 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACAWTM
OFFSET 448 LENGTH 8 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACAWTN
OFFSET 456 LENGTH 8 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACAWTO
OFFSET 464 LENGTH 8 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACAWTQ
OFFSET 472 LENGTH 8 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 ADD FIELDS ( QWACARNO
OFFSET 492 LENGTH 4 BINARY) IN SECTION INSTRUMENTATION;
--
ALTER RECORD SMF_101 DELETE FIELD QWACARNQ;
--
```

Notes:

1. The ; (semicolon) character indicates the end of a define record statement. It is recommended not to put any flag in the row following the semicolon, otherwise the flag will be ignored. The semicolon must always be at the end of the record statement to close it, even after any possible commented clause.
2. The) (parenthesis) indicates the end of the **FIELDS** parameter. If you comment it, the end of the fields parameter is lost.
3. To flag a field, you must add the flag in the last row of the field, that is, where the comma is located. A flag that is not properly located, will be ignored.

The following example shows a *correct* flag location:

```
FIELDS
(QWACRINV OFFSET 48 LENGTH 4 BINARY,  -- Normal: FLAGA
-- Normal:
-- 4 = Reads request
-- 8 = New user
-- 12 = Deallocation
-- Normal (written at deallocation)
-- 16 = Application pgm terminated
-- Abnormal (written at deallocatio
-- 20 = Application pgm abend
-- 24 = End of memory
-- 28 = Resolve indoubt
-- 32 = Stop force etc.
-- Normal (work unit in doubt):
-- 40 = Application pgm terminated
-- Abnormal (work unit in doubt):
-- 44 = Application pgm abend
-- 48 = End of memory
-- 52 = Resolve indoubt
-- 56 = Stop force etc.
```

The following example shows an *incorrect* flag location:

```
FIELDS
(QWACRINV OFFSET 48 LENGTH 4 BINARY,  -- Normal:
-- Normal:
-- 4 = Reads request
-- 8 = New user
-- 12 = Deallocation
-- Normal (written at deallocation)
-- 16 = Application pgm terminated
-- Abnormal (written at deallocatio
-- 20 = Application pgm abend
```

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```
-- 24 = End of memory
-- 28 = Resolve indoubt
-- 32 = Stop force etc.
-- Normal (work unit in doubt):
-- 40 = Application pgm terminated
-- Abnormal (work unit in doubt):
-- 44 = Application pgm abend
-- 48 = End of memory
-- 52 = Resolve indoubt
-- 56 = Stop force etc.      --FLAGA
```

4. The **SECTION** sub-clauses (IN SECTION, PRESENT IF, OFFSET, LENGTH, NUMBER and REPEATED) must be written each on a different row.

The following is an example of a correct sub-clause position:

```
SECTION INSTRUMENTATION
  OFFSET QWA01R10
  LENGTH QWA01R1L
  NUMBER QWA01R1N
```

The following is an example of an incorrect sub-clause position:

```
SECTION INSTRUMENTATION
  OFFSET QWA01R10   LENGTH QWA01R1L NUMBER QWA01R1N
```

5. If you want to add a new section, you have to flag only the row that contains the SECTION keyword. The sub-parameters and fields do not have to be flagged.
6. The processor does not check whether the flagged changes are logically correct or whether their application creates syntax errors in the whole definition. This is checked by the log collector when running the alter statements. Therefore, you have to be careful when you remove fields or sections that are referenced by other sections in the record. If there are errors, the processor will build the alter statement anyway, but you will get errors when you run the alter statements produced.
7. The flagged fields must be coded in one row, and the flag must be in the same row. Other comments can follow in the following rows.

The following is an example of correct coding:

```
FIELDS (
  IMSLOGSQ  LENGTH 4 BINARY UNSIGNED,      --FLAGM
  DRLLGOSQ  LENGTH 4 BINARY UNSIGNED      -- DRL2CSQL generated zero's
);
```

The following is an example of wrong coding:

```
FIELDS (
  IMSLOGSQ  LENGTH 4 BINARY
  DRLLGOSQ  LENGTH 4 BINARY UNSIGNED      UNSIGNED,      --FLAGM
  DRLLGOSQ  LENGTH 4 BINARY UNSIGNED      -- DRL2CSQL generated zero's
);
```

The following is an example of wrong coding:

```
FIELDS (
  IMSLOGSQ  LENGTH 4 BINARY  UNSIGNED,
  DRLLGOSQ  LENGTH 4 BINARY UNSIGNED      -- DRL2CSQL generated zero's      --FLAGM
);
```

Log processor

For each log definition present in the input member, the processor extracts the name of the log and then parses each of the following clauses:

- HEADER
- TIMESTAMP
- FIRST RECORD

- LAST RECORD
- LOGPROC

if present in the definition. The processor then searches for an input flag inside any of these clauses; if it finds any flag, the processor creates the related alter statement.

If the changes affect any of the **LOG** clauses, the processor creates an alter statement that replaces the whole clause. Therefore, if one of these clauses is flagged, the processor builds an alter statement on the entire clause. This means that if you change any of these clauses, you must add a flag at the end of it to indicate whether the whole clause has been modified, added, or deleted.

All the **LOG** clauses can be flagged with **DELETE**, **ADD**, and **MODIFY** flags. The alter statement enables you to add, delete, or replace the whole clause.

For example, if you insert an **ADD** flag in the **HEADER** clause, the processor creates the following alter statement:

```
ALTER LOG log-name HEADER (field,...);
```

If you insert a **DELETE** flag in the **HEADER** clause, the processor creates the following alter statement:

```
ALTER LOG log-name HEADER NONE;
```

Moreover, if the processor produces an alter statement for a log definition, it also updates the **VERSION** column of the **DRLLOGS** system table.

The following examples show how to flag modified log definitions:

```
DEFINE LOG SAMPLE VERSION 'IBM.171'
  HEADER (
    S01TYPE OFFSET 4 LENGTH 2 CHAR,
    S01DATE OFFSET 7 DATE(MMDDYY),
    S01TIME OFFSET 14 TIME(HHMMSS)
  )
  TIMESTAMP TIMESTAMP(S01DATE, S01TIME)      --FLAGM
  FIRST RECORD S01TYPE = '2'                  --FLAGA
  LAST RECORD S01TYPE = '3'                   --FLAGD
  LOGPROC SAMPRECP PARM 'JES2'                --FLAGM
;

COMMENT ON LOG SAMPLE IS 'Sample log definition';
```

The alter statements will be:

```
ALTER LOG SAMPLE HEADER (
  S01TYPE OFFSET 4 LENGTH 2 CHAR,
  S01DATE OFFSET 7 DATE(MMDDYY),
  S01TIME OFFSET 14 TIME(HHMMSS)
);
--
ALTER LOG SAMPLE TIMESTAMP TIMESTAMP(S01DATE,
S01TIME);
--
ALTER LOG SAMPLE FIRST RECORD S01TYPE = '2';
--
ALTER LOG SAMPLE LAST RECORD NONE;
--
ALTER LOG SAMPLE LOGPROC NONE;
--
ALTER LOG SAMPLE LOGPROC SAMPRECP PARM 'JES2';
--
```

Working with a component definition

Note: The ; (semicolon) character indicates the end of a define log statement. It is recommended not to put any flag in the row following the semicolon, otherwise the flag will be ignored. The semicolon must always be at the end of the log statement to close it, even after any possible commented clause.

Record procedure processor

For each procedure definition present in the input member the processor extracts the name of the record procedure and then parses each of the following clauses:

- FOR
- LANGUAGE
- PARM

if present in the definition. The processor then searches for an input flag inside any of these clauses; if it finds any flag, the processor creates the related alter statement.

If the changes affect any of the **RECORDPROC** clauses, the processor creates an alter statement that replaces the whole clause. Therefore, if one of these clauses is flagged, the processor builds an alter statement on the entire clause. This means that if you change any of these clauses, you must add a flag at the end of it to indicate whether the whole clause has been modified, added or deleted.

As for **RECORDPROC** statements, **FOR** and **LANGUAGE** clauses can be flagged with **ADD** and **MODIFY** flags. Only **PARM** clauses can be flagged also with a **DELETE** flag.

Moreover, if the processor produces an alter statement for a record procedure definition, it also updates the **VERSION** column of the **DRLRECORDPROCS** system table.

The following examples show how to flag modified Recordproc definitions:

```
DEFINE RECORDPROC SAMPROC
  VERSION 'IBM.171'
  FOR SAMPLE_01, SAMPLE_02 --FLAGM
  LANGUAGE C                --FLAGM
  PARM &FLAG                --FLAGD      ;
```

The alter statements will be:

```
ALTER RECORDPROC SAMPROC FOR SAMPLE_01,
  SAMPLE_02;
--
ALTER RECORDPROC SAMPROC LANGUAGE C;
--
ALTER RECORDPROC SAMPROC PARM NONE;
--
```

Note: The ; (semicolon) character indicates the end of a define recordproc statement. It is recommended not to put any flag in the row following the semicolon, otherwise the flag will be ignored. The semicolon must always be at the end of the recordproc statement to close it, even after any possible commented clause.

How to create customized alter statements

The input member, where the customized definitions are stored, is read from the local user definition library. You have to create this library during customization and to insert its name in the user.DRLFPROF as USERDEFS. All the user-defined definitions must be saved in this library, and the process output is stored in this

library as well. The name of the local user definition library is extracted from the ISPF profile filled in when Tivoli Decision Support for z/OS starts.

To create a customized alter statement:

1. From the Components window, select the component you want to install and press Enter.

```

Component Space Other Help
-----
                                Components                                ROW 24 TO 36 OF 42

Select one or more components. Then press Enter to Open component.

/  Components                                Status    Date
-  Network NCP Utilization Component
-  Network NEO Component
-  Network NPM Internal Utilization Component
-  Network NPM Transit Time Component
-  Network NTRI Component
-  Network NV/SM Internal Utilization Component
-  Network Problem Component
-  Network PU Utilization Component
-  Network RTM Response Time Component
-  Network Service Component
-  Network Session Failure Component
-  Network X25 Component
/  RACF Component

Command ==>
F1=Help    F2=Split    F3=Exit    F5=New    F6=Install  F7=Bkwd
F8=Fwd     F9=Swap     F10=Actions F12=Cancel
    
```

Figure 57. Components window

All the objects contained in the selected component and modified by the user are listed in the User Modified Objects window.

2. From the User Modified Objects window, select the objects that you do not want to upgrade to the new release and press F4 to exclude them.

```

Component Space Other Help
-----
                SAMPLE User Modified Objects                ROW 1 TO 7 OF 7

This list consists of objects modified by the user. Select objects
that should be excluded from the installation and press F4. Objects
with Exclude = Yes will not be installed.

Press Enter to continue the installation.

/  Object Name      Type      Member      Version      Exclude
-  SAMPLE          LOG      DRLLSAMP    FLAG         No
-  SAMPLE_01       RECORD   DRLLSAMP    FLAG         No
-  SAMPLE_H_M      UPDATE   DRLLSAMP    FLAG         No
-  SAMPLE_01_H     UPDATE   DRLLSAMP    FLAG         No
-  SAMPLE01        REPORT   DRLLSAMP    FLAG         Yes
-  SAMPLE02        REPORT   DRLLSAMP    FLAG         No
-  SAMPLE03        REPORT   DRLLSAMP    FLAG         No
*****Bottom of data*****
Command ==>
F1=Help    F2=Split    F4=Exclude  F7=Bkwd     F8=Fwd     F9=Swap
F12=Cancel
    
```

Figure 58. User Modified Members window

3. Press Enter, the following window is displayed:

Working with a component definition

```

Component Space Other Help
-----
User Modified Members          ROW 1 TO 3 OF 3

This list consists of members modified by the user. Select members
for which you want to create the alter statement and then press F4.
Alter statements will be built for members with Alter = Yes. The input
member must be present in the local definition library. You must
specify the flag that identifies user changes and the name of the output member.

Press Enter to write the alter statements in the local definition
library and to continue the installation.
/  Type          Input Member          Output Member          Version          Flag          Alter
-  LOG           DRLLSAMP          ALTSAMP              FLAG            FLAG            No
-  RECORD        DRLLSAMP          ALTSAMP              FLAG            FLAG            No
-  UPDATE        DRLLSAMP          ALTSAMP              FLAG            FLAG            No
*****
Command ==>
F1=Help      F2=Split      F4=Alter      F7=Bkwd      F8=Fwd      F9=Swap
F12=Cancel

```

Figure 59. User Modified Members window

This window displays all the LOG, RECORD, UPDATE and RECPROC that are user modified or modified by an apar.

From this window you can change the default values under Output Member and Flag.

Note: Members that have the same names are overwritten, so it is important to set different names for different output members.

4. Select the objects for which you want to extract your modifications, change the Flag and Output Member, if necessary, and press F4 to confirm your choice.

A confirmation window is displayed, press Enter to confirm, and the field Alter changes to Yes.

5. Press Enter, to continue creating the alter statements, and proceed with the installation.

Notes:

1. If you create alter statements for changes identified by different tags, you have to run the processor one time for each tag, and you must specify different output members. You must run the produced alter statements in the correct sequence, according to pre-requisites, if any. The VERSION field is updated by the update processor, so the flag of the object version field is supplied during the last run of the processor.
2. If the changes in record and update definitions are reflected in tables, you must change the table definitions manually. The processor does not process table and report definitions automatically.

Summary of object change flags

The following tables summarize what changes are enabled, and how to indicate them in each object clause.

Global The whole clause will be deleted/replaced/added. The inserted flag refers to the entire clause. If only a portion of the clause has been changed, you have to identify the whole clause with an **M** flag.

Field The single field is deleted/replaced/added. The flag must be at field level.

Table 12. Update process

CLAUSE	Delete	Modify	Add	Flag	Recommendations
WHERE	Y	Y	Y	Global	
DISTRIBUTE	Y	Y	Y	Global	
APPLY SCHEDULE	Y	Y	Y	Global	
LET	Y	Y	Y	Field	
GROUP BY	Y	Y	Y	Field	
SET	Y	Y	Y	Field	
MERGE	Y	Y	Y	Global	

Table 13. Record process

CLAUSE	Delete	Modify	Add	Flag	Recommendations
IN LOG	N	Y	Y	Global	
BUILT BY	Y	Y	Y	Global	
IDENTIFIED BY	Y	Y	Y	Global	
FIELDS	Y	Y	Y	Field	<ul style="list-style-type: none"> • Field flags must be placed in the last row, that is where the comma is. If the flag is not properly located, it is ignored. • An M flag is interpreted by the processor as both a DELETE and ADD alter statement. • The) (parenthesis) indicates the end of the FIELDS parameter. It must not be commented, otherwise the end of the field is lost.
SECTION	Y	N	Y	Global	To add or delete an entire section clause, you need to flag only the row that contains the SECTION keyword. The entire clause will be processed with all its sub-clauses. The clause end is indicated by the next FIELDS or SECTION parameter. If, instead, you want to change just one section sub-parameter, you need to flag only the clause itself.
IN SECTION	Y	Y	Y	Global	
PRESENT IF	Y	Y	Y	Global	
OFFSET	Y	Y	Y	Global	
LENGTH	Y	Y	N	Global	
NUMBER	Y	Y	Y	Global	
REPEATED	Y	Y	Y	Global	

Working with a component definition

Table 14. Log process

CLAUSE	Delete	Modify	Add	Flag	Recommendations
HEADER	Y	Y	Y	Global	
TIMESTAMP	Y	Y	Y	Global	
FIRST RECORD	Y	Y	Y	Global	
LAST RECORD	Y	Y	Y	Global	
LOGPROC	Y	Y	Y	Global	It is not possible to access LOGPROC single subparameters. The LOGPROC clause is considered as a whole clause, with all its subparameters. When it is identified by an M flag, both a delete and add alter statements are built.

Table 15. Record Procedure process

CLAUSE	Delete	Modify	Add	Flag	Recommendations
FOR	N	Y	Y	Global	
LANGUAGE	N	Y	Y	Global	
PARM	Y	Y	Y	Global	

Listing the modified objects

To obtain a list of the objects you have modified, follow these steps:

1. From the Components window, select a component.
2. From the Component pull-down, select the Show user objects option.

All the objects you have modified, are listed in the displayed window. The version field indicates the level currently installed in the Tivoli Decision Support for z/OS environment.

Viewing objects in a component

You can use the administration dialog to view a list of objects in a component. To view objects in a component:

1. From the Components window, select the component, and press Enter.

The Component window is displayed (Figure 60 on page 209) for the component. All Tivoli Decision Support for z/OS objects in the component are listed.

```

SAMPLE Component                                ROW 1 TO 11 OF 12

Select an object. Then press Enter to Edit definition.

Description . . . . Sample Component
Installation time . :
Installed by . . . . :

/ Object Name      Object Type  Member      Part
- DRLSSAMP         TABSPACE   DRLSSAMP
- SAMPLE          LOG        DRLLSAMP
- SAMPLE          REPGROUP  DRLOSAMP
- SAMPLE_H        TABLE    DRLTSAMP
- SAMPLE_H_M      UPDATE    DRLTSAMP
- SAMPLE_M        TABLE    DRLTSAMP
- SAMPLE_USER     LOOKUP    DRLTSAMP
- SAMPLE_01       RECORD    DRLRSAMP
- SAMPLE_01_H     UPDATE    DRLTSAMP
- SAMPLE01        REPORT    DRLOSAMP
- SAMPLE02        REPORT    DRLOSAMP

Command ==>
F1=Help   F2=Split   F3=Exit   F4=Exclude F5=Add obj  F7=Bkwd
F8=Fwd    F9=Swap    F10=View  F11=Delete F12=Cancel

```

Figure 60. Component window

2. Press F10 to limit the list of objects displayed in the window.
The View Objects window is displayed.
3. Type selection criteria in fields in the View Objects window and press Enter.
Tivoli Decision Support for z/OS returns to the Component window and shows only those objects that meet the criteria.
4. You can choose to edit objects, add objects, or delete objects. When you finish, press F3.
Tivoli Decision Support for z/OS returns to the Components window.

Viewing or editing an object definition

Before you modify any data set that contains Tivoli Decision Support for z/OS definitions, copy the member to avoid changing the shipped version. Copy any member you plan to change from the Tivoli Decision Support for z/OS definitions or reports library to your local definitions library, DRL.LOCAL.DEFS. (The default names of the Tivoli Decision Support for z/OS definitions and reports libraries are DRL181.SDRLDEFS and DRL181.SDRLRENU.)

You can use the administration dialog to view and edit an object definition. To edit an object in a component:

1. From the Component window, select an object to work with, and press Enter.
Tivoli Decision Support for z/OS accesses the ISPF editor, where you can edit (or view) the object definition.
2. When you finish editing the object definition, press F3 to exit the ISPF edit session.
Tivoli Decision Support for z/OS returns to the Component window.

Adding an object to a component

Components include object definitions necessary to collect log data, store it in the Tivoli Decision Support for z/OS database, and generate reports. However, if you create customized objects, you can add the object definition to an existing component.

Working with a component definition

Before using the administration dialog to add an object to a component, create the definition member that defines the object. See Chapter 4, “Overview of Tivoli Decision Support for z/OS objects,” on page 71 for more information about definition members.

To add an object to a component:

1. From the Component window, press F5.
The Add Object window is displayed.
2. Type information about the new object, and press Enter.
You must use the same name in the Object name field as the one that appears in the definition member for the object. For example, if there is a definition member, DRLLSAMP, that contains the log collector language statement `DEFINE LOG SAMPLE;`, you must specify `SAMPLE` as the name of the log definition object.
Tivoli Decision Support for z/OS saves the object specification (that includes the name of the member that defines it) and returns to the Component window.
3. Repeat this procedure to add additional objects.

Deleting an object from a component

Components include object definitions necessary to collect log data, store it in the Tivoli Decision Support for z/OS database, and generate reports. If you do not need to collect, store, or report on certain types of data, you can delete object definitions for those data types.

Note: When you delete an object using the dialog, Tivoli Decision Support for z/OS deletes references to the object from the component. It does not delete the definition member that contains log collector language statements that define the object. You can add the object again at a later time.

To delete an object from a component:

1. From the Component window, select the object to delete, and press F11.
A Confirmation window is displayed.
2. From the Confirmation window, press Enter to confirm the deletion.
Tivoli Decision Support for z/OS deletes from its system tables all references from the component to the object and returns to the Component window.

Excluding an object from a component installation

This window User Modified Objects allows you to exclude Tivoli Decision Support for z/OS objects that have been modified by you, from the installation of the component.

Objects that are listed here were previously included by you in the component installation, although they contain your modifications to the IBM-supplied object.

For an explanation of the use of `VERSION` variable in controlling the excluding of user-modified objects from component installation, see “How Tivoli Decision Support for z/OS controls object replacement” on page 72.

To exclude an object from a component installation:

1. From the Components window, select the component. Then select the Show user objects option in the Component pull-down.

2. From the User Modified Objects window, select the object to exclude, and press F4.
A Confirmation window is displayed.
3. From the Confirmation window, press Enter to confirm that the object should be excluded from the installation.

Including an object in a component installation

After you have excluded an object from the installation of a component (see “Excluding an object from a component installation” on page 210 for details), you have the option to re-include the object.

To include an object in a component installation:

1. From the Components window, select the component. Then select the Show excluded option in the Component pull-down.
2. From the Objects Excluded window, select the object to include, and press F4.
A Confirmation window is displayed.
3. From the Confirmation window, press Enter to confirm that the object should be included in the installation.

Deleting a component

To remove all references to a component from Tivoli Decision Support for z/OS, you can use the administration dialog to delete the component. Do not delete components shipped with Tivoli Decision Support for z/OS unless you are sure you are not going to use them.

To delete a component:

1. Uninstall the component that you plan to delete. See “Uninstalling a component” on page 190 for more information.
You must uninstall a component before deleting it. Uninstalling deletes all objects of the component.
2. From the Components window, select the component. Then select the Delete option in the Component pull-down.
A confirmation window is displayed.
3. Press Enter to confirm the deletion.

Tivoli Decision Support for z/OS deletes from its system tables all references to the component. The component no longer appears in the list of components in the Components window. The feature definition member (see Chapter 4, “Overview of Tivoli Decision Support for z/OS objects,” on page 71) still exists, however, and you can reinstall it at a later time. Before reinstalling deleted components, you must update the system tables to refresh the list of components available for installation.

Creating a component

If you have created a set of definitions (for example, for records or tables) using log collector language or report definition language, you can package them as a component. Creating a component can also be useful when designing a component to use at other sites. You must also transfer members that define the objects to the system at the other site.

You can define a component with SQL statements that directly update these system tables: DRLCOMPONENTS, DRLCOMP_PARTS, and DRLCOMP_OBJECTS,

Working with a component definition

described in “Dialog system tables” on page 299. Tivoli Decision Support for z/OS features define entries in these tables as you create or update the system tables, using SQL statements in definition members. For examples of component definition members, see Chapter 4, “Overview of Tivoli Decision Support for z/OS objects,” on page 71.

Note: As you create your component, remember that Tivoli Decision Support for z/OS requires that some definitions exist before you can install others. For example, if your component contains record procedures, you must install the record definition that maps the source record for the record procedure before installing the record procedure. Furthermore, you must install the record procedure before installing the record definition that maps the output of the record procedure. To do this, put both definitions in the same member.

Tivoli Decision Support for z/OS installs component definitions in this order:

1. Log
2. Record
3. Record procedure
4. Tablespace
5. Lookup table
6. Table
7. Update
8. View
9. Report group
10. Report

The order of installation within a definition type is determined by the sorting sequence of the definition member names.

If you plan to use a component on the same Tivoli Decision Support for z/OS system on which are creating it, you can use the administration dialog to create the component:

1. Optionally, you can select an existing component for Tivoli Decision Support for z/OS to use as a template for the new component before performing the next step.
2. From the Components window, press F5.
The New Component window is displayed.
3. Type information about the new component in the fields.
4. Press F5 to add an object to the component.
The Add Object window is displayed. See “Adding an object to a component” on page 209 for more information.
5. Select an object, and press Enter to edit its definition.
Tivoli Decision Support for z/OS accesses the ISPF editor, where you can edit the object definition. See “Viewing or editing an object definition” on page 209 for more information.
6. To delete an object that currently exists (either it existed in the template or you decided not to use an object you added), select the object, and press F11.
A Confirmation window is displayed for you to confirm the deletion. See “Deleting an object from a component” on page 210 for more information.
7. When you finish adding, editing, or deleting objects, press F3.

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Tivoli Decision Support for z/OS returns to the Components window and lists the new component.

Working with a component definition

Chapter 13. Working with log and record definitions

Tivoli Decision Support for z/OS uses log definitions to associate a series of processing definitions with a certain type of log data set. An example is the SMF log definition that Tivoli Decision Support for z/OS uses to process SMF log data sets created by MVS. Tivoli Decision Support for z/OS associates log, record, and update definitions with the SMF log and uses these definitions to collect the data, manipulate it, and store it in appropriate tables.

This chapter describes how to use the administration dialog to work with log and record definitions. After reading this chapter, you should know how to:

- Work with the contents of logs (page 215):
 - View a list of log data sets that Tivoli Decision Support for z/OS has collected (page 215)
 - Collect data from a log into DB2 tables (page 217)
 - Display statistics of log data sets (page 219)
 - Display the contents of a log data set (page 219)
 - Generate a report on a record in a log data set (page 220)
- Work with log definitions (page 222):
 - View and modify a log definition and its header fields (page 223)
 - Create a log definition (page 224)
 - Delete a log definition (page 224)
- Work with record definitions (page 225):
 - View and modify a record definition (page 225):
 - Work with fields in a record definition (page 227)
 - Work with sections in a record definition (page 227)
 - Create a record definition (page 228)
 - Display update definitions associated with a record (page 229)
 - Delete a record definition (page 229)
 - View and modify a record procedure definition (page 229)
 - Create a record procedure definition (page 231)
 - Delete a record procedure definition (page 231)

Working with the contents of logs

To work with logs, first display a list of log definitions stored in Tivoli Decision Support for z/OS system tables:

1. From the Tivoli Decision Support for z/OS Administration window, select 3, Logs.
2. Press Enter.

Tivoli Decision Support for z/OS displays the Logs window.

Viewing a list of log data sets collected

The Tivoli Decision Support for z/OS Data Sets window shows you a list of data sets that have been collected. The window (Figure 61 on page 216) shows the name of each data set, when it was collected, and the status of the collect job.

Working with the contents of logs

The Status column reads OK if the collect job ran uninterrupted and without error. It shows Incomplete if the job was interrupted before the entire log had been processed (for example, due to a locking or out of space problem). Warning in the Status column means that the collect issued warning messages but the job completed successfully.

You can display detailed collection statistics for each collected data set. This is the default action for the window; you perform it by pressing Enter after selecting a data set.

You can also display the data in a log data set, record by record.

To view a list of collected log data sets:

1. From the Logs window, select a log definition and press F6.

Tivoli Decision Support for z/OS displays the Data Sets window for the log type you selected (see Figure 61). You can then display collect statistics for each data set.

SMF Data Sets		ROW 1 TO 15 OF 169			
Select one data set. Then press Enter to view statistics.					
/	Data Sets	Time collected	Status		
-	SYST.SMFSYSA.D930131	2000-02-01-04.26.57	OK		
-	SYST.SMFSYSA.D930130	2000-01-31-05.22.15	OK		
-	SYST.SMFSYSB.D930129	2000-01-30-04.14.36	OK		
-	SYST.SMFSYSA.D930129	2000-01-30-02.22.14	Incomplete		
-	SYST.SMFSYSB.D930128	2000-01-29-02.59.20	OK		
-	SYST.SMFSYSA.D930128	2000-01-29-01.38.50	OK		
/	SYST.SMFSYSB.D930127	2000-01-28-08.30.02	Warning		
-	SYST.SMFSYSA.D930127	2000-01-28-03.56.24	Warning		
-	SYST.SMFSYSB.D930126	2000-01-27-03.23.27	OK		
-	SYST.SMFSYSA.D930126	2000-01-27-03.26.17	OK		
-	IVT.SMFCICS.TEST1	2000-01-26-14.23.23	OK		
-	IVT.SMFCICS.DELTA	2000-01-26-10.42.26	OK		
-	SYST.SMFSYSB.D930125	2000-01-26-04.18.48	OK		
-	SYST.SMFSYSA.D930125	2000-01-26-02.56.26	OK		
-	SYST.SMFSYSB.D930124	2000-01-26-04.18.48	OK		
Command ==>					
F1=Help	F2=Split	F3=Exit	F5=Display	F7=Bkwd	F8=Fwd
F9=Swap	F11=Delete	F12=Cancel			

Figure 61. Data Sets window

2. From the Data Sets window, select a data set and press Enter.

Tivoli Decision Support for z/OS displays the Collect Statistics window for the data set (Figure 62 on page 217).

```

SMF Collect Statistics

Press Enter to return.

Data set . . . . : SYST.SMFSYSB.D930127
Volume . . . . . : TS0007

Time collected . . : 2000-01-28-08.30.02   Collected by . . . : STROMBK
Elapsed time . . . : 462                   Return code . . . . : 4
Times collected . . : 1                   Completed . . . . . : Y

First record . . . : 00001E2900006EB60093104FD3C4C7F140404040
                          : 0003000500000000004400180001000000000000
First timestamp . . : 2000-01-27-00.04.43
Last timestamp . . : 2000-01-27-22.17.23

Records read . . . : 187714                Records selected . . : 17701

Database updates : 0                Inserts : 13610      Deletes : 0

F1=Help      F2=Split      F9=Swap      F12=Cancel

```

Figure 62. Collect Statistics window

3. Press Enter to return to the Data Sets window after you finish viewing statistics.

To display the contents of a data set record by record, select the data set and press F5.

Tivoli Decision Support for z/OS displays the Record Selection window. Refer to “Displaying the contents of a log” on page 219 for more information.

Deleting a log data set

To delete data set statistics from Tivoli Decision Support for z/OS system tables:

1. From the Data Sets window, select the data set and press F11.

Tivoli Decision Support for z/OS displays a confirmation window.

2. Press Enter to confirm the deletion.

Tivoli Decision Support for z/OS deletes any references it has to the data set, which no longer appears in the list of collected data sets.

Collecting data from a log into DB2 tables

Tivoli Decision Support for z/OS stores data it collects in DB2 tables in the Tivoli Decision Support for z/OS database, following the instructions in update definitions associated with records in the log.

Usually, you use a batch job to collect log data. (See “Collecting log data” on page 137 for more information about sample collect jobs.) However, you can use the administration dialog to perform online collection (for example, to correct problems or to test new log, record, or update definitions).

Note: Some logs require special processing or contain collect statements that can be initiated only from batch jobs. Such logs include those for DCOLLECT, VMACCT, SMF_VPD, and IMS.

To collect data from a log into DB2 tables:

Working with the contents of logs

1. From the Logs window, select a log and press F11.
The Collect window is displayed (see Figure 63).

```

Log  Utilities  View  Other  Help

                                Collect

Type information. Then press Enter to edit the collect JCL.

Data set.  DRLxxx.SDRLEDFS(DRLSAMPL)                (reqd)
Volume . . . _____ (If not cataloged)
Unit . . . _____ (Required for batch if Volume defined)

Reprocess . . . . . 2  1. Yes
                               2. No
Commit after . . . . . 1  1. Buffer full
                               2. End of file
                               3. Specify number of records

Number of records . . . _____
Buffer size . . . . . 10
Extention . . . . . 2  1.K
Condition . . . . . _____ 2.M

F1=Help      F2=Split      F4=Online      F5=Include      F6=Exclude
F9=Swap      F10=Show fld   F11=Save def  F12=Cancel

F8=Fwd      F9=Swap      F4=Action      F11=Collect      F12=Cancel
  
```

Figure 63. Collect window

2. Type the name of the log data set in the Data set field.

Note: The log data sets used as input for the collect (DRLLOG DD statement) are expected to be sorted in chronological order).

3. Optionally, specify other collect options in fields in the window.

Note: Entry fields followed by a greater than (>) sign respond to the F10 (Show fld) function key, which displays all of the data in the field or lets you type more data in the Show Field window.

4. Press F5 to include only specific DB2 tables in the collect process. The Include Tables window is displayed.
5. Select those tables to include in the collect process and press Enter. You are returned to the Collect window.

You can exclude tables as well. You need exclude only tables that Tivoli Decision Support for z/OS would normally update during the collection.

6. Press F6 to exclude tables from the collect process.

The Exclude Tables window is displayed. Select tables to exclude from the collect process and press Enter. You are returned to the Collect window.

7. Run the collect either in batch or online:

- Press Enter to run the collect in batch mode.

Tivoli Decision Support for z/OS builds a JCL job stream for the collect job and accesses the ISPF editor where you can edit and submit the JCL.

- Press F4 to perform an online collection.

Tivoli Decision Support for z/OS starts the collect process online. When the collection is complete, collect messages are displayed in an ISPF browse window.

8. Press F3 to return to the Logs window.

Displaying log statistics

You can create log statistics for any log data set, regardless of whether it has been collected. A log statistics file shows the number of records of each type in a log data set. It also shows records built by log and record procedures.

To view statistics for a log data set:

1. From the Logs window, select a log definition.
2. Select 3, Show log statistics, from the Log pull-down.

You are prompted for the name of a log data set.

3. Type the name of the data set and press Enter.

Tivoli Decision Support for z/OS displays statistics for the log (see Figure 14 on page 41).

```

DRLnnnnI Logstat started at 2000-12-04-10.04.15
DRL0302I Processing SMF.DATA.SET on VOL001
DRL0341I The first record timestamp is 2000-06-03-07.00.01.730000.
DRL0342I The last record timestamp is 2000-06-03-11.52.40.220000.
DRL0003I
DRL0315I Records read from the log or built by log procedure:
DRL0317I Record name          Number
DRL0318I -----
DRL0319I SMF_000                0
DRL0319I SMF_006                6
DRL0319I SMF_007                0
DRL0319I SMF_021                0
DRL0319I SMF_025                0
DRL0319I SMF_026                476
DRL0319I SMF_030               3737
DRL0319I SMF_070                40
DRL0319I SMF_071                40
DRL0319I SMF_072_1             280
DRL0319I SMF_090                0
DRL0320I Unrecognized         3
DRL0318I -----
DRL0321I Total                 4582
DRL0003I
DRL0316I Records built by record procedures:
DRL0317I Record name          Number
DRL0318I -----
DRL0319I SMF_030_X                2012
DRL0319I SMF_070_X                200
DRL0318I -----
DRL0321I Total                 2212
DRLnnnnI Logstat ended at 2000-12-04-10.09.43

```

Figure 64. Sample log statistics output

4. When you finish viewing statistics, press F3.

The Logs window is displayed.

Displaying the contents of a log

Tivoli Decision Support for z/OS provides a facility for displaying the contents of a log, record by record. The Record Data window describes each field in each record in the log data set you identify.

To view the contents of a log:

1. From the Logs window, select the log.

Working with the contents of logs

- From the Utilities pull-down, select 2, Display log, and press Enter.

Note: You can also display the contents of a log by selecting Display record from the Record Definition window or by pressing F5 from the Data Sets window.

The Record Selection window is displayed.

- Type the log data set name and, optionally, the name of a record type (to display only one record definition), or a record sequence number (to start displaying records at that position in the log). Press Enter.

The Record Data window is displayed.

Record Data					ROW 1 TO 13 OF 222
Press Enter to view the next record.					
Record name . . :	SMF_030	Record number :	3		
Data set . . . :	LDG.SMFSYSA.W20				
Field Name	Type	Length	Offset	Value	
SMF30LEN	BINARY	2	0	628	
SMF30SEG	BINARY	2	2	0	
SMF30FLG	BIT	1	4	11001110	
SMF30RTY	BINARY	1	5	30	
SMF30TME	TIME	4	6	07.00.03.830000	
SMF30DTE	DATE	4	10	2000-06-03	
SMF30SID	CHAR	4	14	MVS1	
SMF30WID	CHAR	4	18	JES2	
SMF30STP	BINARY	2	22	3	
-----	-----	-----	-----	-----	
TRIPLETS	SECTION	88	24	1 (1)	
-----	-----	-----	-----	-----	
SMF30SOF	BINARY	4	0	112	
Command ==> _____					
F1=Help F2=Split F7=Bkwd F8=Fwd F9=Swap F12=Cancel					

Figure 65. Record Data window

- Press Enter to step through records in the log.
Each time you press Enter, Tivoli Decision Support for z/OS displays the next identified record in the log.
- When you finish viewing record data, press F12.
You are returned to the Logs window.

Creating a report on a record

To produce a report of the data in a record type without performing a collect operation, you can use the Tivoli Decision Support for z/OS list function. For example, you may need very detailed data from a record, or you may want to get information from a record one time, without creating Tivoli Decision Support for z/OS tables for it. The list function creates a report of the data in a record either in QMF format or as a data set that can be browsed.

To create a report of the data in a record:

- From the Logs window, select the log and press Enter.
The Record Definitions window for the log is displayed (see Figure 69 on page 225).
- Select a record and press F11.

The List Record window for the record is displayed (see Figure 66 on page 221).

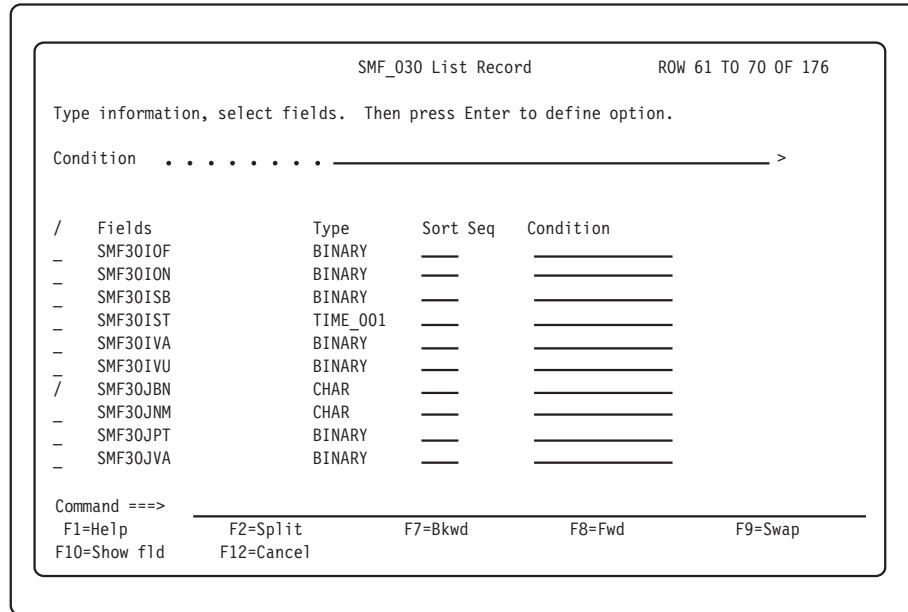


Figure 66. List Record window

- From the List Record window, select fields to include in the report. Type information in the fields and press Enter.
 If your installation uses QMF, the Report Display Options window is displayed.
- In the Report Display Options window, choose whether to display the report using QMF or as a data set that can be browsed. Specify the name of the log data set from which Tivoli Decision Support for z/OS is to produce the report, then press Enter.
 If your installation does not use QMF, the report is displayed using ISPF browse. Specify the name of the log data set from which Tivoli Decision Support for z/OS is to produce the report in the Input Log Data Set Name window, then press Enter.
 The report is displayed.

Working with the contents of logs

```
ISRBROBF STROMBK.DRLLST1 ----- LINE 00000000 COL 001 080
***** TOP OF DATA *****
SMF30CPS SMF30CPT SMF30DTE SMF30JBN SMF30RST SMF30SIT
-----
0 18 2000-06-03 LOGREFL1 07.00.00 07.00.01
1 19 2000-06-03 LOGREFL2 07.00.00 07.00.05
0 17 2000-06-03 LOGREES1 07.00.01 07.00.07
0 13 2000-06-03 LOGREES2 07.00.01 07.00.09
2 20 2000-06-03 LOGRSP4A 07.00.02 07.00.10
1 19 2000-06-03 LOGSP4B 07.00.02 07.00.22
0 16 2000-06-03 LOGRXAA 07.00.03 07.00.23
0 13 2000-06-03 LOGRXAB 07.00.03 07.00.26
4 73 2000-06-03 EID3D105 07.00.12 07.00.13
0 7 2000-06-03 EID3D105 07.00.12 07.01.21
9 79 2000-06-03 EID3D105 07.00.12 07.01.21
227 1108 2000-06-03 EID4 01.14.42 01.14.43
18 226 2000-06-03 EID4 07.12.42 07.12.44
1 12 2000-06-03 XGORANW 07.26.33 07.26.34
1 12 2000-06-03 XGORANW 07.26.50 07.26.51
7 215 2000-06-03 NORBACK 07.31.52 07.31.52

The list record action is executed successfully.
COMMAND ==> SCROLL ==> CSR
F1=Help F2= F3=End F4= F5=R Find F6=R Change
F7=Backward F8=Forward F9= F10=Left F11=Right F12=Cursor
```

Figure 67. Output from List record function

- When you finish viewing the report, press F3 to exit QMF or the ISPF browse window.
You are returned to the List Record window.
- From the List Record window, press F12 to return to the Record Definitions window.
- From the Record Definitions window, repeat this procedure for more records or press F3 to return to the Logs window.

Working with log definitions

All the logs that you plan to process must be defined to Tivoli Decision Support for z/OS. Log definitions included with each component define the logs that Tivoli Decision Support for z/OS uses to collect data.

A log definition can include these elements:

Header	Lists fields common to all records in the log.
Timestamp	Describes how to derive the timestamp of a record from fields in the header.
First record	Describes a condition that should be met for the first record in the log data set.
Last record	Describes a condition that should be met for the last record in the log data set.
Log procedure	Identifies a program that is invoked for each record read.
Log procedure parameters	Identifies the language of the log procedure and other information, such as information the log procedure cannot retrieve from the record.

For more information about log procedures, refer to the *Language Guide and Reference*.

Viewing and modifying a log definition

You can use the administration dialog to view or modify log definitions. To view and modify a log definition:

1. From the Logs window, select the log and press F5.

The Log Definition window is displayed (see Figure 68) for the log you specified.

```

Log  Utilities  View  Other  Help

SMF Log Definition

Type information. Press Enter to save and return.

Description . . . . . MVS Systems Management Facility >

Log procedure . . . . . _____ >
Log procedure parameter . . . _____ >
Log procedure language . . . 1. ASM
                             2. C

Record timestamp . . . . . TIMESTAMP(SMFDTE,SMFTME) >
First record condition . . . SMFRTY = 2 >
Last record condition . . . SMFRTY = 3 >

F1=Help      F2=Split      F5=Header      F9=Swap      F10=Show fld
F12=Cancel

Command ==>
F1=Help      F2=Split      F3=Exit      F5=Log def   F6=Datasets   F7=Bkwd
F8=Fwd      F9=Swap      F10=Actions  F11=Collect  F12=Cancel

```

Figure 68. Log Definition window

2. Change the log definition.
3. Press F5 to display header fields for the log definition.

The Header Fields window is displayed for the log. See “Working with header fields” for more information.

4. When you finish modifying the log definition, press Enter.

The changes are saved and you are returned to the Logs window.

Working with header fields

To add header fields to a log definition:

1. From the Header Fields window, press F5 to add a header field.

A blank Header Field Definition window is displayed.

2. Type the required information in the fields and press Enter.

The Header Field Definition window for the next field is displayed. Tivoli Decision Support for z/OS carries forward values for the Type and Length fields from the previous field and increments the Offset field by the length of the previous field.

3. Press F12 when you finish adding fields.

You are returned to the Header Fields window.

4. Press F3 to return to the Log Definition window.

To modify header fields for a log definition:

1. From the Header Fields window, select the header field and press Enter.

Working with log definitions

The Header Field Definition window for the header field you specified is displayed.

2. Type changes in the fields and press Enter.
You are returned to the Header Fields window.
3. Press F3 to return to the Log Definition window.

To delete header fields for a log definition:

1. To delete a header field, select the field and press F11.
A confirmation window is displayed.
2. Press Enter to confirm the deletion.
The header field is deleted from the list and you are returned to the Header Fields window.
3. Press F3 to return to the Log Definition window.

Creating a log definition

To collect data from a log that is not defined by a Tivoli Decision Support for z/OS component, you must create a log definition. You can use the administration dialog to create log definitions, or you can use the log collector language. Refer to the *Language Guide and Reference* for more information about creating log definitions with log collector language.

To create a log definition:

1. To use an existing log definition as a template, select a log definition from the Logs window. Otherwise, do not select a log definition before the next step.
2. Select 1, New, from the Log pull-down and press Enter.
The New Log Definition window is displayed.
3. Type information for the new log definition in the fields.
4. Press F5 to add header fields to the log definition.
The Header Fields window is displayed. See “Working with header fields” on page 223 for more information on adding header fields.
5. After you add all the information, press Enter.
The new log definition is saved and you are returned to the Logs window.

Deleting a log definition

If you no longer need to collect data from a log, you can use the administration dialog to delete the log definition. When you delete this log definition, you delete references to the log definition from Tivoli Decision Support for z/OS system tables, but you do not delete the member that defines the log type.

To delete a log definition:

1. From the Logs window, select a log and then select the Delete option from the Log pull-down.
A confirmation window is displayed.
2. Press Enter to confirm the deletion.
The log definition is deleted and you are returned to the Logs window.

Working with record definitions in a log

Each record in a log belongs to a record type that must be defined to Tivoli Decision Support for z/OS to be collected. Otherwise, Tivoli Decision Support for z/OS designates it as an unrecognized type of record and does not process it. Record definitions are included with each predefined component.

To view a list of record definitions:

1. From the Tivoli Decision Support for z/OS Administration window, select 3, Logs, and press Enter.
The Logs window is displayed.
2. From the Logs window, select the log that contains the record and press Enter.
The Record Definitions window for the log is displayed (see Figure 69).

```

Record  Utilities  Other  Help
-----
                                SMF Record Definitions                                ROW 8 TO 20 OF 124

Select a record definition.  Then press Enter to Open record definition.

/  Record Definitions  Description
-  SMF_000              IPL
-  SMF_002              Dump header
-  SMF_003              Dump trailer
-  SMF_004              Step termination
-  SMF_005              Job termination
-  SMF_006              JES2/JES3/PSF/External writer
-  SMF_007              Data lost
-  SMF_008              I/O configuration
-  SMF_009              VARY device ONLINE
-  SMF_010              Allocation recovery
-  SMF_011              VARY device OFFLINE
-  SMF_014              INPUT or RDBACK data set activity
-  SMF_015              OUTPUT, UPDAT, INOUT, or OUTIN data set

Command ==>>>
F1=Help   F2=Split   F3=Exit   F5=Procs   F6=Updates  F7=Bkwd
F8=Fwd    F9=Swap    F10=Actions  F11=List rec  F12=Cancel

```

Figure 69. Record Definitions window

Viewing and modifying a record definition

Most of a record definition describes the layout of the record. Records are divided into fields and, optionally, sections. A field is a named sequence of adjacent bytes. A section is a larger structure that contains fields or other sections. For more information about defining records, sections, and fields, refer to the *Language Guide and Reference*.

You can use the administration dialog to modify record definitions. To view and modify a record definition:

1. From the Record Definitions window, select the record definition and press Enter.

The Record Definition window for the record definition is displayed (see Figure 70 on page 226).

Working with record definitions in a log

```

SMF_030 Record Definition                                ROW 1 TO 9 OF 188

Type information. Select a field or a section. Then press Enter to
display.

Log name . . . SMF
Identified by . SMF30RTY= 30                            > (condition)
Built by . . . _____ + (program name)
Description . . Common address space work                >

/  Field                Type      Length  Offset  Section
-  SMF30LEN             BINARY   2       0
-  SMF30SEG             BINARY   2       2
-  SMF30FLG             BIT       1       4
-  SMF30RTY             BINARY   1       5
-  SMF30TME             TIME_001  4       6
-  SMF30DTE             DATE_001  4      10
-  SMF30SID             CHAR     4      14
-  SMF30WID             CHAR     4      18
-  SMF30STP             BINARY   2      22

Command ==>
F1=Help   F2=Split   F3=Exit   F4=Prompt   F5=Add fld   F6=Add sec
F7=Bkwd   F8=Fwd     F9=Swap   F10=Show fld F11=Delete  F12=Cancel

```

Figure 70. Record Definition window

2. Type any changes to the record definition.

Note: By changing the value in the Log name field, you can move the record to another log definition.

3. To modify the definition of a field, select the field and press Enter.

The Field Definition window is displayed. See “Working with fields in a record definition” on page 227 for more information.

4. To modify a section, select the section and press Enter.

The Section Definition window is displayed. See “Working with sections in a record definition” on page 227 for more information.

5. Press F5 to add fields to the record definition.

The Field Definition window is displayed. See “Working with fields in a record definition” on page 227 for more information.

6. Press F6 to add sections to the record definition.

The Section Definition window is displayed. See “Working with sections in a record definition” on page 227 for more information.

7. To delete a section or field from the record definition, select the section or field and press F11.

If the section or field definition already existed in the record definition, a confirmation window is displayed. Otherwise, you are deleting something you just added. Tivoli Decision Support for z/OS does not ask you to confirm this type of deletion and you can skip step 8.

8. Press Enter to confirm the deletion.

The section or field is deleted and you are returned to the Record Definition window.

9. Press F3 when you finish modifying the record definition.

Your changes are saved and you are returned to the Record Definitions window.

Note: If you have incorrectly modified the record definition, Tivoli Decision Support for z/OS displays error messages in an ISPF browse window.

Examine the messages and press F3 to return to the Record Definition window where you can correct the errors.

Working with fields in a record definition

You can use the administration dialog to modify existing field definitions or to add field definitions. You can also use log collector language statements. Refer to the *Language Guide and Reference* for more information about defining fields in a record.

To add a field definition to a record definition:

1. From the Record Definition window, press F5.
A blank Field Definition window is displayed.
2. Type the required information in the fields and press Enter.
Another Field Definition window is displayed (see Figure 71).

Figure 71. Field Definition window

3. Press F12 when you finish adding fields.
You are returned to the Record Definition window.

To modify a field definition:

1. From the Record Definition window, select the field and press Enter.
The Field Definition window is displayed.
2. Type changes in the fields and press Enter.
Your changes are saved and you are returned to the Record Definition window.

Working with sections in a record definition

You can use the administration dialog to modify existing section definitions or to add section definitions. You can also use log collector language statements. Refer to the *Language Guide and Reference* for more information about defining sections and repeated sections.

To modify a section definition:

Working with record definitions in a log

1. From the Record Definition window, select the section and press Enter. The Section Definition window is displayed (see Figure 72).

The screenshot shows a terminal window titled "SMF_030 Record Definition" with "ROW 42 TO 50 OF 188" in the top right. The main content is a "Section Definition" window. It prompts the user to "Type information. Press Enter to save and return." The fields are: "Section name" (SUBSYSTEM, required), "In Section name" (with a cursor and a plus sign), "Offset" (SMF30SDF, >(required)), "Length" (SMF30SLN, >), "Number" (SMF30SON, >), and "Present if condition" (with a cursor and a plus sign). Below these is a "Repeated" field set to 2, with options "1. Yes" and "2. No". At the bottom of the window are function key definitions: F1=Help, F2=Split, F4=Prompt, F9=Swap, F10=Show fld, and F12=Cancel. Below the window is a "Command ===>" line with a list of function keys: F1=Help, F2=Split, F3=Exit, F4=Prompt, F5=Add fld, F6=Add sec, F7=Bkwd, F8=Fwd, F9=Swap, F10=Show fld, F11=Delete, and F12=Cancel.

Figure 72. Section Definition window

2. Type changes in the fields and press Enter. Your changes are saved and you are returned to the Record Definition window.

To add a section definition to a record definition:

1. From the Record Definition window, press F5. A blank Section Definition window is displayed.
2. Type the required information in the fields and press Enter. Another Section Definition window is displayed.
3. Press F12 when you finish adding sections. You are returned to the Record Definition window.

Creating a record definition

You can create record definitions by using:

- The administration dialog, or
- Log collector language statements. For more information about defining records with the log collector language, refer to the *Language Guide and Reference*.

To create a record definition:

1. To use an existing record definition as a template, select a record definition from the Record Definitions window. Otherwise, do not select a record definition.
2. From the Record Definitions window, select 1, New, from the Record pull-down. The New Record Definition window is displayed.
3. Type information for the new record definition in fields of the window.
4. Press F5 to add fields to the record definition.

The Field Definition window is displayed. See “Working with fields in a record definition” on page 227 for more information.

5. Press F6 to add sections to the record definition.

The Section Definition window is displayed. See “Working with sections in a record definition” on page 227 for more information.

6. Press F3 when you finish adding fields and sections.

The new record definition is saved and you are returned to the Record Definitions window.

Displaying update definitions associated with a record

Update definitions contain instructions for summarizing log data into DB2 tables. The Record Definitions window lets you view which update definitions Tivoli Decision Support for z/OS uses to process data that a record definition maps.

Each record is associated with one or more update definitions. To display update definitions associated with a record:

1. From the Record Definitions window, select the record with associated update definitions you plan to view and press F6.

The Update Definitions window lists all the update definitions that use the selected record definition as input. From this window, you can view, modify, or add update definitions. See “Displaying and modifying update definitions of a table” on page 252 or “Creating an update definition” on page 268 for more information.

2. Press F3 when you finish viewing update definitions.

You are returned to the Record Definitions window.

Deleting a record definition

If you no longer require data from a certain record, you can use the administration dialog to delete the record definition.

Note: Tivoli Decision Support for z/OS prevents you from deleting record definitions that affect, or are affected by, other Tivoli Decision Support for z/OS objects. To delete a record definition, remove links from it to other Tivoli Decision Support for z/OS objects.

To delete a record definition:

1. From the Record Definitions window, select the record definition to delete. Then select 5, Delete, from the Record pull-down.

A confirmation window is displayed.

2. Press Enter to confirm the deletion.

The record definition is deleted and you are returned to the Record Definitions window.

Viewing and modifying a record procedure definition

Record procedures are programs that can modify, split, combine, sort, delete, or perform any function to records during collection. Record procedures use existing records as input and produce other records, which must be defined to Tivoli Decision Support for z/OS. Some Tivoli Decision Support for z/OS components include record procedures and their definitions.

Working with record definitions in a log

Each record procedure definition defines record types that the procedure processes, identifies the language of the procedure, and passes parameters to the procedure. For more information, refer to the *Language Guide and Reference*.

You can use the administration dialog to modify record procedure definitions.

To view and modify a record procedure definition:

1. From the Record Definitions window, select the record definition that is input to the record procedure you plan to modify and press F5.

The Record Procedures window for the record definition is displayed. This window lists all record procedure names that use the record as input.

2. From the Record Procedures window, select the record procedure whose definition you plan to modify and press Enter.

The Record Procedure Definition window for the record procedure is displayed (see Figure 73).

The screenshot shows a terminal window titled "SMF_030 Record Procedures" with "ROW 1 TO 1 OF 1" in the top right. The main content is a dialog box titled "DRL2S030 Record Procedure Definition". Inside the dialog, it says "Type in information. Then press Enter to save and return." There are three input fields: "Description" with a line of dots and a cursor, "Language" with a list of options "1. ASM" and "2. C", and "Procedure parameter" with a line of dots and a cursor. At the bottom of the dialog, there are function key assignments: F1=Help, F12=Cancel, F2=Split, F5=Link rec, F9=Swap, and F10=Show fld. Below the dialog, there is a "Command ==>" prompt followed by a list of function keys: F1=Help, F2=Split, F3=Exit, F5=New, F6=Delete, F7=Bkwd, F8=Fwd, F9=Swap, F11=Save def, and F12=Cancel.

Figure 73. Record Procedure Definition window

3. Type your changes in the fields.
4. Press F5 to link record definitions to the record procedure (to define them as input to the record procedure).

The Record Definitions window is displayed.

5. From the Record Definitions window, select record definitions to link to the record procedure and press Enter.

The record procedure is linked to the record definitions you selected and you are returned to the Record Procedure Definition window.

6. When you finish modifying the record procedure definition, press Enter.

Your changes are saved and you are returned to the Record Procedures window.

7. Repeat this procedure for other record procedures or press F3 to return to the Record Definitions window.

Creating a record procedure definition

If you must add a record procedure, you must first write a program according to the instructions in the *Language Guide and Reference*. You can then use the administration dialog to define the record procedure to Tivoli Decision Support for z/OS.

To create a record procedure definition:

1. From the Record Definitions window, select the record definition from which the new record procedure derives its input and press F5.
The Record Procedures window for the record definition is displayed.
2. From the Record Procedures window, press F5.
The New Record Procedure Definition window is displayed.
3. Type information for the new record procedure in the fields.
4. Press F5 if you want to link the record procedure to additional record definitions that describe record types on which the record procedure acts. The record procedure is automatically linked to the record type selected in step 1 above.
The Record Definitions window is displayed.
5. From the Record Definitions window, select record definitions to link to the record procedure and press Enter.
The record procedure is linked to the record definitions you selected and you are returned to the Record Procedure Definition window.
6. When you finish entering information, press Enter.
The new record procedure is saved and returns to the Record Procedures window.
7. Repeat this procedure to add more record procedures or press F3 to return to the Record Definitions window.

In addition, you must define a record type as the record procedure's output. Do this in the Record Definition window (Figure 70 on page 226). Type the record procedure name in the Built by field, to identify a record type as one that is created by the record procedure.

Deleting a record procedure definition

If you no longer require a record procedure, you can use the administration dialog to delete the record procedure definition.

Note: Tivoli Decision Support for z/OS prevents you from deleting record procedure definitions that affect, or are affected by, other Tivoli Decision Support for z/OS objects. To delete a record procedure definition, remove links from the record procedure to other Tivoli Decision Support for z/OS objects.

To delete a record procedure definition:

1. From the Record Definitions window, select the record definition that is associated with the record procedure to delete and press F5.
The Record Procedures window for the record definition is displayed.
2. From the Record Procedures window, select the record procedure to delete and press F6.
A confirmation window is displayed.
3. Press Enter to confirm the deletion.

Working with record definitions in a log

You are returned to the Record Procedures window.

4. Repeat this procedure to delete more record procedures or press F3 to return to the Record Definitions window.

The record procedure is deleted.

Chapter 14. Working with tables and update definitions

This chapter describes how to use the administration dialog to work with tables, update definitions, and other table-related objects such as purge conditions, indexes, views, and tablespaces. After reading this chapter, you should be familiar with these tasks:

- “Working with data in tables” on page 234
 - “Displaying the contents of a table” on page 234
 - “Editing the contents of a table” on page 235
 - “Showing the size of a table” on page 237
 - “Recalculating the contents of a table” on page 238
 - “Importing the contents of an IXF file to a table” on page 241. (This option is available only if your installation uses QMF with Tivoli Decision Support for z/OS.)
 - “Exporting table data to an IXF file” on page 241. (This option is available only if your installation uses QMF with Tivoli Decision Support for z/OS.)
 - “Purging a table” on page 241
 - “Unloading and loading tables” on page 242
- “Working with tables and update definitions” on page 247
 - “Opening a table to display columns” on page 248
 - “Displaying and modifying update definitions of a table” on page 252
 - “Displaying and editing the purge condition of a table” on page 257
 - “Displaying and modifying a table or indexspace” on page 259
 - “Displaying a view definition” on page 263
 - “Printing a list of Tivoli Decision Support for z/OS tables” on page 264
 - “Saving a table definition in a data set” on page 264
 - “Listing a subset of tables in the Tables window” on page 265
 - “Creating a table” on page 265
 - “Deleting a table or view” on page 267
 - “Creating a tablespace” on page 267
 - “Creating an update definition” on page 268
 - “Deleting an update definition” on page 268
 - “Administering user access to tables” on page 269
 - “Documenting a table” on page 270

When you use Tivoli Decision Support for z/OS to collect log data, the product stores the data in DB2 tables in its database. To view a list of the tables that are used to store collected data, from the Administration window, select 4, Tables. The Tables window is displayed (see Figure 74 on page 234). The list in this window includes all the Tivoli Decision Support for z/OS data tables, lookup tables, and control tables.

Working with tables and update definitions

```
Table Maintenance Utilities Edit View Other Help
-----
Tables                                ROW 1 TO 13 OF 212

Select one or more tables. Then press Enter to Open table definition.

/ Tables      Prefix  Type
- AVAILABILITY_D  DRL   TABLE
- AVAILABILITY_M  DRL   TABLE
- AVAILABILITY_PARM DRL   TABLE
- AVAILABILITY_T  DRL   TABLE
- AVAILABILITY_W  DRL   TABLE
- CICS_A_BASIC_H  DRL   TABLE
- CICS_A_BASIC_W  DRL   TABLE
- CICS_A_DBCTL_H  DRL   TABLE
- CICS_A_DBCTL_USR_H DRL   TABLE
- CICS_A_DBCTL_USR_W DRL   TABLE
- CICS_A_DBCTL_W  DRL   TABLE
- CICS_A_DLI_H    DRL   TABLE
- CICS_A_DLI_USR_H DRL   TABLE

Command ==>
F1=Help   F2=Split   F3=Exit   F5=Updates F6=PurCond F7=Bkwd
F8=Fwd    F9=Swap    F10=Actions F11=Display F12=Cancel
```

Figure 74. Tables window

The name of each table is shown in the Tables column.

The prefix of each table is shown in the Prefix column. Data tables and lookup tables have a prefix of DRL, the default value of the Prefix for all other tables field in the Dialog Parameters window. Control tables have a prefix of DRLSYS, the default value of the Prefix for system tables field in the Dialog Parameters window.

The Type column shows whether an object is a DB2 table or a view.

Working with data in tables

This section describes these tasks:

- Displaying the contents of a table
- Editing the contents of a table
- Showing the size of a table
- Recalculating the contents of a table
- Importing the contents of an IXF file to a table (This option is available only if your installation uses QMF with Tivoli Decision Support for z/OS.)
- Exporting table data to an IXF file (This option is available only if your installation uses QMF with Tivoli Decision Support for z/OS.)
- Purging a table
- Unloading and loading a table

Displaying the contents of a table

You can use the administration dialog to display the contents of a table.

Note: If QMF is not used with Tivoli Decision Support for z/OS on your system, this applies:

- Tables are displayed with ISPF browse.
- The Add rows and Change rows options on the Edit pull-down are not selectable.

- If you display a very large table, data table, or system table, you might run out of REXX storage. If this happens, there are a couple of things you can do to be able to display the table, or the part of the table you want to see:
 - Increase the region size.
 - If you need to see only the first part of the table, you can decrease the SQLMAX parameter on the Dialog Parameters window.
 - Use F4 (Run) on the SQL Query pop-up in the reporting dialog. Write an SQL SELECT statement that restricts the retrieved table information to the columns and rows you are interested in. This is a way to create and run a query without having to save it.

To display the contents of a table:

1. From the Tables window, select the name of the table that you plan to display.
2. Press F11, or select 1, Display, from the Utilities pull-down.

Tivoli Decision Support for z/OS displays the contents of the table in rows and columns.

Note: The table is not necessarily sorted in key sequence.

REPORT	DRL.SAMPLE_H				LINE 1	POS 1	79
DATE	TIME	SYSTEM ID	DEPARTMENT NAME	USER ID	TRANSACTIONS	RESPONSE SECONDS	
2000-01-01	13.00.00	SYS1	Sys Supp	PIANKA	40	267	
2000-01-01	15.00.00	SYS1	App1 Dev	ADAMS	72	198	
2000-01-02	08.00.00	SYS1	App1 Dev	JONES	28	131	
2000-01-02	11.00.00	SYS1	Retail	PEREZ	21	171	
2000-01-03	10.00.00	SYS1	Marketng	KWAN	74	220	
2000-01-03	11.00.00	SYS1	Manufact	LEE	22	234	
2000-01-03	11.00.00	SYS1	Manufact	LUTZ	2	95	
2000-01-04	07.00.00	SYS1	Finance	HAAS	26	109	
2000-01-04	07.00.00	SYS1	Sys Supp	THOMPSON	84	64	
2000-01-04	08.00.00	SYS1	Marketng	KWAN	63	290	
2000-01-04	08.00.00	SYS1	Finance	GEYER	94	131	
2000-01-04	08.00.00	SYS1	Finance	GEYER	94	131	
2000-01-04	09.00.00	SYS1	Marketng	STERN	51	162	
2000-01-04	09.00.00	SYS1	Manufact	PULASKI	69	76	
1=Help	2=	3=End	4=Print	5=Chart	6=Query		
7=Backward	8=Forward	9=Form	10=Left	11=Right	12=		
OK, DRL.SAMPLE_H is displayed.							
COMMAND ==>>							SCROLL ==>> PAGE

Figure 75. Using QMF to display a Tivoli Decision Support for z/OS table

3. Press F3 when you finish viewing the contents of the table,
You are returned to the Tables window.

Editing the contents of a table

You can use the administration dialog to edit the contents of a table, using either the QMF table editor (if QMF is used with Tivoli Decision Support for z/OS) or the ISPF editor.

The QMF table editor can be used in two modes: add and change. For a complete description, refer to the *Query Management Facility: Learner's Guide*

To add rows to a table using the QMF table editor:

1. From the Tables window (Figure 74 on page 234), select the table to edit.

Working with tables and update definitions

2. Select 1, Add rows, from the Edit pull-down.
Tivoli Decision Support for z/OS calls the QMF table editor in add mode.
3. Enter values for columns, and press F2.
4. Press F3 when you finish adding rows.
QMF prompts you for confirmation.
5. Press Enter.
You are returned to the Tables window.

To change or delete rows using the QMF table editor:

1. From the Tables window (Figure 74 on page 234), select the table to edit.
2. Select 2, Change rows, from the Edit pull-down.
Tivoli Decision Support for z/OS calls the QMF table editor in change mode.
3. To search for rows to change or delete, type values to search for, and press F2.
QMF displays the first row that matches the search criteria.
4. To change the row, type values for columns, and press F2.
5. To delete the row, press F11.
6. Press F3 when you finish changing or deleting rows.
QMF prompts you for confirmation.

Note: The ISPF edit function in the Tivoli Decision Support for z/OS administration dialog works according to ISPF rules. If no value is entered or if the value is removed, the character-type fields are filled with blanks. The ISPF Editor works the same way outside the dialog: that is, you can enter NULL values in Edit mode by typing HEX on the command line and X'00' in the field.

7. Press Enter.
You are returned to the Tables window.

If all columns in a table row can be displayed in 32 760 characters (if you are using ISPF version 4 or later, otherwise 255 characters), you can use the ISPF editor to edit the table. If the table has more rows than the value you set for the SQLMAX value field in the Dialog Parameters window, TDS prompts you to temporarily override the default for this edit session.

Tivoli Decision Support for z/OS deletes all rows from the table and then reinserts them when you use this function. Because of this, the ISPF editor is not recommended for large tables.

To edit a table using the ISPF editor:

1. From the Tables window (Figure 74 on page 234), select the table to edit.
2. Select 3, ISPF editor, from the Edit pull-down.
3. Tivoli Decision Support for z/OS copies table rows to a sequential file and accesses the ISPF editor (Figure 76).

```

ISREDD - STROMBK.DRLTAB ----- COLUMNS 001 017
***** ***** TOP OF DATA *****
==MSG> Use Tab Key to position to the next column
===== USER_ID | DEPARTME
===== | NT_NAME
===== | -----
000001 ADAMS   Appl Dev
000002 GEYER   Finance
000003 GOUNOT  Retail
000004 HAAS    Finance
000005 JONES   Appl Dev
000006 KWAN    Marketng
000007 LEE     Manufact
000008 LUTZ    Manufact
000009 MARINO  Retail
000010 MEHTA   Manufact
000011 PARKER  Finance
000012 PEREZ   Retail
000013 PIANKA  Sys Supp
000014 PULASKI Manufact
000015 SMITH   Appl Dev
COMMAND ===>
F1=Help      F2=          F3=End       F4=          F5=R Find    F6=R Change
F7=Backward  F8=Forward  F9=          F10=Left    F11=Right   F12=Cursor

```

Figure 76. Editing a table in ISPF

4. Make any modifications to the table rows. You can add, delete, and change rows.
5. To cancel the changes, type CANCEL on the command line, and press Enter. You are returned to the Tables window without changing the table.
6. Press F3 when you finish editing the table. The rows are reinserted into the DB2 table and you are returned to the Tables window.

Showing the size of a table

Monitor the size of tables periodically to ensure that they are not getting too large.

Use the DB2 RUNSTATS utility to get information about tables and store it in the DB2 catalog each time you need current information about any DB2 database, including the Tivoli Decision Support for z/OS database. As described in “Monitoring the size of the Tivoli Decision Support for z/OS database” on page 163, Tivoli Decision Support for z/OS provides a sample job, DRLJRUNS, as an example of how to run the RUNSTATS utility. You can also run the RUNSTATS utility like this:

1. From the list of tables, select the Maintenance pull-down *without selecting a table*.
2. Select option 1, Tablespace.
3. From the list of tablespaces, select one or more tablespaces (or make no selection to process all the tablespaces) and select the Utilities pull-down, as shown in Figure 35 on page 151.
4. Select option 2, Run DB2 RUNSTATS.

To learn more about the DB2 RUNSTATS utility, refer to the *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

Use the administration dialog to check the size of tables in the Tivoli Decision Support for z/OS database:

1. From the Tables window (Figure 74 on page 234), select tables to display their sizes.

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Note: If you do not select any tables, Tivoli Decision Support for z/OS displays the size of all tables in the Tivoli Decision Support for z/OS database.

2. Select 2, Show size, from the Utilities pull-down.

The Table Size window is displayed (Figure 77).

```
Table Maintenance Utilities Edit View Other Help
-----
Tables ROW 1 TO 13 OF 212
Table Size ROW 1 TO 10 OF 212
Press Enter to return.
Name Prefix Row Row length Kbytes
MVSPM_DEVICE_H DRL 80927 240 18967
MVSPM_DEVICE_AP_H DRL 34821 102 3468
MVSPM_CHANNEL_H DRL 9338 140 1276
MVSPM_APPL_H DRL 2388 491 1145
MVSPM_WORKLOAD_H DRL 2727 308 820
MVSPM_STORAGE_H DRL 2567 199 498
MVSPM_PAGE_DS_H DRL 966 229 216
MVSPM_XCF_PATH_H DRL 1296 171 216
MVSPM_SWAP_H DRL 1771 114 197
MVSPM_ENQUEUE_H DRL 1642 100 160
Command ==>
F1=Help F2=Split F7=Bkwd F8=Fwd F9=Swap F12=Cancel
F8=Fwd F9=Swap F10=Actions F11=Display F12=Cancel
```

Figure 77. Table Size window

Notes:

- a. You can use the SORT command (for example, SORT KBYTES DESC) to find the largest tables.
 - b. If the information shown in the Table Size window is incomplete, run the DB2 RUNSTATS utility and restart this procedure.
3. After you finish viewing this window, press Enter.
You are returned to the Tables window.

Recalculating the contents of a table

Sometimes tables get filled with incorrect data during the collect process. (This can be caused by a situation such as a bad record in a log.) For a single, independent table, you can correct these problems using one of the options on the Edit pull-down. Tivoli Decision Support for z/OS provides a recalculate function for the following special conditions:

- When tables are updated from other tables and corrections must be propagated to all dependent tables
- When a key column is changed to a new value, and data already exists for the new key

You can also use the recalculate function to populate a new table from another table, for example a monthly table from a daily table.

You can use the administration dialog to recalculate the contents of tables. For more information about the RECALCULATE log collector language statement, refer to the *Language Guide and Reference*.

To recalculate the contents of tables:

1. From the Tables window (Figure 74 on page 234), select the source table (the table you plan to modify).
2. Select 8, Recalculate, from the Utilities pull-down.
The Recalculate window is displayed (Figure 78).

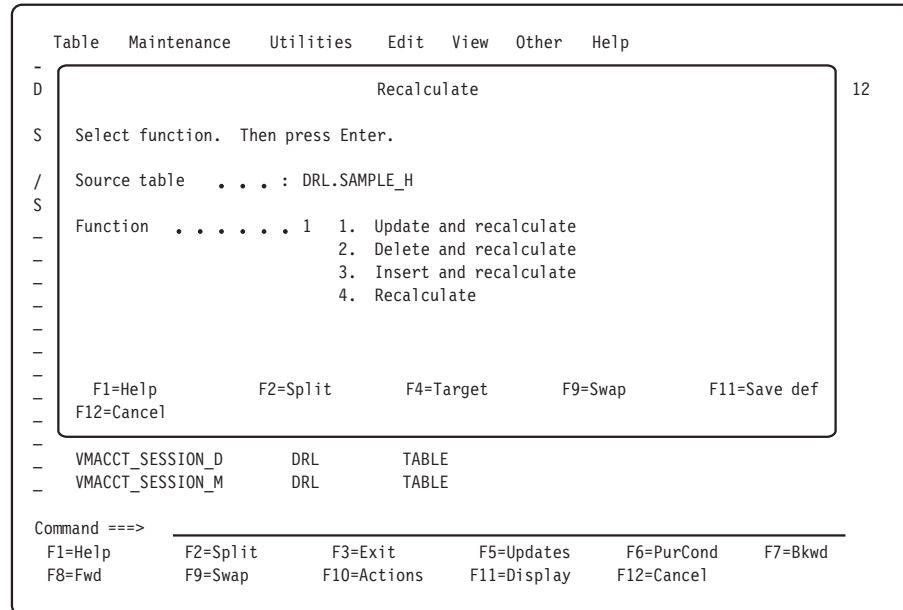


Figure 78. Recalculate window

3. Optionally, press F4 to specify target tables (the tables that changes in the source table should be propagated to). If you do not specify target tables, changes are propagated to all affected tables.
The Target Tables window is displayed.
4. Select one or more target tables from the list and press Enter.
You are returned to the Recalculate window.
5. Select the desired function from the list and press Enter. Options 1, 2, and 3 are used to modify the source table. Option 4 propagates selected source table rows without changing the source table.
If you did not choose to insert and recalculate (option 3), the Condition window is displayed (Figure 79 on page 240).

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```

Table Utilities Edit View Other Help
-
D Recalculate 12
S S Condition
/ S Type a select condition. Then press Enter to save and return.
S
F DATE = '2000-06-06' AND TIME = '13.00.00' AND _____
  USER_ID = 'ADAMS' _____
  _____
  _____
F
F1=Help F2=Split F9=Swap F12=Cancel
V
V
Command ==> _____
F1=Help F2=Split F3=Exit F5=Updates F6=PurCond F7=Bkwd
F8=Fwd F9=Swap F10=Actions F11=Display F12=Cancel
  
```

Figure 79. Condition window

- Specify a condition to restrict rows affected in the source table and press Enter. If you choose to update and recalculate (option 1) or insert and recalculate (option 3), the Column Values window is displayed (Figure 80).

```

Table Utilities Edit View Other Help
-
D Recalculate 12
S S Condition
/ S Column Values ROW 2 TO 8 OF 9
S
F Type column values. Then press Enter.
  Column Value
  TIME _____
  SYSTEM_ID _____
  DEPARTMENT_NAME _____
  USER_ID _____
  TRANSACTIONS _____
  RESPONSE_SECONDS _____
  CPU_SECONDS 2.0 _____
F
V
V
Command ==> _____
F1=Help F2=Split F7=Bwd F8=Fwd F9=Swap F12=Cancel
Comma
F1=Help F2=Split F3=Exit F5=Updates F6=PurCond F7=Bkwd
F8=Fwd F9=Swap F10=Actions F11=Display F12=Cancel
  
```

Figure 80. Column Values window

- Type column values in the fields, and press Enter. The recalculate function is performed and you are returned to the Recalculate window.
- Press F12 to return to the Tables window.

Importing the contents of an IXF file to a table

You might want to import data from another source into a Tivoli Decision Support for z/OS table. If QMF is used with Tivoli Decision Support for z/OS, you can use the administration dialog to import data in the Integration Exchange Format (IXF). Refer to the *QMF Application Development Guide* for a description of the IXF format.

Note: When you import the file, Tivoli Decision Support for z/OS replaces the contents of the table.

To import data into a table:

1. From the Tables window (Figure 74 on page 234), select the table.
2. Select 3, Import, from the Utilities pull-down.
The Import Data Set window is displayed.
3. Type the name of the data set that contains the data you want to import and press Enter.
The data is imported into the table and you are returned to the Tables window.

Exporting table data to an IXF file

You might want to export data from a Tivoli Decision Support for z/OS table to an IXF data set. If QMF is used with Tivoli Decision Support for z/OS, you can use the administration dialog to do this.

To export data from a table:

1. From the Tables window (Figure 74 on page 234), select the table.
2. Select 4, Export, from the Utilities pull-down.
The Export Data Set window is displayed.
3. Type the name of the data set to export data into, and press Enter.
The data is exported into the data set you specified and you are returned to the Tables window.

Purging a table

Each table in the Tivoli Decision Support for z/OS database is associated with a purge condition that determines how long the data in the table is kept. See “Displaying and editing the purge condition of a table” on page 257 for a description of how to define the purge condition for a table.

Purging the database is normally a batch process. See “Purging Utility” on page 158 for a description of how to run purge in batch.

You can also use the administration dialog to delete the data specified by the purge condition:

1. From the Tables window (Figure 74 on page 234), select tables to purge.

Note: If you do not select any tables, Tivoli Decision Support for z/OS purges the contents of all data tables with purge conditions.

2. Select 9, Purge, from the Utilities pull-down.
The Purge Confirmation window is displayed.
3. Press Enter to confirm the purge.
The purge conditions associated with the tables are run and the statistics on the number of rows deleted from each table are displayed.

Unloading and loading tables

When you need to change a DB2 table, for example by adding a column, you can save the existing data by using the DB2 Unload utility. After the change to the table, you then reload the table using the Load utility. Using Unload and Load with no change reorganizes the data.

Moreover, the possibility of reading and writing a data set of data directly on tape improves possible recovery and backup operations.

The Load utility is used to load data into a table of a tablespace. It enables you to load records into the tables and builds or extends any indexes defined on them. If the tablespace already contains data, you can either add the new data, or replace the existing data with the new data. Because the Load utility operates at a tablespace level, to run it you must have the required authority for all the tables of the tablespace. The data set used for the Load utility can be read from both disk and tape. The Unload utility is used to unload data from a table to a sequential data set. To use the Unload utility, the definitions of the tablespace and tables must be available on the system. The data set used for the unload operation can be saved both on disk and tape.

Note: Load and Unload work only with tables, and cannot be used with views.

To unload the contents of a table:

1. From the Tables window (Figure 74 on page 234), select the tables to unload, as shown in Figure 81..

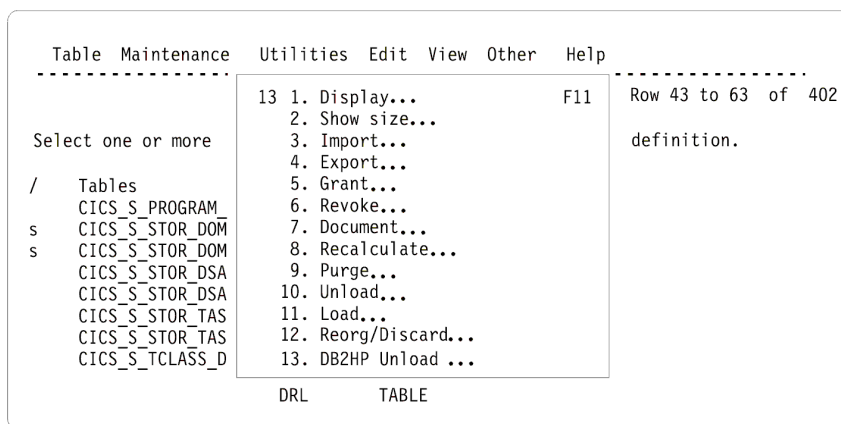


Figure 81. Selecting tables to unload

2. Select option Unload, from the Utilities pull-down menu.

The Unload Utility window opens, as shown in the following figure:

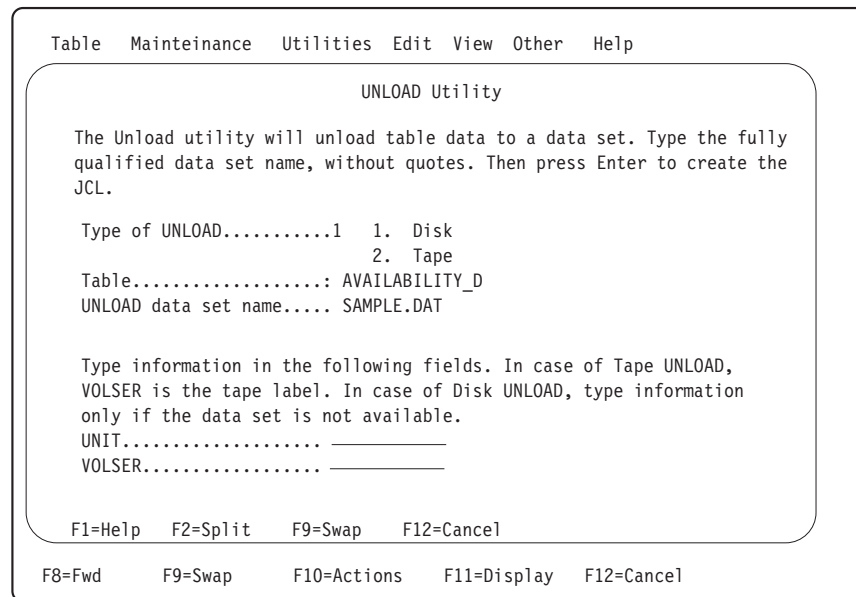


Figure 82. Unload Utility window

3. From the Unload Utility window, specify the unload type by inserting **1** for disk unload or **2** for tape unload. The default is Disk Unload.
4. Specify the name of the table and data set you want to unload.
5. If you selected Disk Unload,
 - if the data set already exists, leave the fields UNIT and VOLSER blank. If you need to create a new data set, enter the required information in both the fields.
 - If you selected Tape Unload,
 - specify the tape unit in the UNIT field, and the tape label in the VOLSER field.
6. When you are finished, press Enter.
 - A JCL is created and saved in your library, so that it can be used later. When the JCL is launched two data sets are automatically created. One is used to reload data (SYSPUNCH) and the other contains the data unloaded by the utility.

Note: When using Load on a multiple tablespaces, you must be careful, because Load works on a complete tablespace at a time (for information about replacing data with Load, refer to the *DB2 for OS/390 V5 Utility Guide and Reference*). This applies especially when tables are dropped and recreated.

For this reason, when you apply PTFs involving tables that need to be dropped and recreated, you should:

1. Unload the tables, if you want to keep the previously collected data.
2. Use SMP/E to apply the PTF.
3. Execute the SQL drop table statement of the above tables using either of the following:
 - DB2 SPUFI
 - Option 5, Process Tivoli Decision Support for OS/390 statements, from the Other pull-down on any primary window of the Tivoli Decision Support for OS/390 administration dialogs.
4. Execute the SQL create table statements for the same tables using either of the following methods:
 - Reinstall the component.

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- Select Option 5, Process Tivoli Decision Support for OS/390 statements, from the Other pull-down on any primary window of the Tivoli Decision Support for OS/390 administration dialogs. Execute the definition members of the local or the standard definition library, depending on whether or not the definitions have been user-modified. Ignore the error messages issued for the existing objects and make sure that the changed tables are correctly created.

5. Load your previously unloaded data.

To generate a job that reloads the data, from the Tables window, select option 11, Load. Then enter the required information, as explained above.

The following example shows control statements for the Unload utility. Data is unloaded from the AVAILABILITY_D table onto tape. The DDNAME for SYSPUNCH data set is completed with the UNIT and VOLSER information about the Tape Unit used. The data set input from panel is SYSREC00.

```
//UNLOAD JOB (ACCOUNT), 'NAME'
/*
/* THIS JCL HAS BEEN REWRITTEN IN ORDER
/* TO PROPERLY UNLOAD THE DATA FROM DB2 TABLES.
/* DSNTIAUL IS USED FOR UNLOAD INSTEAD OF DSNUPROC
/* UTILITY.
/* THEREFORE, PLEASE, NOTE THAT THIS IS ONLY
/* A SAMPLE THAT NEEDS TO BE PROPERLY CUSTOMIZED.
/* WARNINGS :
/* PLEASE CHECK PLAN NAME (NORMALLY DSNTIBVR),
/* V=DB2 VERSION, AND R=DB2 RELEASE;
/* TWO NEW DATASETS ARE DEFINED (SYSREC00 AND SYSPUNCH).
/* SYSPUNCH DATASET, IS CREATED AT UNLOAD STEP,
/* as USERID.SYSPUNCH (USERID.SYSPUNCH).
/* SYSREC00 DATASET IS SELECTED FROM the PREVIOUS PANEL.
/*
/* I M P O R T A N T :
/* CHECK THE DATA SET PARAMETER IF YOU HAVE CHOSEN
/* THE UNLOAD ON TAPE.
/*
//UNLOAD EXEC PGM=IKJEFT01,DYNAMNBR=20
//SYSTSPRT DD SYSOUT=*
//SYSTSIN DD *
DSN SYSTEM(DSN6)
RUN PROGRAM(DSNTIAUL) PLAN(DSNTIB71) -
PARMS('SQL') LIB('DSN710.RUNLIB.LOAD')
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//SYSREC00 DD DSN=USERID.DAT.UNLOAD,
// UNIT=TAPE_UNIT,
// SPACE=(4096,(5040,504)),
// DISP=(,PASS),
// LABEL=(1,SL),
// DCB=(RECFM=FB,LRECL=410,BLKSIZE=27880),
// VOL=SER=TAPE_LABEL
//SYSPUNCH DD DSN=USERID.SYSPUNCH,
// UNIT=xxxx,
// VOL=SER=xxxxxx,
// SPACE=(4096,(5040,504)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=27920),
// DISP=(NEW,CATLG,CATLG)
//SYSIN DD *
SELECT * FROM USERDB.AVAILABILITY_D;
```

The following example shows control statements for the Load utility. Data is loaded from tape into the AVAILABILITY_D table. The DDNAME for the

SYSPUNCH data set is completed with the UNIT and VOLSER information about the Tape Unit used. The data set input from panel is SYSREC00.

```
//LOAD JOB (ACCOUNT),'NAME'
/**
/** THIS JCL HAS BEEN REWRITTEN IN ORDER
/** TO PROPERLY LOAD THE DATA FROM DB2 TABLES.
/** DSNTIAUL IS PREVIOUSLY USED FOR UNLOAD
/** INSTEAD OF DSNUPROC UTILITY.
/** THEREFORE, PLEASE, NOTE THAT THIS IS ONLY
/** A SAMPLE THAT NEEDS TO BE PROPERLY CUSTOMIZED.
/** WARNINGS :
/** PLEASE CHECK PLAN NAME (NORMALLY DSNTIBVR),
/** V=DB2 VERSION, AND R=DB2 RELEASE;
/** TWO NEW DATASETS ARE DEFINED (SYSREC00 AND SYSPUNCH).
/** as USERID.SYSPUNCH (USERID.SYSPUNCH).
/** SYSREC00 DATASET IS SELECTED FROM the PREVIOUS PANEL
/**
/**
/** I M P O R T A N T :
/** SYSPUNCH DATASET NEEDS TO BE EDITED FROM USER
/** BEFORE EXECUTING LOAD,
/** INSERTING "RESUME YES LOG YES" OPTIONS,
/** IN ORDER TO CONTAIN COMMAND :
/** "LOAD DATA RESUME YES LOG YES INDDN
/** SYSREC00 INTO TABLE tablename"
/** CHECK THE DATA SET PARAMETER IF YOU HAVE CHOSEN
/** THE LOAD FROM TAPE.
/**
/**LOAD EXEC DSNUPROC,PARM='DSN6,MYUID'
/**DSNTRACE DD SYSOUT=*
/**SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
/**SORTWK01 DD UNIT=SYSDA,SPACE=(4000,(20,20),,,ROUND)
/**SORTWK02 DD UNIT=SYSDA,SPACE=(4000,(20,20),,,ROUND)
/**SORTWK03 DD UNIT=SYSDA,SPACE=(4000,(20,20),,,ROUND)
/**SORTWK04 DD UNIT=SYSDA,SPACE=(4000,(20,20),,,ROUND)
/**SORTOUT DD UNIT=SYSDA,SPACE=(4000,(20,20),,,ROUND)
/**SYSREC00 DD DSN=USERID.DAT.UNLOAD,
/** UNIT=TAPE_UNIT,VOL=SER=TAPE_LABEL,
/** LABEL=(1,SL),
/** DISP=SHR
/**SYSUT1 DD UNIT=SYSDA,SPACE=(4000,(20,20),,,ROUND)
/**SYSIN DD DSN=USERID.SYSPUNCH,DISP=SHR
```

Integration with DB2 High Performance Unload

The DB2 High Performance Unload is a high-speed utility for unloading DB2 tables from either a table space or an image copy. Tables are unloaded to one or more files based on a specified format. You can use it to extract data for movement across enterprise systems or for reorganization in-place. DB2 HP Unload can do the following:

- Rapidly unload table spaces
- Run parallel unloads accessing the same table space
- Unload against any image copy to eliminate interference with DB2 production databases
- Unload selected rows and columns
- Unload a maximum number of rows, unloading one row out of every n rows
- Generate load control statements for a subsequent reload.

The DB2 High Performance Unload can manage an UNLOAD command and an optional SELECT statement. The syntax of the SELECT statement is compatible with the syntax of the DB2 SELECT statement. The SELECT statement is used to define

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which table data must be extracted onto dataset or tape (for example, if in your table a DATE field is present, you can extract all the data with a date later than 2002-01-01, by writing the appropriate WHERE condition in the SELECT statement of the UNLOAD command).

Running DB2 High Performance Unload utility

To run the DB2 High Performance Unload utility, you must have the product correctly installed and configured on the system.

Note: The DB2HP Unload utility integration works in batch mode; it can run in interactive mode only if you have DB2 Administration Tool, or DB2 Tools Launchpad, installed on your system. These products are optional and not needed to run the DB2HP Unload utility.

To run the utility follow these steps:

1. From the Tables window, select the table to unload, as shown in Figure 74 on page 234.
2. From the Utilities pull-down menu, select option DB2HP Unload, as shown in Figure 81 on page 242.

Note: The DB2 High Performance Unload utility can only be run on tables. It cannot be run on views.

3. From the DB2 High Performance Unload Utility window, specify the unload type by inserting 1 for disk unload or 2 for tape unload. The default value is disk unload. Then, specify the name of data set that will be used to store the unloaded data, as shown in the following window.

```
Table  Maintenance  Utilities  Edit  View  Other  Help

                                DB2HP Unload Utility

The DB2HP Unload utility will unload table data to a data set. You can use the
utility only if the DB2HP product is present on system. Type the fully
qualified data set name, without quotes. Then press Enter to create the
JCL.

Type of DB2HP Unload.....1 1.  Disk
                               2.  Tape
Table.....: AVAILABILITY_D
Unload data set name..... SAMPLE.DAT

Type information in the following fields. In case of Tape UNLOAD, VOLSER
is the tape label. In case of Disk UNLOAD, type information only if the
data set is not available.
UNIT.....
VOLSER.....

F1=Help  F2=Split  F9=Swap  F12=Cancel

F8=Fwd   F9=Swap   F10=Actions  F11=Display  F12=Cancel
```

Figure 83. DB2 High Performance Unload utility

4. If you selected Disk, then if:
the data set already exists, leave the fields UNIT and VOLSER blank. If you need to create a new data set, enter the required information in both the fields.
If you selected Tape, then:
Specify the tape unit in the UNIT field, and the tape label in the VOLSER field.
5. When you are finished, press Enter.

A JCL is created and saved in your library so that it can be used later. When the JCL is launched two data sets are automatically created. One is used to reload data (SYSPUNCH), the other contains the data unloaded by the utility.

Sample control statement for DB2 High Performance Unload utility:

idd:break>Data has been unloaded from the AVAILABILITY_D table; the DDNAME for SYSPUNCH data set must be completed with UNIT and VOLSER information. The data set input from panel is SYSREC00.

```
//DB2HPU JOB (ACCOUNT),'NAME'
/**
/** THIS JCL HAS BEEN REWRITTEN IN ORDER
/** TO PROPERLY UNLOAD THE DATA FROM DB2 TABLES.
/** THE DB2 High Performance Unload (INZUTILB)
/** IS USED FOR UNLOAD DATA IN BATCH MODE.
/** THEREFORE, PLEASE, NOTE THAT THIS IS ONLY
/** A SAMPLE THAT NEEDS TO BE PROPERLY CUSTOMIZED.
/** WARNINGS :
/** V=DB2 VERSION, AND R=DB2 RELEASE;
/** TWO NEW DATASETS ARE DEFINED (SYSREC00 AND SYSPUNCH).
/** SYSPUNCH DATASET, IS CREATED AT UNLOAD STEP,
/** as USERID.SYSPUNCH (USERID.SYSPUNCH).
/** SYSREC00 DATASET IS SELECTED FROM the PREVIOUS PANEL.
/**
/** I M P O R T A N T :
/** CHECK THE DATA SET PARAMETER IF YOU HAVE CHOSEN
/** THE UNLOAD ON TAPE.
/**
//STEP1 EXEC PGM=INZUTILB,REGION=0M,DYNAMNBR=99,
// PARM='DSN6,DB2UNLOAD'
//STEPLIB DD DSN=DSN710.SINZLINK,DISP=SHR
/**
//SYSIN DD *
UNLOAD TABLESPACE PRM1DB.DRLSCOM
DB2 YES
QUIESCE YES QUIESCECAT YES
OPTIONS DATE DATE_A
SELECT * FROM PRM1.AVAILABILITY_D
OUTDDN (SYSREC00)
FORMAT DSNTIAUL
LOADDDN SYSPUNCH LOADOPT (RESUME NO REPLACE)
/*
//SYSPRINT DD SYSOUT=*
/**
/******* DDNAMES USED BY THE SELECT STATEMENTS *****
/**
//SYSREC00 DD DSN=SAMPLE.DAT,
// UNIT=3390,
// SPACE=(4096,(1,1)),
// DISP=(NEW,CATLG,CATLG),
// DCB=(RECFM=FB,LRECL=410,BLKSIZE=27880),
// VOL=SER=MYVOL
//SYSPUNCH DD DSN=USERID.SYSPUNCH,
// UNIT=xxxx,
// VOL=SER=xxxxxx,
// SPACE=(4096,(1,1)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=27920),
// DISP=(NEW,CATLG,CATLG)
```

Working with tables and update definitions

The rest of this chapter describes working with tables and update definitions.

Opening a table to display columns

You can use the administration dialog to view a table definition.

To open a table:

1. From the Tables window (Figure 74 on page 234), select the table definition you plan to view.
2. Press Enter.

The table definition is opened. Figure 84 shows an example of an opened table definition.

```

Table SAMPLE_H                                ROW 1 TO 9 OF 9

Select a column. Then press Enter to display the definition.

Database . . . : DRLDB                        Tablespace . . . : DRLSSAMP
Comments . . . : This table provides hourly sample data. >
/ Column      Type      Length Nulls Primary Key
- DATE        DATE      4      No    Yes
- TIME        TIME      3      No    Yes
- SYSTEM_ID   CHAR      4      No    Yes
- DEPARTMENT_NAME CHAR    8      No    Yes
- USER_ID     CHAR      8      No    Yes
- TRANSACTIONS INTEGER  4      Yes   No
- RESPONSE_SECONDS INTEGER  4      Yes   No
- CPU_SECONDS FLOAT    8      Yes   No
- PAGES_PRINTED INTEGER  4      Yes   No
***** BOTTOM OF DATA *****

Command ==>
F1=Help      F2=Split    F3=Exit     F5=Add col  F6=Indexes  F7=Bkwd
F8=Fwd       F9=Swap     F10=Show f1 F12=Cancel

```

Figure 84. Table window

3. Type changes to comments in the Comments field and press Enter.

Note: Press F10 to see the entire Comments field.

The changes to the comments are saved.

Displaying and modifying a column definition

To display and modify a column definition:

1. From the Table window, select the column, and press Enter.

The Column Definition window for the column is displayed (Figure 85 on page 249).

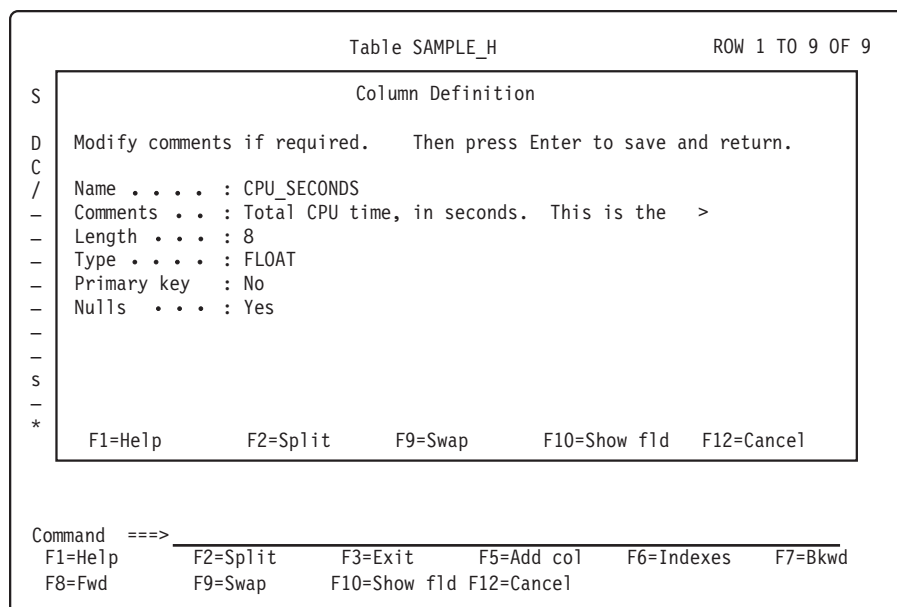


Figure 85. Column Definition window

2. Type changes to comments in the Comments field, and press Enter.

Note: Press F10 to see the entire Comments field.

The changes are saved and you are returned to the Tables window.

Adding a column to a table

You can add columns to a table, but you cannot delete columns.

To add a column to a table:

1. From the Table window, press F5.

The Add Column window is displayed(Figure 86 on page 250).

Working with tables and update definitions

```

-
S
D
C
/
-
-
-
-
-
-
*
C

```

Add Column

Type column information. Then press Enter to save and return.

Name . . . _____ (required)

Comments . . . _____ >

Length . . . _____ Primary key . 2 1. Yes
2. No

Type . _____ Nulls . 1 1. Default
2. NOT NULL
3. NOT NULL WITH
DEFAULT

1. Char
2. Varchar
3. Smallint
4. Integer
5. Float
6. Decimal
7. Date
8. Time
9. Timestamp
10. Graphic
11. Vargraphic
12. Long varchar
13. Long vargraphic

F1=Help F2=Split F9=Swap F10=Show fld F12=Cancel

Figure 86. Add Column window

2. Type information for the new column in the window, and press Enter.
The new column is added to the table and you are returned to the Add Column window.
3. When you finish adding columns to the table, press F12.
You are returned to the Tables window.

Displaying and adding a table index

If a table has a primary key, it must have an index on that key (the primary index). Some queries access tables using the primary index.

A table can have more than one index. Secondary indexes can give you faster data retrieval, but increase the amount of time that collect requires to update those tables.

Note: If you want to work with index **spaces**, see “Displaying and modifying a table or indexspace” on page 259.

To view or add indexes to a table:

1. From the Tables window, select a table and press Enter.
2. From the Table window, press F6.
The Indexes window is displayed (Figure 87 on page 251).


```

                                     Indexes                                ROW 1 FROM 1
Select an index. Then press Enter to display.

/  Indexes          Table          Unique Cluster
-  SAMPH_IX        SAMPLE_H        Yes     Yes
***** BOTTOM OF DATA *****

Command ==> _____
F1=Help   F2=Split   F3=Exit   F5=Add ind  F7=Bkwd   F8=Fwd
F9=Swap   F11=Delete  F12=Cancel
    
```

Figure 87. Indexes window

- To view an index definition, select the index and press Enter. The Index window is displayed (Figure 88). The index on the primary key should be a unique, clustering index. Refer to the DB2 documentation for a description of the other index options.

```

                                     Index SAMPH_IX                        ROW 1 TO 7 OF 9
S
Press Enter to return.
/
/*
Table name . . . . . : SAMPLE_H
Storage group . . . . . : SYSDEFLT          Subpages . . . :4
Primary quantity . . . . : 6                Unique . . . :YES
Secondary quantity . . . . : 3              Cluster . . . :YES
Erase . . . . . : NO                       Buffer pool . . :BPO

Column name      Column type   Seq  Order
DATE             DATE          1    ASC
TIME             TIME          2    ASC
SYSTEM_ID        CHAR           3    ASC
DEPARTMENT_NAME CHAR           4    ASC
USER_ID          CHAR           5    ASC
TRANSACTIONS     INTEGER
RESPONSE_SECONDS INTEGER

C
Command ==> _____
F1=Help   F2=Split   F7=Bkwd   F8=Fwd   F9=Swap   F12=Cancel
    
```

Figure 88. Index window

- Press Enter to return to the Indexes window.
- From the Indexes window, press F5 to add an index to the table. The Add Index window is displayed (Figure 89 on page 252).

Working with tables and update definitions

```

                                Add Index                                ROW 1 TO 5 OF 9
S
Type information.  Then press Enter to save and return.
/
Index name . . . . . _____ (required)
* Table Name . . . . . : SAMPLE_H
Storage group . . . . . _____ Subpages . . . . . _____
Primary quantity . . . . . _____ Unique . . . . . 2 1. Yes
Secondary quantity . . . . . _____ 2. No
Erase . . . . . 1 1. No Cluster . . . . . 2 1. Yes
2. Yes 2. No
Bufferpool . . . . . BPO
Column name      Column type      Seq      Order
DATE             DATE             _____
TIME             TIME             _____
SYSTEM_ID        CHAR             _____
DEPARTMENT_NAME CHAR             _____
USER_ID          CHAR             _____
C
Command ==> _____
F1=Help  F2=Split  F7=Bkwd  F8=Fwd  F9=Swap  F12=Cancel

```

Figure 89. Add Index window

6. Type the information for the new index and press Enter.
The index is added to the table and you are returned to the Indexes window.

Note: To modify an index, delete and recreate it.

Deleting a table index

To delete a table index:

1. From the Indexes window, select the index and press F11.
A confirmation window is displayed.
2. Press Enter to confirm the deletion.
You are returned to the Indexes window.

Displaying and modifying update definitions of a table

The instructions for entering data from logs into DB2 tables in the Tivoli Decision Support for z/OS database are provided by update definitions. An update definition describes how the data in a source (a record or a table) is summarized into a target table during collect. Refer to the *Language Guide and Reference* for information about how to define update definitions using the log collector language.

Update definitions are supplied for all data tables. You can use the administration dialog to modify these update definitions.

To display and edit the update definitions of a table:

1. From the Tables window (Figure 74 on page 234), select the table and press F5.
The Update Definitions window for the table is displayed (Figure 90). All update definitions where the selected table is either the source or the target are included.

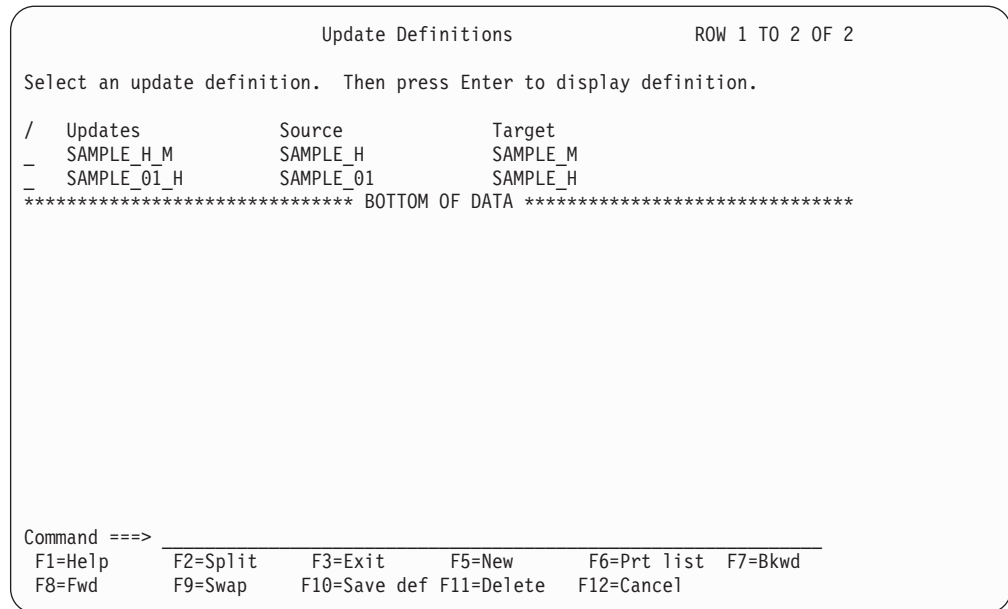


Figure 90. Update Definitions window

2. Select the update definition to modify and press Enter.
The Update Definition window for the update definition is displayed (Figure 91).

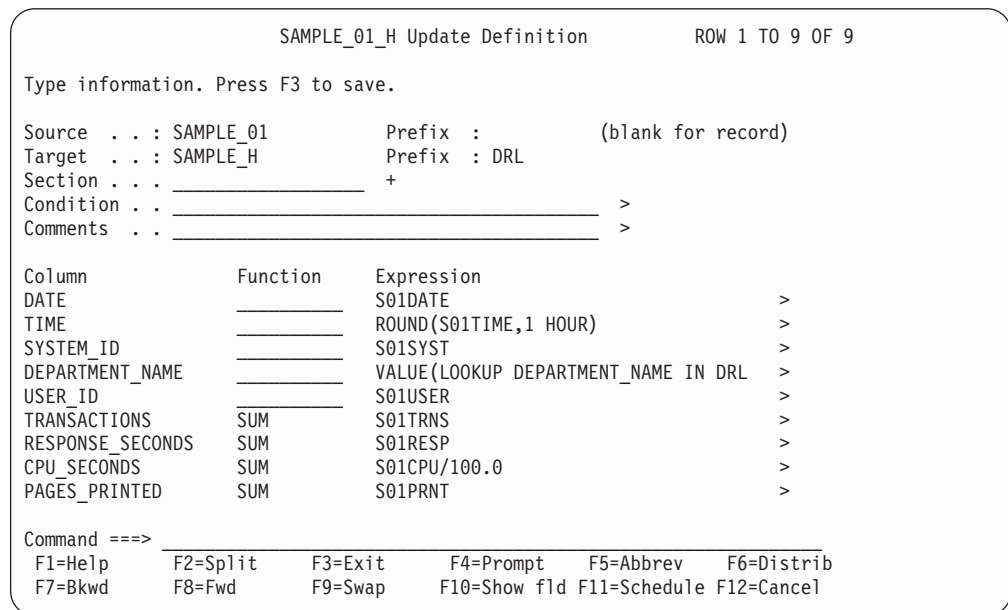


Figure 91. Update Definition window

Complete these fields in the window:

- Section** The name of a repeated section in a source record.
 If the source is a record, you can type the name of a repeated section in this field. Tivoli Decision Support for z/OS uses the update during collection to process each repeated section.
- Condition** A condition that is applied to source fields or columns.

Working with tables and update definitions

Type an expression that evaluates as either true or false in this field. Tivoli Decision Support for z/OS evaluates the expression to determine if it is true before processing the source with the update.

Comments	A description of the update definition.
Column	All columns of the target table.
Function	Describes the accumulation function to use. Blank means that the column is a key (a GROUP BY column). For data columns, the value of this field can be SUM, MIN, MAX, COUNT, FIRST, LAST, AVG, and PERCENT. To use the MERGE function, identify input to the function by designating a column for each of these functions: INTTYPE, START, END, and QUIET.
Expression	Describes how the value in the column should be derived from source fields, columns, or abbreviated names of expressions. (See “Working with abbreviations” on page 255 for more information.) If the update does not affect the value of the column, there is no entry in the expression field. For an AVG column, type the expression, followed by a comma, and a column name. For a PERCENT column, type the expression, followed by a comma, a column name, a comma, and a percentile value (without the percent sign).

Refer to the *Language Guide and Reference* for more information about using log collector language:

- Functions
- Accumulation functions
- Expressions
- Statements
- Averages
- Percentiles

3. Type any modifications to the update definition in the fields.
4. Press F5 to modify abbreviations in this update definition.
The Abbreviations window is displayed. See “Working with abbreviations” on page 255, for more information.
5. Press F6 to modify the distribution clause associated with the update definition.
The Distribution window is displayed. See “Modifying a distribution clause” on page 256 for more information.
6. Press F11 to modify the apply schedule clause associated with an update definition.
The Apply Schedule window is displayed. See “Modifying an apply schedule clause” on page 256 for more information.
7. Press F3 when you finish modifying the update definition.
The changes are saved and you are returned to the Update Definitions window.
8. Repeat this procedure to modify other update definitions or press F3 again to return to the Tables window.

Working with abbreviations

You can use abbreviations to give names to long expressions that are used several times. Using abbreviations improves Tivoli Decision Support for z/OS performance because expressions are evaluated only once.

Defining abbreviations with the administration dialog is equivalent to using the LET clause in a log collector DEFINE UPDATE statement to assign an expression to a variable name. (Refer to the description of the “DEFINE UPDATE” statement in the *Language Guide and Reference* for more information.)

To modify an abbreviation:

1. From the Update Definition window (Figure 91 on page 253), press F5.
The Abbreviations window is displayed (Figure 92).

The screenshot shows a terminal window titled "Abbreviations" with "ROW 1 TO 3 OF 3" in the top right. The main text says "Modify expressions if required. Press F3 to save and return." Below this is a table with two columns: "Abbreviation" and "Expression". The table contains three rows: TS1 with expression "TIMESTAMP(SMF70DAT,SMF70IST)+(SMF70INT", D1 with "DATE(TS1)", and T1 with "TIME(TS1)". To the right of each expression is a right-pointing chevron (>). Below the table is a line of asterisks and the text "BOTTOM OF DATA". At the bottom, there is a "Command ==>" prompt and a grid of function key shortcuts: F1=Help, F2=Split, F3=Exit, F5=Add abbr, F7=Bkwd, F8=Fwd, F9=Swap, F10=Show fld, F11=Delete, and F12=Cancel.

Abbreviation	Expression
TS1	TIMESTAMP(SMF70DAT,SMF70IST)+(SMF70INT
D1	DATE(TS1)
T1	TIME(TS1)

Command ==>

F1=Help	F2=Split	F3=Exit	F5=Add abbr	F7=Bkwd
F8=Fwd	F9=Swap	F10=Show fld	F11=Delete	F12=Cancel

Figure 92. Abbreviations window

2. Type modifications in the fields and press Enter.
The changes are saved and you are returned to the Update Definition window.

To add an abbreviation to an update definition:

1. From the Abbreviations window, press F5.
The Abbreviation window is displayed.
2. Type the abbreviation and the expression in the fields and press Enter.
The abbreviation is added and you are returned to the Abbreviations window.

To delete an abbreviation from an update definition:

1. From the Abbreviations window, select the abbreviation to delete, and press F11.
The abbreviation is deleted from the list.

Modifying a distribution clause

The distribution clause of an update definition specifies that source fields or columns are distributed over a time period. It can be used when you have a record that contains data for a long time period and you do not want all values to be summarized at the start or end time.

To modify the distribution clause associated with an update definition:

1. From the Update Definition window (Figure 91 on page 253), press F6. The Distribution window is displayed (Figure 93).

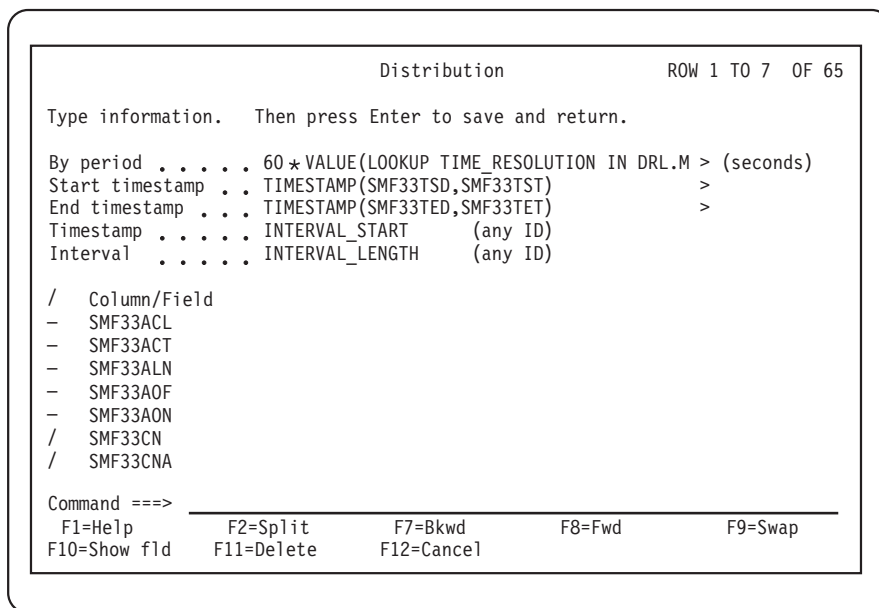


Figure 93. Distribution window

2. Type modifications in the fields and press Enter. The changes are saved and you are returned to the Update Definition window.

Modifying an apply schedule clause

Tivoli Decision Support for z/OS uses the apply schedule clause of an update definition in calculating availability. The clause specifies how Tivoli Decision Support for z/OS should merge schedule information in control tables (see “Control tables” on page 307) with detailed availability information.

To modify the apply schedule clause associated with an update definition:

1. From the Update Definition window (Figure 91 on page 253), press F11. The Apply Schedule window is displayed (Figure 94 on page 257).

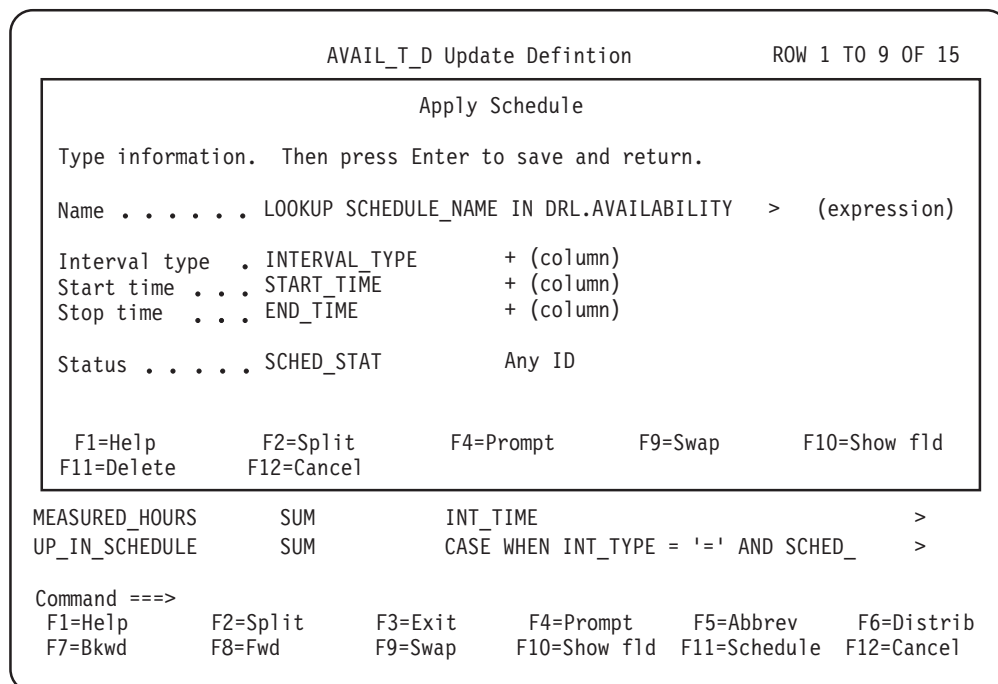


Figure 94. Apply Schedule window

2. Type modifications in the fields and press Enter.

The changes are saved and you are returned to the Update Definition window.

Refer to the *Language Guide and Reference* for more information about using the log collector language to:

- Determine resource availability
- Calculate the actual availability of a resource
- Compare actual availability to scheduled availability

Displaying and editing the purge condition of a table

Tivoli Decision Support for z/OS uses purge conditions to specify when old data should be purged from tables. A table can have only one purge condition. Purge conditions are supplied for all data tables. You can use the administration dialog to modify the purge condition of a table.

The administrative report PRA003 produces a complete list of all current Tivoli Decision Support for z/OS purge definitions. For more information about this report, see “PRA003 - Table purge condition” on page 348.

To display and edit the purge condition of a table:

1. From the Tables window (Figure 74 on page 234), select the table to update and press F6.

The Retention Period window is displayed (Figure 95 on page 258) if the purge condition is blank or has the standard format (column_name < CURRENT DATE - n DAYS), and if the column name, which can be an expression (for example, DATE(START_TIMESTAMP)), is less than 18 characters.

Working with tables and update definitions

```

Tablespace Utilities Other Help
-----
1. New... F5
2. Open... Enter
3. Delete...
4. Save definition...
5. Print List...
6. Exit
-----
ces in SVTDB database Row 1 to 20 of 234
ess Enter to open a tablespace definition.
-----
ondary Storage grp Type Locksize
20 SVTSG SEGMENTED TABLE
--- DRLSCI01 60000 30000 SVTSG SEGMENTED TABLE
--- DRLSCI02 60000 30000 SVTSG SEGMENTED TABLE
--- DRLSCI03 60000 30000 SVTSG SEGMENTED TABLE
--- DRLSCI04 40000 20000 SVTSG SEGMENTED TABLE
.
.
--- DRLSIMST 100000 50000 SVTSG SEGMENTED TABLE
--- DRLSIMSY 100000 50000 SVTSG SEGMENTED TABLE
--- DRLSINFO 600 300 SVTSG SEGMENTED TABLE
--- DRLSMAA 60000 30000 SVTSG SEGMENTED TABLE

Command ==>
F1=Help F2=Split F3=Exit F5=New F7=Bkwd F8=Fwd
F9=Swap F10=Actions F12=Cancel

```

Figure 97. Tablespaces window

You can use the Save definition option to create SQL commands that can recreate the selected tablespace. Note that this does not update the component definition: only the definition of the selected tablespace is saved.

3. Select a tablespace and press Enter. You see the window in Figure 98, which you can use to change the tablespace parameters: change the parameters and press Enter.

```

Tablespace DRLSCI06
Type information. Then press Enter to save and return.

Type . . . . . : 2 1.Simple
                  2.Segmented
                  3.Partitioned

Storage group . . . . . SVTSG VCAT . . . _____
Primary quantity . . 20000
Secondary quantity 10000
Erase . . . . . 2 1. Yes
                  2. No

Locksize . . . . . 4 1. Any
                  2. Tablespace
                  3. Page
                  4. Table

Close . . . . . 1 1. Yes Compress ___ 1. Yes
                  2. No 2. No

Bufferpool . . . . . BP0 Dsetpass . . . . . _____
Freepage . . . . . 0 Segment size . . . . . : 8
Pctfree . . . . . 5 Number of partitions . . : 0

F1=Help F2=Split F5=Tables F6=Parts F7=Bkwd F8=Fwd
F9=Swap F12=Cancel

```

Figure 98. Tablespace window

Tivoli Decision Support for z/OS takes action depending on the parameters to be changed:

Where reorganization is needed

Some parameter changes need a database reorganization before they take effect. Here, Tivoli Decision Support for z/OS:

- a. Makes the change, using ALTER TABLESPACE.
- b. Creates a batch job to reorganize the database, which you can submit when it is convenient.

Where the database needs to be stopped

Some parameter changes need exclusive use of the database. Here, Tivoli Decision Support for z/OS creates a batch job that:

- a. Stops the database.
- b. Makes the change, using ALTER TABLESPACE.
- c. Starts the database again.

Do not submit the job if some task, for example a collect, is using the tablespace, because this stops the collect job.

In other cases

Some parameter changes can be made immediately. Tivoli Decision Support for z/OS issues the ALTER TABLESPACE command online.

Press F1 to get more information about a parameter, or refer to the discussion of designing a database in *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

To make a change to an indexspace:

1. From the Tables window (Figure 74 on page 234), select the Maintenance pull-down. Do not select a table first.
2. To change indexspace parameters, select 2. You see the window in Figure 99 (with the Index pull-down illustrating the options available: you can use the Utilities pull-down to reorganize an indexspace).

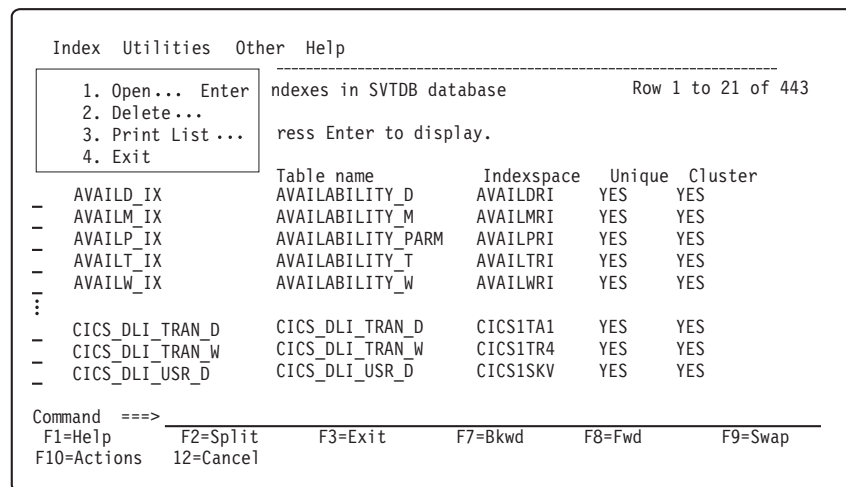


Figure 99. Indexes window

3. Select an indexspace and press Enter. You see the window in Figure 100 on page 262, which you can use to change the indexspace parameters: change the parameters and press Enter.

Working with tables and update definitions

```
Index CICS_A_DLI_USR_W
Press Enter to save and return.

Table name . . . . . : CICS_A_DLI_USR_W
Indexspace name . . . : CICS1S60

Storage group . . . . . SVTSG          VCAT . . . . . _____
Primary quantity . . 20000          Unique . . . . . 1 1. Yes
Secondary quantity 10000          2. No
Erase . . . . . 2 1. Yes          Cluster . . . . . 1 1. Yes
2. No                             2. No
Close . . . . . 1 1. Yes          Part . . . . . 2 1. Yes
2. No                             2. No

Subpages . . . . . 4                Pctfree . . . . . 10
Bufferpool . . . . . BP0            Dsetpass . . . . . _____
Freepage . . . . . 0

F1=Help    F2=Split    F5=Columns  F6=Parts    F7=Bkwd    F8=Fwd
F9=Swap    F12=Cancel
```

Figure 100. Index window

Tivoli Decision Support for z/OS takes action depending on the parameters to be changed:

Where the index must be recreated

Here, Tivoli Decision Support for z/OS:

- a. Asks you to confirm the change.
- b. Deletes the index, with the DROP command.
- c. Redefines the index, using the DEFINE command.

Where the database needs to be stopped

Some parameter changes need exclusive use of the database. Here, Tivoli Decision Support for z/OS creates a batch job that:

- a. Stops the database.
- b. Makes the change, using the ALTER command.
- c. Starts the database again.

Do not submit the job if some task, for example a collect, is using the indexspace, because this stops the collect job.

In other cases

Some parameter changes can be made immediately. Tivoli Decision Support for z/OS issues the ALTER command online.

Press F1 to get more information about a parameter, or refer to the discussion of designing a database in *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

If you want just to make tablespace parameter changes that do not require offline or batch action, you can use this alternative method:

1. From the Tables window (Figure 74 on page 234), select a table in the tablespace to open.
2. Select 5, Open tablespace, from the Table pull-down.

Tivoli Decision Support for z/OS displays the Tablespace window (Figure 101 on page 263).

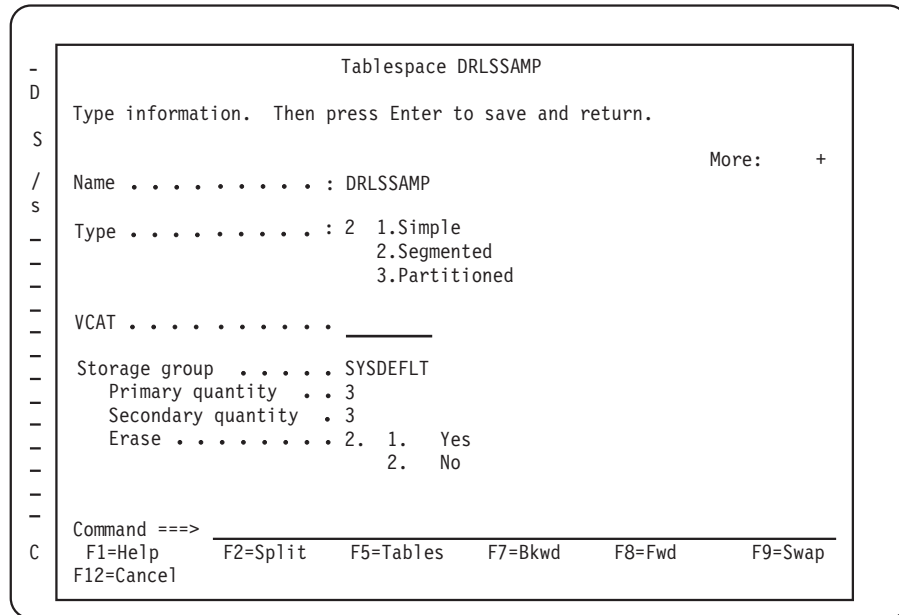


Figure 101. Tablespace window

3. Type any changes in the fields.

Note: You can scroll the window to display more options.

4. Press F5 to see a list of tables in the tablespace.

The Tables window is displayed.

5. Press Enter when you finish viewing this window.

You are returned to the Tablespace window.

6. Press Enter.

The changes to the tablespace are saved and you are returned to the Tables window.

Displaying a view definition

You can use the administration dialog to display a view definition created with SQL statements.

To display the view definition:

1. From the Tables window, select a view to display, and press Enter.

The View window is displayed (Figure 102 on page 264).

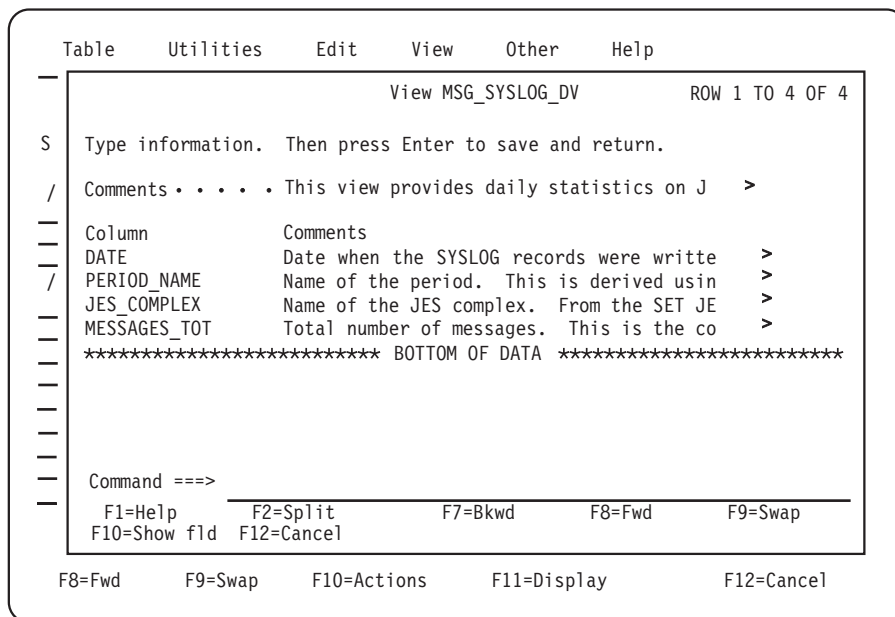


Figure 102. View window

2. You can change any of the comments in a view definition. To change a comment, type the text in the Comments field.
3. Press Enter when you finish displaying the view definition.
The changes are saved and you are returned to the Tables window.

Printing a list of Tivoli Decision Support for z/OS tables

Tivoli Decision Support for z/OS maintains a list of all tables in the Tivoli Decision Support for z/OS database. You can use the administration dialog to print a list of the tables in the Tivoli Decision Support for z/OS database.

To print a list of Tivoli Decision Support for z/OS tables:

1. From the Table pull-down in the Tables window (Figure 74 on page 234), select 8, Print list.
The Print Options window is displayed.
2. Type the required information, and press Enter.
The list of Tivoli Decision Support for z/OS tables is routed to the destination you specified.

Saving a table definition in a data set

Each table in the Tivoli Decision Support for z/OS database is defined using SQL. You can use the administration dialog to save the SQL table definition statement in a data set.

To save a table definition statement in a data set:

1. From the Tables window (Figure 74 on page 234), select the table definition to save in a data set.
2. Select 7, Save definition, from the Table pull-down.
The Save Data Set window is displayed.
3. Type the data set name in the field, and press Enter.

The table definition in the data set that you specified is saved and you are returned to the Tables window.

Listing a subset of tables in the Tables window

When you select 4, Tables, from the Administration window, all tables in the Tivoli Decision Support for z/OS database are listed in the Tables window. You can use the administration dialog to list only a subset of tables in the Tivoli Decision Support for z/OS database in the Tables window.

To specify which tables should appear in the Tables window:

1. From the View pull-down in the Tables window (Figure 74 on page 234), select 2, Some, and press Enter.

Tivoli Decision Support for z/OS displays the Select Table window.

2. Type selection criteria in the fields, and press Enter.

Note: You can see a list of components by pressing F4.

The tables that correspond to the criteria you specified are listed.

To list all the tables, from the View pull-down in the Tables window, select 1, All. All the tables in the Tivoli Decision Support for z/OS database are listed.

Creating a table

Tivoli Decision Support for z/OS stores data collected from logs in DB2 tables. Each component includes table definitions for tables that it uses. However, you might need to create additional tables.

You can use the administration dialog to create a table. You should have a working knowledge of DB2 databases before attempting to create a table. Refer to the DB2 documentation for more information.

Note: Views cannot be created from the Tivoli Decision Support for z/OS administration dialog. Refer to the DB2 documentation for a description of how to create views using SQL.

To create a table:

1. From the Table pull-down in the Tables window (Figure 74 on page 234), select 1, New, and press Enter.
The New Table window is displayed (Figure 103 on page 266).
2. Type required information in the fields.
3. To see a list of available tablespaces, place the cursor in the Tablespace field, and press F4.

The Prompt for Tablespace window is displayed. If the table is related to existing tables, you might want to put the table in the same tablespace.

4. Select a tablespace from the list, and press Enter.

Tivoli Decision Support for z/OS returns to the New Table window, and the tablespace appears in the Tablespace field.

Note: To create a tablespace, see “Creating a tablespace” on page 267.

5. Press F5 to add a column to the table.

Tivoli Decision Support for z/OS displays the Add Column window (Figure 86 on page 250).

Working with tables and update definitions

```

New Table

Type information. Then press F5 to add columns. To select an already
added column, press Enter.

Table name . . . _____ Prefix . . . . DRL
Database . . . DRLDB          Tablespace . . _____ +
Comments . . . _____ >

/ Column          Type          Length Nulls Primary Key
*****
***** BOTTOM OF DATA *****

Command ==> _____
F1=Help      F2=Split   F3=Exit    F4=Prompt  F5=Add col  F6=Indexes
F7=Bkwd     F8=Fwd     F9=Swap    F10=Show fld F11=Delete  F12=Cancel

```

Figure 103. New Table window

6. Type the required information in the fields, and press Enter.
You are returned to the Add Column window.
7. When you finish adding columns to the table, press F12.
You are returned to the New Table window.
8. Press F6 to add indexes to the table.
The Indexes window is displayed (Figure 87 on page 251).
9. Press F5 to add an index.
The Add Index window is displayed (Figure 89 on page 252).
10. Type the required information in the fields, and press Enter.
The index is added and you are returned to the Indexes window.
11. Press F3 to return to the New Table window.
12. Press F3 when you finish typing information.
The table is added to the database and you are returned to the Tables window.

You can also create a table by using an existing table as a template.

To create a table by using an existing table as a template:

1. From the Tables window, select the table to use as a template.
2. Select 1, New, from the Table pull-down.
The New Table window is displayed.

Note: The fields are filled with information from the template table.

3. The rest of the procedure is the same as when creating a table without a template.

Note: The index for the template table is not copied and must be added for the primary key. To add an index, see “Displaying and adding a table index” on page 250.

You can use the administration dialog to delete a column from a table you are defining. To delete a column:

1. From the New Table window, select an existing column.
2. Press F11 to delete the column.
A confirmation window is displayed.
3. Verify the deletion by pressing Enter.
The column is deleted and you are returned to the New Table window.

Deleting a table or view

To delete a table or view:

1. Select the table or view to delete in the Tables window (Figure 74 on page 234) and select 6, Delete, from the Table pull-down.

Note: Tivoli Decision Support for z/OS prevents you from deleting table definitions that affect, or are affected by, other Tivoli Decision Support for z/OS objects. To delete a table definition, remove links from the table to other Tivoli Decision Support for z/OS objects.

A confirmation window is displayed.

2. Verify the deletion by pressing Enter.
The table or view is deleted and you are returned to the Tables window.

Note: A table in a partitioned tablespace cannot be explicitly deleted (dropped). You can drop the tablespace that contains it. This does not have any impact on other tables because only one table can be defined in a single tablespace.

Creating a tablespace

DB2 tables are in tablespaces. For a new table, you might need to create a tablespace.

You can use the administration dialog to create a tablespace. You must have some knowledge of DB2 databases before creating the tablespace. See “Understanding tablespaces” on page 150 for more information about tablespaces, or refer to the discussion of designing a database in *DB2 Universal Database for OS/390 and z/OS: Administration Guide and Reference*.

To create a tablespace:

1. From the New Table window (Figure 103 on page 266), place the cursor in the Tablespace field and press F4.
The Prompt for Tablespace window is displayed.
2. From the Prompt for Tablespace window, press F5.
The New Tablespace window is displayed.
3. Type required information in the fields, and press Enter.
A tablespace is created and you are returned to the Prompt for Tablespace window.
4. Press Enter again to return to the New Table window.
5. Continue creating the table as described in “Creating a table” on page 265.

Note: It is also possible to create a tablespace without creating a table: use the Maintenance pull-down in the Tables window (as described in “Displaying and modifying a table or indexspace” on page 259) and select New from the Tablespace pull-down in the Tablespaces window.

Creating an update definition

In Tivoli Decision Support for z/OS, update definitions specify how to store data from log records in DB2 tables and how to use data from one table to update another. Each component includes all the update definitions that it uses. However, if you tailor the objects used during a collect, or create components of your own, you might need to create more update definitions.

You can use the administration dialog to create an update definition. You can also use log collector language. Refer to the *Language Guide and Reference* for more information about defining update definitions using log collector language.

To create an update definition:

1. From the Tables window (Figure 74 on page 234), select a table for addition of an update definition, and press F5.

The Update Definitions window is displayed (Figure 90 on page 253).

2. To use an existing update definition as a template, select one of the update definitions from the list and press F5. Otherwise, do not select an update definition.

The New Update Definition window is displayed. The columns are filled with values from the template.

3. To create an update definition without a template, press F5 from the Update Definitions window.

You are prompted for the name of the target table in the Target Table of New Update window. Type the name of the target table, and press Enter.

The New Update Definition window is displayed.

4. Type required information in the fields, and press F3.

The new update definition is saved and you are returned to the Update Definitions window.

You might choose to use abbreviations for expressions in the expression fields. Or you might require that data be distributed over some interval or used in availability processing. See these topics in “Displaying and modifying update definitions of a table” for information:

- “Working with abbreviations” on page 255
- “Modifying a distribution clause” on page 256
- “Modifying an apply schedule clause” on page 256

5. Press F3 again to return to the Tables window.

Deleting an update definition

Update definitions are supplied for all data tables. You can use the administration dialog to delete an update definition you no longer need. Tivoli Decision Support for z/OS removes all references to the update from its system tables. However, it does not delete the definition member; you can use the dialog to reinstall it.

To delete an update definition of a table:

1. From the Tables window (Figure 74 on page 234), select the table and press F5.

The Update Definitions window for the table is displayed (Figure 90 on page 253). All update definitions where the selected table is either the source or the target are included.

2. Select the update definition to delete, and press F11.

A confirmation window is displayed.

3. Verify the deletion by pressing Enter.
The definition is updated and you are returned to the Update Definitions window.
4. Press F3 to return to the Tables window.

Administering user access to tables

When you install a component, Tivoli Decision Support for z/OS grants read access to the users or groups you have specified in dialog parameters (the default is the DRLUSER group). You can use the administration dialog to grant or revoke table access to other Tivoli Decision Support for z/OS users.

To grant table access to other users:

1. From the Tables window (Figure 74 on page 234), select one or more tables to grant access to.
2. Select 5, Grant, from the Utilities pull-down.
The Grant Privilege window is displayed (Figure 104).

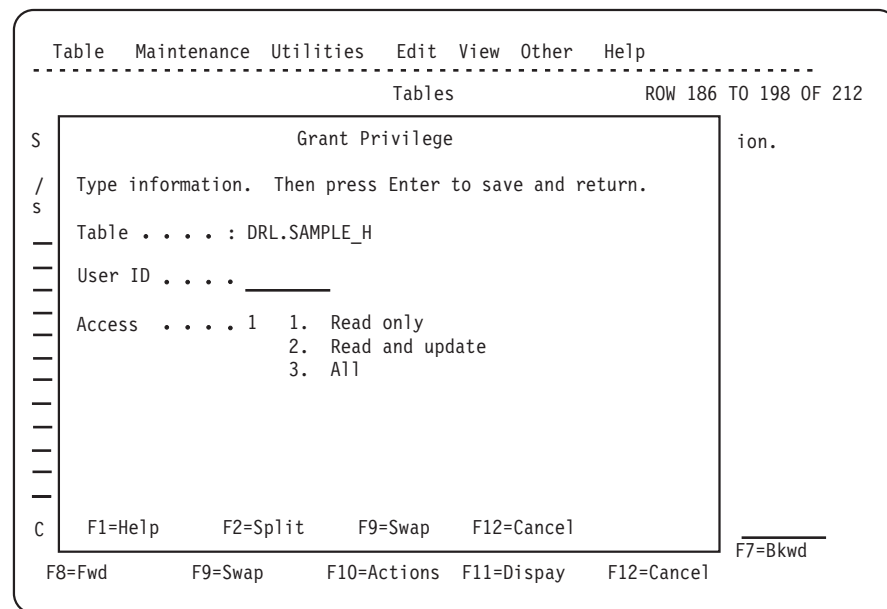


Figure 104. Grant Privilege window

3. Type required information in the fields, and press Enter.
The user ID is granted access to the table.
4. When you finish granting access to the table, press F12.
If you selected more than one table, the Grant Privilege window for the next table is displayed. When you complete the Grant Privilege window for the last table, you are returned to the Tables window.

To revoke table access:

1. From the Tables window (Figure 74 on page 234), select one or more tables to revoke access to.
2. Select 6, Revoke, from the Utilities pull-down.
The Revoke Privilege window (Figure 105 on page 270).

Working with tables and update definitions

```
Revoke Privilege                                ROW 1 TO 5 OF 5

Select one more user IDs. Then press Enter to execute.

 / User ID   Table                               Privilege Grantor
- DRL       DRL.SAMPLE_H                       DELETE   DRL
- DRL       DRL.SAMPLE_H                       UPDATE   DRL
- DRL       DRL.SAMPLE_H                       INSERT   DRL
- DRL       DRL.SAMPLE_H                       SELECT   DRL
- DRLUSER   DRL.SAMPLE_H                       SELECT   DRL

***** BOTTOM OF DATA *****

Command ==>
F1=Help   F2=Split   F7=Bkwd   F8=Fwd   F9=Swap   F12=Cancel
```

Figure 105. Revoke Privilege window

3. Select the user IDs with table access privileges to revoke, and press Enter.
The access privileges are revoked and you are returned to the Tables window.

Documenting a table

You can use the administration dialog to document a table in BookMaster, the same source format used for Chapter 16, “System tables and views” through Chapter 18, “Sample components.”

To document a table:

1. From the Tables window (Figure 74 on page 234), select tables to document.
2. Select 7, Document, from the Utilities pull-down.
The Document Data Set window is displayed.
3. Type the name of the data set in the field, and press Enter.
BookMaster documentation for the tables is generated and you are returned to the Tables window.

Chapter 15. Working with the log data manager option

This chapter contains information about the Tivoli Decision Support for z/OS log data manager option, which automates and simplifies the collection of data.

After providing a summary of the log data manager, this chapter then describes:

- How the log data manager is invoked from the administration dialog (page 271).
- The job for recording of log data sets for collection (page 272).
- Modifying log collector statements to be used in the collect (page 275).
- Modifying the list of log data sets to be collected (page 277).
- The collect job and the parameters it uses (page 280).
- Modifying the list of successfully collected log data sets (page 277).
- Modifying the list of unsuccessfully collected log data sets (page 286).

Summary of how the log data manager is used

You usually include a log data set for use with the log data manager by inserting a job step DRLELDML in the job that creates the log data set. The job step DRLELDML records the log data set as being ready to be collected by the log data manager collect job. You must run the job step DRLELDML for each log data set that you want to be collected.

The log data manager collect job DRLELDMC then performs the data collection and updates the database tables.

You can also use the Administration dialog windows to do the following:

- Amend the list of log data sets to be collected.
- Amend the list of the log data sets that were successfully or unsuccessfully collected.
- Amend the collect statements used in a collect.

Invoking the log data manager

To invoke the log data manager:

1. From the Administration Dialog window, select 3, Logs, to display the Logs window.
2. Select one of the displayed logs, then select 5, Open Log Data Manager (a new option provided with log data manager), from the Log pull-down. The log data manager Main Selection window (Figure 106 on page 272) is displayed.

Invoking the log data manager

```
DRLJLDML          Log Data Management of SMF logs
Select one of the following.  Then press Enter.

  1. Log collector statements
  2. Log data set to be collected
  3. Log data sets collected successfully
  4. Log data sets collected with failure

F1=Help  F2=Split  F9=Swap  F12=Cancel
```

Figure 106. Log Data Manager Main Selection window.

3. The Main Selection window gives you the possibility to:
 - Browse, add, delete and modify log collector statements.
 - Add, delete, and change the list of log data sets to be collected by the collect job.
 - List the log data sets that were collected successfully by the collect job.
 - List the log data sets that were collected unsuccessfully by the collect job.Each of these options is discussed in the sections of this chapter.

Job step for recording a log data set for collection

The job step DRLJLDML records a log data set as being ready to be collected. The collect job DRLJLDMC then performs the collection of this log data set (described in “The collect job and the parameters it uses” on page 280).

After job step DRLJLDML has successfully run, Tivoli Decision Support for z/OS will have created a record in system table DRLLDM_LOGDATASETS (described in “DRLLDM_LOGDATASETS” on page 293). You must run this job step for each log data set that you want to be collected by the log data manager. The list of log data sets to be collected can then be displayed, changed, or deleted, or a log data set added for collection (an alternative to using the DRLJLDML job), using the Log Data Sets To Be Collected window, described in “Listing and modifying the list of log data sets to be collected” on page 277.

Using the DRLJLDML job step

To use the DRLJLDML job step:

1. Ensure that your log data sets are cataloged (otherwise the DRLJLDML job step does not work).
2. Take a copy of the supplied sample DRLJLDML job step.
3. Insert the DRLJLDML job step in each job that creates a log data set, and which you want to be collected by the log data manager. For Generation Data Sets, you must insert the DRLJLDML job step after each Generation Data Set member that has been created.
4. Enter the name of the log data set (**.stepname.ddname*) in the DRLLOG DD statement of the job step (described in Figure 107 on page 273).
5. Run the job you have now amended, to create the log data set.

DRLJLDML sample job

This job is shipped with Tivoli Decision Support for z/OS as sample job DRLJLDML.

Job step for recording a log data set for collection

```

//DRLJLDML JOB (ACCT#),'LOGS'                                00010014
//*****                                                    00020000
//*                                                         * 00030000
//* Licensed Materials - Property of IBM                    * 00040000
//*                                                         * 00050000
//* 5698-B06 Copyright IBM Corporation 1995, 2009          * 00060000
//* See Copyright instructions.                             * 00070000
//*                                                         * 00080000
//*****                                                    00090000
//*                                                         * 00100000
//* Name: DRLJLDML                                         * 00110000
//*                                                         * 00120000
//* Status: Tivoli Decision Support for zOS 1.8.1          * 00130011
//*                                                         * 00140000
//* Function:                                              * 00150000
//* Log Data Manager - register a log data set sample job * 00160014
//*                                                         * 00170000
//* This job is used to register the log data set (only one) * 00180011
//* specified in DRLLLOG in the DRLLDM_LOGDATASETS as being ready * 00190000
//* for collect by the Log Data Manager.                   * 00191000
//*                                                         * 00192000
//* Input:                                                 * 00200000
//* The exec DRLELDML accepts the following parameters:    * 00280000
//*                                                         * 00290000
//* SYSPREFIX=xxxxxxx Prefix for system tables. default=DRLSYS * 00290100
//* PLAN=xxxxxxx DB2 plan name default=DRLPLAN * 00290200
//* SYSTEM=xxxxxxx DB2 subsystem name. default=DSN * 00290300
//* SHOWSQL=xxx Show SQL. YES/NO default=NO * 00290400
//* LOGTYPE=xxxxxxxxx Log type (e.g. SMF). Required. * 00290500
//* LOGID=xxxxxx Log ID. If not specified (or '='), a blank * 00290611
//* statement is used in collect. * 00290711
//* ONTAPE=N/Y Specify if the LOG name is on DASD or not. If * 00290811
//* not coded, it defaults to NO. *
//*                                                         * 00290900
//* DRLLLOG DD card: Name of log data set to be registered * 00291011
//* (can refer to a previous step). * 00291100
//* It must be cataloged. * 00291200
//*                                                         * 00291300
//* Output: Log data set name registered in * 00291411
//* sysprefix.DRLLDM_LOGDATASETS together * 00291500
//* with LOG_NAME, LOG_ID and TIME_ADDED. * 00291600
//* Confirmation message including data set name * 00292000
//*                                                         * 00650000
//* Notes: * 00660000
//* Before you submit the job, do the following: * 00670000
//* 1. Fill in a correct log data set name. * 00680012
//* 2. Check that the steplib db2loadlibrary is correct. * 00681012
//* 3. Change the input parameters to DRLELDML as required. * 00700013
//* 4. Change the DB2 load library name according to * 00270000
//* the naming convention of your installation. * 00260000
//* Default is 'db2loadlibrary'. * 00260000
//* 5. Change the TDSz high level qualifier. Default id 'DRLvrml'. * 00270000

```

Figure 107. DRLJLDML job (Part 1 of 2)

Job step for recording a log data set for collection

```

/**                                                    * 00720000
/** CHANGE ACTIVITY:                                  * 00730000
/**   00 1995-03-05 IW Created                        * 00740000
/**   01 1997-05-14 GL Added ONTAPE parameter to allow PQ06678 *
/**                                     the use of tape log names PQ06678 *
/**                                                    * 00770000
/**                                                    *
/** CHANGE ACTIVITY:                                  *
/** CHANGE FLAG  TYPE   DATE   DESCRIPTION            *
/** -----*
/** $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and *
/**                                     DB2 dataset names.          *
/** $D1=DCR116, TDS181,15/05/09,ADL(SM): Update TDS Version    *
/**                                                    *
/******* 00780000
//LDMLLOG EXEC PGM=IKJEFT01                            00790000
/**                                                    00800000
//SYSPROC DD DISP=SHR,DSN=DRLvrn.SDRLEXEC              00800111
//STEPLIB DD DISP=SHR,DSN=DRLvrn.SDRLLoad              00800211
//          DD DISP=SHR,DSN=db2loadlibrary              <-- 00810010
/******* 00870010
//* MESSAGES                                           00880000
/**                                                    00890000
//DRLOUT DD SYSOUT=*,DCB=(RECFM=F,LRECL=80)           00900009
/******* 00910010
//* LOG DATA SET                                       00920000
//*   DSN=*.stepname.ddname can be used                00930000
/**                                                    00930100
//DRLLLOG DD DISP=SHR,DSN=...                          <-- 00931010
/******* 00932010
//* START EXEC DRLELDML                                01210002
/**                                                    01220000
//SYSPRINT DD SYSOUT=*                                  01230000
//SYSPRINT DD SYSOUT=*                                  01240000
//SYSTEM DD *                                           01250000
%DRLELDML SYSTEM=DSN SYSPREFIX=DRLSYS                  - 01260007
LOGTYPE=SMF                                           - 01270000
LOGID=' ' ONTAPE=N
/**                                                    01340000

```

Figure 107. DRLJLDML job (Part 2 of 2)

Setting the parameters for job DRLJLDML

These are the rules for entering parameter values:

1. LOGTYPE is the only parameter that *must* be changed by you. The remaining parameters are optionally changed by you.
2. Blanks must not exist before or after an equal (=) sign.
3. Blanks must not exist within a parameter value.
4. A parameter value must not be enclosed in apostrophes.
5. A continuation mark (-) can be placed in any column.

These are the DRLJLDML job parameters:

Parameters	Values
SYSPREFIX	The prefix of all Tivoli Decision Support for z/OS system and control DB2 tables. If you do not specify a value here, the default DRLSYS is used.
SYSTEM	The DB2 subsystem. The default value is DSN.
PLAN	The name of the DB2 application plan. The default value is DRLPLAN.

Job step for recording a log data set for collection

SHOWSQL

When this value is set to YES, all executed SQL statements will be written to an output file. The default value is NO.

LOGTYPE, LOGID

Each combination of LOGTYPE and LOGID identifies the collect statements to be used by the collect job (which is run after this job):

- If you do not enter a value for LOGID, or if you enter two apostrophes with no blank between ("), the default collect statements for this LOGTYPE will be used for collecting the log data set.
- If you set LOGID to a user-defined value, the collect statements for the user-defined value will be used for this LOGTYPE, when collecting the log data set.
- Using different values of LOGID will produce more than one collect for a specific LOGTYPE. These collects will normally be run serially. However, you can run these collects in parallel by setting up your system accordingly.

Modifying log collector statements

In order to modify log collector statements, this section describes the following:

- “Listing the data sets containing collect statements”
- “Editing the collect statements”
- “Adding a log ID and collect statements data set” on page 277
- “Changing the collect statements data set name” on page 277

Listing the data sets containing collect statements

To list the log collector statements used with a log type, select 1, Log collector statements, from the log data manager Main Selection window. The Collect Statements window (Figure 108) is displayed, one row for each log ID defined for the log type. When a default row is created during installation of a Tivoli Decision Support for z/OS component, the field log ID is always blank.

```
DRDLDMDS      Log Data Manager Collect Statements for SMF

Select a Log ID. Then press Enter to edit the collect statement

/  Log ID      Collect statement data set
s                                DRLxxx.SDRLDEFS(DRLBSMF)
-  MVSA        DRLxxx.LOCAL.DEFS(MVSACOLL)
-  MVSB        DRLxxx.LOCAL.DEFS(MVSBCOLL)
-  MVSX        DRLxxx.LOCAL.DEFS(MVSCOLL)
-  MVS1        DRLxxx.LOCAL.DEFS(MVSICOLL)
-  SYS1        DRLxxx.LOCAL.DEFS(SYSICOLL)

Command ==>
F1=Help   F2=Split  F3=Exit   F5=Add    F6=Modify  F7=Bkwd   F8=Fwd
F9=Swap   F11=Delete F12=Cancel
```

Figure 108. Collect Statements window

Editing the collect statements

To edit (default action) the collect statements for a log ID:

Modifying log collector statements

1. Select the log ID whose collect statements you want to edit, and press Enter. The Edit window (Figure 109) is displayed.
2. Edit the collect statements using the ISPF editor. If the member does not exist, it will be automatically created by the edit. If the collect statements data set does not exist or is not cataloged, an error message is displayed. A confirmation window is displayed if a member of the Tivoli Decision Support for z/OS definition library is selected for editing. If you want to edit collect statements that reside in the Tivoli Decision Support for z/OS distribution library, follow the instructions given in “Modifying Tivoli Decision Support for z/OS-supplied collect statements.”
3. On completion of the editing, you are returned to the Log Data Manager Collect Statements window.

Note: The COMMIT AFTER BUFFER FULL ONLY parameter will not be accepted in the collect statement member if the collect involves concatenated log data sets (an appropriate error message is displayed). The reason is that such concatenated data sets are never recorded in the DRLLOGDATASETS system table as being collected.

```
EDIT ---- DRLxxx.SDRLDEFS(DRLBSMF)----- COLUMNS 0
***** TOP OF DATA *****
000001 COLLECT SMF;
***** BOTTOM OF DATA *****

COMMAND ==>                                SCROLL ==
F1=Help   F2=Split   F3=Exit   F5=Rfind   F6=Rchange  F7=Up
F8=Down   F9=Swap    F10=Left  F11=Right  F12=Cancel
```

Figure 109. Edit collect statements window

Modifying Tivoli Decision Support for z/OS-supplied collect statements

Not all the components have a default collect statement supplied by the product. You must modify the collect statements for these log types to use with these components. You might also want to modify other Tivoli Decision Support for z/OS-supplied collect statements. In all cases, a warning is displayed if you attempt to edit a collect statement member that resides in the Tivoli Decision Support for z/OS distribution library.

Note: Any modifications you make to Tivoli Decision Support for z/OS-supplied collect statements are lost if a PTF or new release updates the member containing the collect statements.

To modify a Tivoli Decision Support for z/OS-supplied collect statement member:

1. Copy the member containing the collect statements to your local library.
2. Use option F6=Modify of the Log Data Manager Collect Statements window to change the data set name of the default log ID (see “Modifying log collector statements” on page 275 for details).
3. Edit the collect statements member as you require.

Adding a log ID and collect statements data set

To add a log ID and data set name to the list:

1. Press F5 and the Add Collect Statements Definition window is displayed (Figure 110).
2. Type a log ID and data set name and press Enter. The log ID and data set name are added to the Log Data Manager Collect Statements list in alphanumeric sequence. However, a non-existent data set is not created.

Figure 110. Add Collect Statements Definition window

Changing the collect statements data set name

To change the name of a collect statements data set:

1. Select the log ID corresponding to the data set name which you want to modify, and press F6. The Modify Collect Statements Definition window is displayed (Figure 111).
2. Type the modified data set name and press Enter. The data set name is changed in the Log Data Manager Collect Statements list.

Figure 111. Modify Collect Statements Definition window

Listing and modifying the list of log data sets to be collected

In order to list and modify the list of log data sets to be collected, this section describes the following:

- “Listing the log data sets to be collected” on page 278
- “Modifying the log ID for a log data set” on page 278
- “Deleting information about a log data set” on page 279
- “Recording a log data set to be collected again” on page 279
- “Adding a log data set to be collected” on page 279

Modifying log collector statements

Listing the log data sets to be collected

To list the log data sets to be collected, select 2, Log data sets to be collected, from the log data manager Main Selection window. The Log Data Sets To Be Collected window (Figure 112) is displayed, one row for each log ID and log data set.

Each list of log data sets are sorted firstly by log ID, and then by the date the log data set was added.

Each log data set displayed in this window has a value in the Status column, which can contain one of these values:

- blank

The log data set is ready to be collected by the DRLMLDMC job (see “The collect job and the parameters it uses” on page 280 for details).

- 'SELECT'

This value occurs when the log data set has been selected for collect by the DRLMLDMC job, but the collect has not completed. The data set is protected from a collect by a “parallel” invocation of the DRLMLDMC job. If DRLMLDMC job abends, the action you take depends upon how many log data sets have the status SELECT after the abend has occurred:

- If there are many log data sets with status SELECT, run job DRLELDMC with parameter CLEANUP=YES, to record the log data sets as ready for collection again.
- If there are only a few log data sets with status SELECT, it is easier to manually record the data sets as ready for collection again by selecting F4=Rerun for these log data sets.

- A log collector return code or a system or user abend code

This occurs when the log data set was collected with failure, and the Rerun option was selected for this log data set in the Log Data Sets Collected with Failure window (described in “Modifying the list of unsuccessfully collected log data sets” on page 286). The data set is collected again the next time DRLELDMC is run.

```
DRLDLDMT      SMF Log Data Sets To Be Collected

Select a data set. Then press Enter to modify Log ID.

/  Log ID      Log data set                Time added      Status
-  MWSA       SYS170.SMFLOG.SLOG9501222   2004-11-22.13
s  MWSB       SYS170.SMFLOGA.SLOG950122   2004-11-21.23   SELECT
-  MWSX       SYS170.SMFLOGB.SLOG950122   2004-11-22.01
-  MVS1       SYS170.SMFLOGX.SLOG950122   2004-11-22.01
-  MVS2       SYS170.SMFLOG1.SLOG02       2004-11-21.23   8
-  SYS1       SYS170.SMFLOG.MVS2.SLOG01   2004-11-21.10   U0005
-  SYS1       SYS170.SMFLOG.SYS1.SLOG01   2004-11-18.10   20

Command ====>
F1=Help   F2=Split  F3=Exit   F4=Rerun  F5=Add    F7=Bkwd   F8=Fwd
F9=Swap   F11=Delete F12=Cancel
```

Figure 112. SMF Log Data Sets To Be Collected window

Modifying the log ID for a log data set

To modify the log ID (the default action) to be used with a log data set:

1. Select the log ID and press Enter. The Modify Log ID for a Log Data Set window is displayed (Figure 113 on page 279).

2. Type the modified log ID and press Enter. The log ID is then changed in the Log Data Sets To Be Collected list.

Note: You can also use this window to display the full length of a truncated log data set name. Data set names longer than 34 characters are truncated in the Log Data Sets To Be Collected window, but are displayed in full in the Modify Log ID for a Log Data Set window.

```
DRDLDDMM   Modify Log ID for a SMF Log Data Set

Type Log ID.  Then press Enter to save.

Log ID      MUSA   (blank for default collect statements)
Data set    SYS150.SMFLOGA.SLOG950122

F1=Help    F2=Split   F9=Swap    F12=Cancel
```

Figure 113. Modify Log ID For a Log Data Set window.

Deleting information about a log data set

To delete an entry from the Log Data Sets To Be Collected window:

1. Select the log ID and log data set and press F11.
2. Press Enter to confirm deletion.

Recording a log data set to be collected again

A log data set can be recorded for collection again if it has the value SELECT in the Status column, caused by the collect job abending and as a result, the log data set still having the value SELECT in the Status column.

After the log data set has been recorded for collection again, it is included in the next collect job (described in “The collect job and the parameters it uses” on page 280).

To record a log data set to be collected again:

1. Select the log ID and log data set and press F4.
2. Press Enter to confirm.

Adding a log data set to be collected

To add an entry to the Log Data Sets To Be Collected list:

1. Press F5 and the Add a Data Set To Be Collected window is displayed (Figure 114 on page 280).
2. Type the log ID and log data set name and press Enter. The Log Data Sets To Be Collected window is displayed, containing the added entry.

Modifying log collector statements

```
DRLLDMN   Add a SMF Data Set To Be Collected

Type information.  Then press Enter to save.

Log ID      _____ (blank for default collect statements)
Data set name _____

F1=Help    F2=Split    F9=Swap    F12=Cancel
```

Figure 114. Add a Data Set To Be Collected window

An error message is displayed in this window if you attempt to add an already existing log data set.

The collect job and the parameters it uses

The job DRLJLDMC is used to collect log data sets that are recorded as being ready for collection. A system table (described in “DRLLDM_COLLECTSTMT” on page 292) is used to identify the data set containing the collect statements to be used for the collect.

Log data sets are recorded as ready for collection either by running the job DRLJLDMC (see “Job step for recording a log data set for collection” on page 272 for details), or by using the Log Data Sets To Be Collected window (see “Listing and modifying the list of log data sets to be collected” on page 277 for details).

Deciding which log data sets to collect

Using the two parameters LOGTYPE and LOGID you specify which log data sets you want to collect. If you omit both parameters, all log data sets that are ready to be collected are collected. If, however, you decide to enter values for LOGTYPE and LOGID, a subset only of the log data sets belonging to the specified log type is collected.

Concatenation of log data sets

Each time you run the DRLELDMC EXEC, all log data sets corresponding to the values you enter for LOGTYPE and LOGID are serially collected. The log collector function is used only once for all log data sets of the same log type and log ID. Log data sets are added to the log collector file DRLLOG in the *order in which they were recorded by the Log Data Manager*. As a result, the log collector output files DRLOUT and DRLDUMP may contain the output from many log data sets.

You should also note that if the collect of such a concatenated log data set fails after one or more log data sets have been successfully collected, the remaining log data sets in the concatenation are not collected. You must then rerun the DRLJLDMC collect job, to collect these remaining log data sets.

Running collect jobs in parallel

If you do not specify the LOGID and/or the LOGTYPE parameters, the DRLELDMC EXEC calls the log collector and run the collect job each time a combination of log type and log ID is processed. If you want to decrease the total elapsed time of these collects, you can run DRLJLDMC collect jobs in parallel. However, you should not run jobs with the same LOGTYPE in parallel.

DRLELDMC sample job

This job is shipped with Tivoli Decision Support for z/OS as sample job DRLJLDMC.

```
//DRLJLDMC JOB (ACCT#),'COLLECT'                                00010000
//*****                                                    00020000
//*                                                    * 00030000
//* Licensed Materials - Property of IBM                    * 00040000
//*                                                    * 00050000
//* 5698-B06 Copyright IBM Corporation 2003, 2009          * 00060001
//* See Copyright instructions.                             * 00070000
//*                                                    * 00080000
//*****                                                    00090000
//*                                                    * 00100000
//* Name: DRLJLDMC                                          * 00110000
//*                                                    * 00120000
//* Status: Tivoli Decision Support for zOS 1.8.1          * 00130001
//*                                                    * 00140000
//* Function:                                              * 00150000
//*   Log Data Manager Collect Log Data Sets sample job   * 00160000
//*                                                    * 00170000
//*   This job is used to collect log data sets that are recorded * 00180000
//*   in the DRLLDM_LOGDATASETS system table as being ready for * 00190000
//*   collect by the Log Data Manager.                     * 00191000
//*                                                    * 00192000
//* Input:                                                 * 00193000
//*   The exec DRLELDMC accepts the following parameters: * 00194000
//*                                                    * 00195000
//* SYSPREFIX=xxxxxxx Prefix for system tables. default=DRLSYS * 00196000
//* SYSTEM=xxxxxx DB2 subsystem name. default=DSN            * 00197000
//* PREFIX=xxxxxxx Prefix for all other tables.default=DRL   * 00198000
//* PLAN=xxxxxxx DB2 plan name default=DRLPLAN              * 00198100
//* DSPREFIX=xxxxxxx Prefix for creation of data sets DRLOUT and * 00198200
//* DRLDUMP. default=DRL                                     * 00198300
//* SHOWSQL=xxx Show SQL. YES/NO default=NO                 * 00198400
//* SHOWINPUT=xxx Copy DRLIN to DRLOUT. YES/NO default=YES   * 00199000
//* LOGTYPE=xxxxxxxxx Log type (e.g. SMF). If not specified, * 00199100
//* all log types are selected for processing.              * 00199200
//* LOGID=xxxxxx Log ID. If not specified, all log id's are * 00199300
//* are selected for processing. Default Log ID             * 00199400
//* should be coded as ''.                                  * 00199500
//* RETENTION=xxx Retention period for DRLOUT, DRLDUMP and * 00200000
//* collect result info. default=10 days                    * 00210000
//* PURGE=xxx Purge info for successful collects that * 00220000
//* are older than its Retention period                     * 00230000
//* YES/NO default=YES                                     * 00240000
//* CLEANUP=xxx Option only to be used after an Abend. * 00240100
//* No collect is done. Processes only log data * 00240200
//* sets marked with SELECT in the Log Data Sets * 00240300
//* To Be Collected list (on panel DRLDLDMT). * 00240400
//* Output: the data set being collected when * 00240500
//* the abend occurred will be moved to the * 00240600
//* Collected With Failure list. Other concatenate- * 00240700
//* nated data sets are moved to the Successful * 00240800
//* list or made ready for a renewed collect. * 00240900
//* YES/NO default=NO * 00241000
```

Figure 115. DRLJLDMC (Part 1 of 2) (Part 1 of 3)

The collect job and the parameters it uses

```

/**                                                    * 00242000
/** DRLOUT/DRLDUMP DD card: if any of these files are specified * 00250000
/**                                     they will be used by all collects started * 00260000
/**                                     by this job. They will then not be controlled * 00261000
/**                                     or viewed by the Log Data Manager dialog. * 00270000
/**                                                    * 00270100
/** DRLLOG DD card:      Must not be allocated. * 00271000
/**                                                    * 00280000
/** Output:             The results of the collects are recorded in * 00290000
/**                     sysprefix.DRLLDM_LOGDATASETS together * 00291000
/**                     with LOG_NAME, LOG_ID and TIME_ADDED. * 00291100
/**                     Job messages in the DRLMSG file * 00291200
/**                                                    * 00291300
/** Notes: * 00291400
/** Before you submit the job, do the following: * 00291500
/** 1. Check that the steplib db2loadlibrary is correct. * 00291800
/** 2. Change the parameters to DRLELDMC as required. * 00292000
/** 3. Change the DB2 load library name according to * 00292101
/**     the naming convention of your installation. * 00292201
/**     Default is 'db2loadlibrary'. * 00292301
/** 4. Change the TDSz data set HLQ (default is DRLvrn.) * 00292401
/**                                                    * 00292500
/** CHANGE ACTIVITY: * 00292600
/** 00 1995-03-05 IW Created * 00292700
/**                                                    * 00293000
/**                                                    * 00293101
/** CHANGE ACTIVITY: * 00293201
/** CHANGE FLAG TYPE DATE DESCRIPTION * 00293301
/** ----- * 00293401
/** $D0=DCR066, TDS180,01/06/07,ADL(SM): Update TDS Version and * 00293501
/**                                     DB2 dataset names. * 00293601
/** $D1=DCR116, TDS181,15/05/09,ADL(RC): Update TDS Version * 00293701
/**                                                    * 00293801
/******* 00294000
//LDMLLOG EXEC PGM=IKJEFT01 00295000
/** 00296000
//SYSPROC DD DISP=SHR,DSN=DRLvrn.SDRLEXEC <-- 00297001
//STEPLIB DD DISP=SHR,DSN=DRLvrn.SDRLOAD <-- 00298001
// DD DISP=SHR,DSN=db2loadlibrary <-- 00299000
/******* 00300100
/**DRLOUT DD SYSOUT=*,DCB=(RECFM=F,LRECL=80) 00301000
/**DRLDUMP DD SYSOUT=*,DCB=(RECFM=F,LRECL=80) 00302000
/******* 00303000
/** MESSAGES 00320000
/** 00330000
//DRLMSG DD SYSOUT=*,DCB=(RECFM=F,LRECL=80) 00331000
/******* 00331400
/** Add the next three DD statements if you collect IMS. 00331600
/** Note 1: IMSVER must specify the same release as the 00331700
/** collect statement used by the Log Data Manager. 00331800
/** Note 2: DRLCHKI must be DUMMY or point out an empty 00331900
/** data set after an IMS restart. 00332000
/******* 00332100

```

Figure 115. DRLJLDMC (Part 1 of 2) (Part 2 of 3)

The collect job and the parameters it uses

```

//*DRLICHKI DD DSN=Generation data set(0),DISP=SHR                00332200
//*DRLICHKO DD DSN=Generation data set(+1),DISP(NEW,CATLG)        00332300
//*DRLIPARM DD *                                                00332400
//*IMSID=IMS             -- IMS ID for this IMS system. 'IMS      ' default 00332500
//*IMSVER=71            -- IMS release being processed. 71 is default 00332600
//*IMSIDCHECK=FAIL      -- Force a termination if not correct 00332700
//*MAXOUTPUT=50         -- Allow up to 50 outputs per transaction/BMP 00332800
//*MAXUOR=50           -- Allow up to 50 UOR's per BMP 00332900
//*****                                                        00333000
//* START EXEC DRLEDMC                                         00410000
//*                                                            00430000
//SYSPRINT DD SYSOUT=*                                         00440000
//SYSTSPRT DD SYSOUT=*                                         00450000
//SYSTSIN DD *                                                 00460000
%DRLEDMC SYSTEM=DSN  SYSPREFIX=DRLSYS  PREFIX=DRL  -           00470000
  DSPREFIX=DRL                                               -           00480000
  LOGTYPE=SMF                                               -           00481000
  LOGID=' '                                                 00490000
/*                                                            00510000

```

Figure 115. DRLJLDMC (Part 1 of 2) (Part 3 of 3)

Setting the parameters for job DRLJLDMC

The rules for entering parameter values are as follows:

1. All parameters are *optional*.
2. Blanks must not exist before or after an equal sign (=).
3. Blanks must not exist within a parameter value.
4. A parameter value must not be enclosed in apostrophes.
5. A continuation mark (-) can be placed in any column.

These are the DRLJLDMC job parameters:

Parameters	Values
SYSPREFIX	The prefix of all Tivoli Decision Support for z/OS system and control DB2 tables. If you do not specify a value here, the default DRLSYS is used.
SYSTEM	The DB2 subsystem. The default value is DSN.
PREFIX	The prefix used with all other tables. The default value is DRL.
PLAN	The name of the DB2 application plan. The default value is DRLPLAN.
DSPREFIX	The prefix used for the creation of data sets DRLOUT and DRLDUMP. The default is DRL. The names of these data sets are 'dsprefix_value.Ddate.Ttime.DRLOUT/DRLDUMP' where <i>date</i> and <i>time</i> are generated. The maximum length of DSPREFIX is 20 characters.
SHOWSQL	When this value is set to YES, all executed SQL statements are written to an output file. The default value is NO.
SHOWINPUT	When this value is set to YES, all DRLIN statements are written to DRLOUT. The default value is YES.
LOGTYPE, LOGID	Each combination of LOGTYPE and LOGID identifies the log IDs to be used in the collect. If log type is not specified, all log types are selected

The collect job and the parameters it uses

	for processing. If log ID is not specified, all log IDs for the log type specified are selected for processing. The default log ID is selected by setting this value to straight quotes (").
RETENTION	The retention period for DRLOUT, DRLDUMP and the log data manager information that is produced by the collects. The default is 10 days.
PURGE	This parameter determines whether or not the information resulting from successful collects should be purged when the date of the information is older than the retention period. The parameter can be set to the value YES or NO. If PURGE is set to YES, all log data manager information about successfully collected log data sets is deleted (for all log types and log IDs). The default value is PURGE=YES.
CLEANUP	This parameter is used when the DRLELDMC job has abended during a collect of <i>concatenated</i> log data sets. If you run the DRLELDMC job with CLEANUP set to YES, log data sets that were successfully collected before the abend occurred are moved to the Log Data Sets Successfully Collected list. The log data set that was being collected <i>when</i> the abend occurred is moved to the Log Data Sets Collected With Failure list. The default value is CLEANUP=NO.
DRLOUT DD statement	If this file is specified, it is used by all collects started by this job. However, this file is not used by the log data manager dialog.
DRLDUMP DD statement	If this file is specified, it is used by all collects started by this job. However, this file is not used by the log data manager dialog.
DRLLOG DD statement	Must not be allocated.

Modifying the list of successfully collected log data sets

To list the log data sets that have been successfully collected, select 3, Log data sets collected successfully, from the log data manager Main Selection window. The Log Data Sets Collected Successfully window (Figure 116 on page 285) is displayed, one row for each log data set that has been successfully collected by the Log Data Manager for this log type.

The list of data sets are sorted by the Time collected column.

Modifying the list of successfully collected log data sets

```
DRDLDMC      Log Data Sets Collected Successfully for SMF

Select a data set. Then press Enter to view DRLOUT.

/  Log data set          Time collected      RC
-  SYS170.SMFLOGX.SLOG950120  2004-11-21.02.03.25  0
-  SYS170.SMFLOGB.SLOG950120  2004-11-21.01.33.25  0
-  SYS170.SMFLOGA.SLOG950120  2004-11-21.01.15.10  0
-  SYS170.SMFLOG.SLOG950120B  2004-11-21.01.01.20  0
-  SYS170.SMFLOG.SLOG950120A  2004-11-21.00.45.20  0
-  SYS170.SMFLOGA.SLOG950119  2004-11-20.23.15.10  0
-  SYS170.SMFLOG.SLOG950119B  2004-11-20.01.45.20  0
-  SYS170.SMFLOGB.SLOG950119  2004-11-20.01.13.25  0
-  SYS170.SMFLOGX.SLOG950119  2004-11-20.01.13.25  0
-  SYS170.SMFLOG.SLOG950119A  2004-11-20.00.45.20  0

Command ==> _____
F1=Help      F2=Split      F3=Exit      F5=DRLDUMP   F6=Retent.   F7=Bkwd
F8=Fwd       F9=Swap       F11=Delete   F12=Cancel
```

Figure 116. Log Data Sets Collected Successfully window

Viewing the information about successfully collected log data sets

To view the log data manager information about a log data set (the default action):

1. Select a log data set and press Enter.
2. The DRLOUT data set is displayed in ISPF Browse mode (if a DRLOUT statement was not included in the collect job).

Viewing the dump data set

To view the dump data set (DRLDUMP):

1. Select the log data set and press F5.
2. The DRLDUMP data set is displayed using the ISPF Browse function, if a DRLDUMP DD statement was not present in the collect job. DRLDUMP should be empty if the return code from the collect was 0.

Changing the retention period of information about a log data set

To change the retention period for the log data manager information about a log data set:

1. Select the log data set and press F6. The Retention Period for Collect Information window is displayed (Figure 117 on page 286).
2. Type the retention period field the number of days you require, and press Enter.

Note: You are not changing the retention period for the collected log data here, but only the retention period for the log data manager information about the log data set.

Modifying the list of successfully collected log data sets

```
DRLLDLMR      Retention period for collect information

Type Retention period. Then press Enter to save.

Data set      DRL181.SMFLOGA.SLOG950122
Retention period 10 days

F1=Help      F2=Split    F9=Swap     F12=Cancel
```

Figure 117. Retention Period window

Deleting the information about a log data set

To delete the log data manager information about a log data set together with DRLOUT and DRLDUMP data sets (if they exist):

1. Select the log data set for which you want to delete the log data manager information, and press F11.
2. Press Enter to confirm deletion.

Note: You are not deleting the log data set itself here, but only the log data manager information about the log data set.

Modifying the list of unsuccessfully collected log data sets

To list the log data sets that have been unsuccessfully collected, select 4, Log Data Sets Collected With Failure, from the log data manager Main Selection window. The Log Data Sets Collected With Failure window (Figure 118) is displayed, one row for each log data set that has been unsuccessfully collected by the Log Data Manager for this log type.

The list of data sets are sorted by the Time collected column.

```
DRLLDLMF      Log Data Sets Collected with Failure for SMF

Select a data set. Then press Enter to view DRLOUT.

/  Log data set      Time collected      RC
_  SYS170.SMFLOG1.SLOG01  2004-11-20.23.22.10  8
_  SYS170.SMFLOG.SYS1.SLOG0  2004-11-18.10.16.22  20

Command ==> _____
F1=Help      F2=Split    F3=Exit      F4=Rerun     F5=DRLDUMP   F7=Bkwd
F8=Fwd       F9=Swap     F11=Delete   F12=Cancel
```

Figure 118. Log Data Sets Collected with Failure window

Viewing the unsuccessfully collected log data set

To view the log data set (the default action):

1. Select the log data set and press Enter.
2. The DRLOUT data set is displayed in ISPF Browse mode (if a DRLOUT statement was not included in the collect job).

Viewing the dump data set

To view the dump data set (DRLDUMP):

1. Select the log data set and press F5.
2. The DRLDUMP data set is displayed using the ISPF Browse function, if a DRLDUMP DD statement was not present in the collect job. DRLDUMP is empty in most cases if the return code from the collect was 0.

Recording a log data set to be collected again

If you record a log data set for collection again, it is included in the next collect job (described in “The collect job and the parameters it uses” on page 280).

However, the entry you select to be collected again is not deleted from the Log Data Sets Collected With Failure window.

If you select a log data set to be collected a second time (using the F4=Rerun option) after it has already been successfully collected. The log collector detects this incorrect selection and the collect attempt is rejected. However, if you have specified REPROCESS=YES in the collect job to recollect a successfully collected log data set, the log collector does not reject the collect.

To record a log data set to be collected again:

1. Select the log data set.
2. Press F4. An error message is displayed if this log data set is already included in the list of data sets to be collected.

Deleting the information about a log data set

To delete the information about a log data set from the list shown, together with DRLOUT and DRLDUMP data sets (if they exist):

1. Select the log data set you want to delete, and press F11.
2. Press Enter to confirm deletion.

Modifying the list of successfully collected log data sets

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Chapter 16. System tables and views

This chapter describes system tables and views. These tables are used by the Tivoli Decision Support for z/OS log collector and dialogs. They are created during installation of the Tivoli Decision Support for z/OS base, with the prefix for system tables specified in *userid.DRLFPROF*. The default prefix for the tables is DRLSYS.

System tables do not appear in the tables list in the administration dialog.

Each table description includes information about the table, a description of each key column and data column in the table, and an example of the table's contents.

Key columns are marked with a "K".

Data columns are listed after the last key column.

The tables appear in alphabetic order, with any underscores ignored.

Log collector system tables

These tables contain definitions used by the log collector. They are maintained by the log collector; **do not** modify them.

DRLEXPRESSIONS

This system table contains one row for each expression or condition in a log, record, record procedure, or update definition.

Column name		Data type	Description
OBJECT_TYPE	K	CHAR(8)	Object type. This is LOG, RECORD, RECPROC, or UPDATE.
OBJECT_NAME	K	VARCHAR(18)	Name of the object.
EXPRESSION_NO	K	SMALLINT	Expression sequence number within the object.
EXPRESSION		VARCHAR(2000)	Original expression text.
PARSED_EXPRESSION		VARCHAR(2000)	Parsed version of the expression.

DRLFIELDS

This system table contains one row for every field in each defined record type.

Column name		Data type	Description
RECORD_NAME	K	VARCHAR(18)	Name of the record. For a log header, this is *log-name*.
FIELD_NO	K	SMALLINT	Field sequence number within the record.
FIELD_NAME		VARCHAR(18)	Name of the field.

Log collector system tables

Column name		Data type	Description																																																														
TYPE		CHAR(8)	Type of the field. The following values are possible: <table border="0"> <thead> <tr> <th>Type</th> <th>Field format</th> </tr> </thead> <tbody> <tr><td>BINARY</td><td>BINARY</td></tr> <tr><td>BINARYS</td><td>BINARY SIGNED</td></tr> <tr><td>BINARYU</td><td>BINARY UNSIGNED</td></tr> <tr><td>EINTEGER</td><td>EXTERNAL INTEGER</td></tr> <tr><td>HEXIN</td><td>EXTERNAL HEX</td></tr> <tr><td>DECIMAL</td><td>DECIMAL(p,s)</td></tr> <tr><td>ZONED</td><td>ZONED(p,s)</td></tr> <tr><td>FLOAT</td><td>FLOAT</td></tr> <tr><td>EFLOAT</td><td>EXTERNAL FLOAT</td></tr> <tr><td>CHAR</td><td>CHAR or CHAR(n)</td></tr> <tr><td>CHAR(*)</td><td>CHAR(*) or LENGTH * CHAR</td></tr> <tr><td>VARCHAR</td><td>VARCHAR</td></tr> <tr><td>BIT</td><td>BIT or BIT(n)</td></tr> <tr><td>HEX</td><td>HEX</td></tr> <tr><td>DATE_001</td><td>DATE(0CYYDDDF)</td></tr> <tr><td>DATE_002</td><td>DATE(YYYYDDDF)</td></tr> <tr><td>DATE_003</td><td>DATE(MMDDYY)</td></tr> <tr><td>DATE_004</td><td>DATE(YYDDDF)</td></tr> <tr><td>DATE_005</td><td>DATE(CYMMDDF)</td></tr> <tr><td>DATE_006</td><td>DATE(YMMDD)</td></tr> <tr><td>DATE_007</td><td>DATE(MMDDYYYY)</td></tr> <tr><td>TIME_001</td><td>TIME(1/100S)</td></tr> <tr><td>TIME_002</td><td>TIME(HHMMSSSTF)</td></tr> <tr><td>TIME_003</td><td>TIME(0HHMMSSF)</td></tr> <tr><td>TIME_004</td><td>TIME(HHMMSSSTH)</td></tr> <tr><td>TIME_005</td><td>TIME(HHMMSSXF)</td></tr> <tr><td>TIME_006</td><td>TIME(HHMMSS)</td></tr> <tr><td>TIME_007</td><td>TIME(HHMMSSU6)</td></tr> <tr><td>INTV_001</td><td>INTV(MMSSTTF)</td></tr> <tr><td>TSTAMP_1</td><td>TIMESTAMP(TOD)</td></tr> </tbody> </table>	Type	Field format	BINARY	BINARY	BINARYS	BINARY SIGNED	BINARYU	BINARY UNSIGNED	EINTEGER	EXTERNAL INTEGER	HEXIN	EXTERNAL HEX	DECIMAL	DECIMAL(p,s)	ZONED	ZONED(p,s)	FLOAT	FLOAT	EFLOAT	EXTERNAL FLOAT	CHAR	CHAR or CHAR(n)	CHAR(*)	CHAR(*) or LENGTH * CHAR	VARCHAR	VARCHAR	BIT	BIT or BIT(n)	HEX	HEX	DATE_001	DATE(0CYYDDDF)	DATE_002	DATE(YYYYDDDF)	DATE_003	DATE(MMDDYY)	DATE_004	DATE(YYDDDF)	DATE_005	DATE(CYMMDDF)	DATE_006	DATE(YMMDD)	DATE_007	DATE(MMDDYYYY)	TIME_001	TIME(1/100S)	TIME_002	TIME(HHMMSSSTF)	TIME_003	TIME(0HHMMSSF)	TIME_004	TIME(HHMMSSSTH)	TIME_005	TIME(HHMMSSXF)	TIME_006	TIME(HHMMSS)	TIME_007	TIME(HHMMSSU6)	INTV_001	INTV(MMSSTTF)	TSTAMP_1	TIMESTAMP(TOD)
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OFFSET		SMALLINT	Offset of the field in the record or section.																																																														
INSECTION_NO		SMALLINT	Number of the section where the field is contained. This is zero if the field is not in a section.																																																														
REMARKS		VARCHAR(254)	Description of the field, set by the COMMENT ON statement.																																																														

DRLLDM_COLLECTSTMT

This system table contains one row for each combination of log type and log ID that is defined to the Log Data Manager. Each row identifies the collect statement that is used for the log type/log ID combination.

Column name		Data type	Description
LOG_NAME	K	VARCHAR(18)	Name of the log type.
LOG_ID	K	CHAR(8)	The log ID.
COLLECT_STMT_DS		VARCHAR(54)	Name of the data set that contain the collect statement, including the member name (for a PDS member).

DRLLDM_LOGDATASETS

This system table contains one or more rows for each log data set recorded by the Log Data Manager.

Column name		Data type	Description
DATASET_NAME	K	VARCHAR(54)	Name of the log data set, including the member name (for a PDS member).
LOG_NAME	K	VARCHAR(18)	Name of the log type.
TIME_COLLECTED	K	TIMESTAMP	Timestamp of the collect. For a data set not yet collected it is 0001-01-01-00.00.000000. For a successfully collected data set it is set to the value of the TIME_COLLECTED field in the corresponding entry in DRLLOGDATASETS. For an unsuccessfully collected data set, or a successfully collected data set in which no record was recognized, it set to the timestamp when DRLELDMC called the log collector.
LOG_ID		CHAR(8)	The log ID currently associated with this data set.
TIME_ADDED		TIMESTAMP	Timestamp when the log data set was first recorded.
TIME_COLLECT_CALL		TIMESTAMP	Timestamp when the DRLELDMC exec called the log collector to process the log data set.
COLLECT_RC		CHAR(5)	The return code from the collect. It is blank if not yet collected; '0' or '4' if successfully collected; >= '8' if unsuccessfully collected without abend; 'Unn' if the collect ended with a user abend; 'Snn' if the collect ended with a system abend.
OUTPUT_DS		VARCHAR(35)	The high level qualifiers used when DRLOUT and/or DRLDUMP data sets were created. 'OUTPUT_DS_value.DRLOUT' is the data set name of the DRLOUT file. This value is blank if no DRLOUT or DRLDUMP data set has been created.
RETENTION		SMALLINT	Retention period in days. Null field if not yet collected.
RETENTION_DATE		INTEGER	Collect date expressed as number of days from January 1, Year 1. This field is used for purge calculations. Null field if not yet collected.
COMPLETE		CHAR(1)	Flag indicating the status of the log data set. It is blank if the data set is ready to be collected; 'S' if the collect is running; 'Y' if successfully collected; 'F' if collected with failure.

DRLLOGDATASETS

This system table contains one row for each collected log data set.

Column name		Data type	Description
LOG_NAME	K	VARCHAR(18)	Name of the log definition.
FIRST_RECORD	K	VARCHAR(80)	First 80 bytes of the first identified record in the data set. This is used to identify the data set and make sure that it is not collected again. If the record is a user defined one, avoid beginning the record with data needed to distinguish two records. For more information, refer to <i>Language Guide and Reference</i> .
DATASET_NAME	K	VARCHAR(54)	Name of the data set, including the member name (for a PDS member).

Log collector system tables

Column name		Data type	Description
COMPLETE		CHAR(1)	Shows whether the data set has been completely processed. This is Y (the data set has been completely processed) or N (the data set has only been partly processed).
ELAPSED_SECONDS		INTEGER	Collect elapsed time, in seconds. The actual collect elapsed time is a bit longer since there is some activity after this table has been updated.
FIRST_TIMESTAMP		TIMESTAMP	Timestamp of the first record in the log. This is only set if TIMESTAMP expression is specified for the log.
LOG_SOURCE		CHAR(16)	Reserved.
LAST_TIMESTAMP		TIMESTAMP	Timestamp of the last record in the log. This is only set if TIMESTAMP expression is specified for the log.
NCOLLECTS		SMALLINT	Number of times the data set has been collected. If this is greater than 1, it means that collect has been run with the REPROCESS operand to collect the data set again.
NRECORDS		INTEGER	Number of records read from the log data set.
NSELECTED		INTEGER	Number of records identified.
NSKIPPED		INTEGER	Number of records skipped due to timestamp overlap (applies when ON TIMESTAMP OVERLAP SKIP specified).
NUPDATES		INTEGER	Number of database rows updated when the data set was collected.
NINSERTS		INTEGER	Number of database rows inserted when the data set was collected.
NDELETES		INTEGER	Number of database rows deleted when the data set was collected.
RETURN_CODE		SMALLINT	Return code from collect; 0 or 4.
TIME_COLLECTED		TIMESTAMP	Date and time when collect ended.
USER_ID		CHAR(8)	ID of the user running collect.
VOLUME		CHAR(6)	Volume serial number for the data set.

DRLLOGS

This system table contains one row for each defined log type.

Column name		Data type	Description
LOG_NAME	K	VARCHAR(18)	Name of the log.
VERSION		VARCHAR(18)	Version level. The value of VERSION is set for an object when the object is defined and is taken from the value of keyword VERSION. For definitions supplied by IBM, the value is IBM. <i>mmm</i> [.APAR_number], where <i>mmm</i> is the version, release, modification level of the object.
HEADER		CHAR(1)	Shows whether a header is defined for the log. This is Y (a header is defined) or N (no header is defined). If there is a header, it is contained in the DRLRECORDS and DRLFIELDS tables.
TIMESTAMP_EXPR_NO		SMALLINT	Number of the TIMESTAMP expression in the DRLEXPRESSIONS table. This is zero if no TIMESTAMP expression is specified.

Column name		Data type	Description
FIRST_CONDITION_NO		SMALLINT	Number of the FIRST RECORD condition in the DRLEXPRESSIONS table. This is zero if no FIRST RECORD condition is specified.
LAST_CONDITION_NO		SMALLINT	Number of the LAST RECORD condition in the DRLEXPRESSIONS table. This is zero if no LAST RECORD condition is specified.
LOGPROC		CHAR(8)	Name of the log procedure to use for the log. This is blank if no log procedure is specified.
LOGPROC_LANGUAGE		CHAR(8)	Programming language that the log procedure is written in. This is ASM or C.
LOGPROC_PARM_NO		SMALLINT	Number of the log procedure PARM expression in the DRLEXPRESSIONS table. This is zero if no PARM expression is specified.
TIME_DEFINED		TIMESTAMP	Date and time when the log was defined.
CREATOR		CHAR(8)	ID of the user who defined the log.
REMARKS		VARCHAR(254)	Description of the log, set by the COMMENT ON statement.

DRLPURGECOND

This system table contains one row for each purge condition in defined data tables.

Column name		Data type	Description
TABLE_PREFIX	K	CHAR(8)	Prefix of the table.
TABLE_NAME	K	VARCHAR(18)	Name of the table.
VERSION		VARCHAR(18)	Version level. The value of VERSION is set for an object when the object is defined and is taken from the value of keyword VERSION. For definitions supplied by IBM, the value is IBM. <i>mmm</i> [.APAR_number], where <i>mmm</i> is the version, release, modification level of the object.
SQL_CONDITION		VARCHAR(254)	An SQL condition that defines rows to be deleted from the database when the PURGE statement is executed.
TIME_DEFINED		TIMESTAMP	Date and time when the purge condition was defined.
CREATOR		CHAR(8)	ID of the user who defined the purge condition.

DRLRECORDPROCS

This system table contains one row for each defined record procedure.

Column name		Data type	Description
PROGRAM_NAME	K	CHAR(8)	Name of the record procedure (name of the load module that gets invoked).
VERSION		VARCHAR(18)	Version level. The value of VERSION is set for an object when the object is defined and is taken from the value of keyword VERSION. For definitions supplied by IBM, the value is IBM. <i>mmm</i> [.APAR_number], where <i>mmm</i> is the version, release, modification level of the object.
LANGUAGE		CHAR(8)	Programming language that the record procedure is written in. This is ASM or C.

Log collector system tables

Column name		Data type	Description
PARAMETER_EXPR_NO		SMALLINT	Number of the PARM expression in the DRLEXPRESSIONS table. This is zero if no PARM expression is specified.
TIME_DEFINED		TIMESTAMP	Date and time when the record procedure was defined.
CREATOR		CHAR(8)	ID of the user who defined the record procedure.
REMARKS		VARCHAR(254)	Description of the record procedure, set by the COMMENT ON statement.

DRLRECORDS

This system table contains one row for each defined record type and one row for each defined header in log definitions.

Column name		Data type	Description
RECORD_NAME	K	VARCHAR(18)	Name of the record. For a log header, this is *log-name*.
VERSION		VARCHAR(18)	Version level. The value of VERSION is set for an object when the object is defined and is taken from the value of keyword VERSION. For definitions supplied by IBM, the value is IBM.mmm[.APAR_number], where mmm is the version, release, modification level of the object.
LOG_NAME		VARCHAR(18)	Name of the log that contains the record.
BUILT_BY		CHAR(8)	Name of the record procedure that builds the record, if any.
NFIELDS		SMALLINT	Number of fields in the record.
NSECTIONS		SMALLINT	Number of sections in the record.
CONDITION_NO		SMALLINT	Number of the IDENTIFIED BY condition in the DRLEXPRESSIONS table. This is zero if no IDENTIFIED BY condition is specified.
TIME_DEFINED		TIMESTAMP	Date and time when the record was defined.
CREATOR		CHAR(8)	ID of the user who defined the record.
REMARKS		VARCHAR(254)	Description of the record, set by the COMMENT ON statement.

DRLRPROCINPUT

This system table contains one row for every defined record type that must be processed by a record procedure.

Column name		Data type	Description
PROGRAM_NAME	K	CHAR(8)	Name of the record procedure.
RECORD_NAME	K	VARCHAR(18)	Name of the record that is input to the record procedure.

DRLSECTIONS

This system table contains one row for every defined section in defined record types.

Column name		Data type	Description
RECORD_NAME	K	VARCHAR(18)	Name of the record.
SECTION_NO	K	SMALLINT	Section sequence number within the record.
SECTION_NAME		VARCHAR(18)	Name of the section.

Column name		Data type	Description
CONDITION_NO		SMALLINT	Number of the PRESENT IF condition in the DRLEXPRESSIONS table. This is zero if no PRESENT IF condition is specified.
OFFSET_EXPR_NO		SMALLINT	Number of the OFFSET expression in the DRLEXPRESSIONS table. This is zero if no OFFSET expression is specified.
LENGTH_EXPR_NO		SMALLINT	Number of the LENGTH expression in the DRLEXPRESSIONS table. This is zero if no LENGTH expression is specified.
NUMBER_EXPR_NO		SMALLINT	Number of the NUMBER expression in the DRLEXPRESSIONS table. This is zero if no NUMBER expression is specified.
INSECTION_NO		SMALLINT	Number of the section that this section is contained in. This is zero if the section is not contained in another section.
REPEATED		CHAR(1)	Shows whether the section is repeated. This is Y (the section is repeated) or N (the section is not repeated).

DRLUPDATECOLS

This system table contains one row for every column in each update definition, including GROUP BY, SET, and MERGE columns.

Column name		Data type	Description
UPDATE_NAME	K	VARCHAR(18)	Name of the update definition.
UPDATECOL_NO	K	SMALLINT	Sequence number of the column in the update definition.
COLUMN_NAME		VARCHAR(18)	Name of the column.
COLUMN_NO		SMALLINT	Number of the column in the table definition.
FUNCTION		CHAR(8)	This is blank for GROUP BY columns; SUM, MAX, MIN, COUNT, FIRST, LAST, AVG, or PERCENT for SET columns; or INTTYPE, START, END, or QUIET for MERGE columns.
EXPRESSION_NO		SMALLINT	Number of the expression in the DRLEXPRESSIONS table.
COUNT_COLUMN		VARCHAR(18)	If the function is AVG or PERCENT, this contains the name of the column that contains the count of values.
PERCENTILE		SMALLINT	If the function is PERCENT, this contains the percentile value (1 - 99).

DRLUPDATEDISTR

This system table contains one row for every distributed field or column in each update definition.

Column name		Data type	Description
UPDATE_NAME	K	VARCHAR(18)	Name of the update definition.
DISTR_NO	K	SMALLINT	Field or column sequence number in the DISTRIBUTE clause.
FIELD_NAME		VARCHAR(18)	Name of the field or column to be distributed.

DRLUPDATELETS

This system table contains one row for every identifier in the LET clause of each update definition. (The identifiers are defined as *abbreviations* in the administration dialog.)

Log collector system tables

Column name		Data type	Description
UPDATE_NAME	K	VARCHAR(18)	Name of the update definition.
LET_NO	K	SMALLINT	Sequence number of the identifier in the LET clause.
LET_NAME		VARCHAR(18)	Name of the identifier.
EXPRESSION_NO		SMALLINT	Number of the expression in the DRLEXPRESSIONS table.

DRLUPDATES

This system table contains one row for each update definition.

Column name		Data type	Description
UPDATE_NAME	K	VARCHAR(18)	Name of the update definition.
VERSION		VARCHAR(18)	Version level. The value of VERSION is set for an object when the object is defined and is taken from the value of keyword VERSION. For definitions supplied by IBM, the value is IBM. <i>mmm</i> [.APAR_number], where <i>mmm</i> is the version, release, modification level of the object.
SOURCE_PREFIX		CHAR(8)	Prefix of the source table. This is blank if the source is a record.
SOURCE_NAME		VARCHAR(18)	Name of the source. This is a record name or a table name.
TARGET_PREFIX		CHAR(8)	Prefix of the target table.
TARGET_NAME		VARCHAR(18)	Name of the target table.
SECTION_NAME		VARCHAR(18)	Name of the repeated section, if any, that is used in the update definition.
CONDITION_NO		SMALLINT	Number of the WHERE condition in the DRLEXPRESSIONS table. This is zero if no WHERE condition is specified.
NLETS		SMALLINT	Number of identifiers specified in the LET clause.
NUPDATECOLS		SMALLINT	Number of columns in the GROUP BY, SET, and MERGE clauses.
SCHEDULE_EXPR_NO		SMALLINT	Number of the APPLY SCHEDULE expression in the DRLEXPRESSIONS table. This is zero if APPLY SCHEDULE is not specified.
SCHEDULE_INTTYPE		VARCHAR(18)	Name of the source column or field that defines the interval type.
SCHEDULE_START		VARCHAR(18)	Name of the source column or field that defines the interval start timestamp.
SCHEDULE_END		VARCHAR(18)	Name of the source column or field that defines the interval end time stamp.
SCHEDULE_STATUS		VARCHAR(18)	Name of the identifier that contains the schedule status.
NDISTR_FIELDS		SMALLINT	Number of fields or columns that are distributed.
DISTR_BY_EXPR_NO		SMALLINT	Number of the DISTRIBUTE BY expression in the DRLEXPRESSIONS table. This is zero if DISTRIBUTE is not specified.
DISTR_FROM_EXPR_NO		SMALLINT	Number of the DISTRIBUTE FROM expression in the DRLEXPRESSIONS table. This is zero if DISTRIBUTE is not specified.

Column name		Data type	Description
DISTR_TO_EXPR_NO		SMALLINT	Number of the DISTRIBUTE TO expression in the DRLEXPRESSIONS table. This is zero if DISTRIBUTE is not specified.
DISTR_TIMESTAMP		VARCHAR(18)	Name of the identifier that contains the distribution interval start timestamp.
DISTR_INTERVAL		VARCHAR(18)	Name of the identifier that contains the distribution interval length.
TIME_DEFINED		TIMESTAMP	Date and time when the update was defined.
CREATOR		CHAR(8)	ID of the user who defined the update.
REMARKS		VARCHAR(254)	Description of the update definition, set by the COMMENT ON statement.

Dialog system tables

These tables contain definitions used by Tivoli Decision Support for z/OS dialogs and utilities. **Do not** modify them.

DRLCHARTS

This system table stores information extracted from the host graphical report formats (ADMCFORM data). Data is inserted into this table at installation time by the host DRLIRD2 member. If GDDM version 3 or later is installed and available, DRLCHARTS is also updated by the host exec DRLECHRT when a report is saved in the host ISPF dialog.

Column name		Data type	Description
CHART_NAME	K	CHAR(8)	ADMCFORM name. This is the same as the CHART column in the DRLREPORTS table.
TYPE		SMALLINT	This column shows a number identifying the chart type: <ul style="list-style-type: none"> 1 Line chart 2 Surface chart 3 Histogram 41, 42, 43 Bar chart. The 4 indicates that this is a bar chart; 1, 2, or 3 indicates whether the bars are side by side (1), stacked (2), or overlaid (3). 5 Pie chart 6 Venn diagram 7 Polar chart 8 Tower diagram 9 Table. This is not used. 10 Combination chart.

Dialog system tables

Column name		Data type	Description
VALUES		SMALLINT	This column contains one of the values 0, 1, 2, or 3. The column is valid only for chart types 4 (bar) and 5 (pie). For bar charts, the values are: 0 No values are shown 1 Values are shown at the top/end of the bar 2 Values are shown inside the bars 3 Values are shown as in GDDM version 1 release 3 For pie charts, the values are: 1 Values are shown 2 No values are shown
AXIS_ORIENT		SMALLINT	Axis orientation. This can be 1 or 2. 1 means vertical y-axis and bars. 2 means horizontal y-axis and bars.
Y_DATA_TYPE		VARCHAR(50)	If the chart type is 10 (combination), this column shows the chart type for each data group: 1 Line chart 2 Surface chart 3 Histogram 41, 42, 43 Bar chart For example, 1, 42, 42, 42, 42 identifies a combination chart with a line chart and stacked bars. For a bar chart, the number is concatenated to indicate bar position as in TYPE above.
X_AXIS_TITLE		VARCHAR(52)	This is a string containing the x-axis title.
Y_AXIS_TITLE		VARCHAR(52)	This is a string containing the y-axis title.

DRLCOMPONENTS

This system table contains one row for each Tivoli Decision Support for z/OS component.

Column name		Data type	Description
COMPONENT_NAME	K	VARCHAR(18)	Name of the component.
DESCRIPTION		VARCHAR(50)	Description of the component that is shown in the dialog.
STATUS		CHAR(1)	Component status. This is blank if the component is not installed, I if the component is installed online, or B if the component is installed in batch.
TIME_INSTALLED		TIMESTAMP	Date and time when the component was installed or defined.
USER_ID		CHAR(8)	ID of the user who installed or defined the component.

DRLCOMP_OBJECTS

This system table contains one row for every object in each component.

Column name		Data type	Description
COMPONENT_NAME	K	VARCHAR(18)	Name of the component.
OBJECT_NAME	K	VARCHAR(18)	Name of the object.

Column name		Data type	Description
OBJECT_TYPE	K	CHAR(8)	Type of object. This is LOG, RECORD, RECPROC, TABSPACE, LOOKUP, TABLE, UPDATE, REPORT, or REPGROUP.
MEMBER_NAME		CHAR(8)	Name of the member in the SDRLDEFS or SDRLRxxx library where the object is defined.
PART_NAME		VARCHAR(18)	Name of the component part that the object belongs to, if any.
EXCLUDE_FLAG		CHAR(1)	Flag to determine if this object is excluded from installation of the component.

DRLCOMP_PARTS

This system table contains one row for every part in each component.

Column name		Data type	Description
COMPONENT_NAME	K	VARCHAR(18)	Name of the component.
PART_NAME	K	VARCHAR(18)	Name of the component part.
DESCRIPTION		VARCHAR(50)	Description of the component part that is shown in the dialog.
STATUS		CHAR(1)	Component part status. This is blank if the component part is not installed, I if the component part is installed online, or B if the component is installed in batch.
TIME_INSTALLED		TIMESTAMP	Date and time when the component part was installed or defined.
USER_ID		CHAR(8)	ID of the user who installed or defined the component part.

DRLGROUPS

This system table contains one row for each defined report group.

Column name		Data type	Description
GROUP_NAME	K	VARCHAR(18)	Group ID.
GROUP_OWNER	K	CHAR(8)	Owner of the group. This is blank for a public group.
VERSION		VARCHAR(18)	Version level. The value of VERSION is set for an object when the object is defined and is taken from the value of keyword VERSION. For definitions supplied by IBM, the value is IBM.mmm[.APAR_number], where <i>mmm</i> is the version, release, modification level of the object.
DESCRIPTION		VARCHAR(50)	Description of the group that is shown in the dialog.
TIME_CREATED		TIMESTAMP	Date and time when the group was defined.
CREATOR		CHAR(8)	ID of the user who defined the group.

DRLGROUP_REPORTS

This system table contains one row for every report in each defined report group.

Column name		Data type	Description
GROUP_NAME	K	VARCHAR(18)	Group ID.
GROUP_OWNER	K	CHAR(8)	Owner of the group.
REPORT_NAME	K	VARCHAR(18)	ID of the report that belongs to the group.
REPORT_OWNER	K	CHAR(8)	Owner of the report that belongs to the group.

DRLREPORTS

This system table contains one row for each defined report.

Column name		Data type	Description
REPORT_NAME	K	VARCHAR(18)	Report ID.
REPORT_OWNER	K	CHAR(8)	Owner of the report. This is blank for a public report.
VERSION		VARCHAR(18)	Version level. The value of VERSION is set for an object when the object is defined and is taken from the value of keyword VERSION. For definitions supplied by IBM, the value is IBM. <i>mmm</i> [.APAR_number], where <i>mmm</i> is the version, release, modification level of the object.
DESCRIPTION		VARCHAR(50)	Description of the report that is shown in the dialog.
TYPE		CHAR(8)	Type of report. This is QUERY, TABDATA, or GRAPH.
BATCH		CHAR(1)	Y if the report should be produced in batch; N otherwise.
PRINT		CHAR(1)	Y if the report should be printed when produced in batch; N otherwise.
SAVE		CHAR(1)	Y if the report should be saved when produced in batch; N otherwise.
RUN_CYCLE		CHAR(8)	Batch run cycle for the report. This is DAILY, WEEKLY, or MONTHLY.
QUERY_PREFIX		CHAR(8)	Prefix of the QMF query that should be run when the report is produced.
QUERY		VARCHAR(18)	Name of the QMF query that should be run when the report is produced.
FORM_PREFIX		CHAR(8)	Prefix of the QMF form that should be used when the report is produced.
FORM		VARCHAR(18)	Name of the QMF form that should be used when the report is produced.
CHART		CHAR(8)	Name of the GDDM-ICU format to be used for the report. Blank means that the report is tabular.
FILE		CHAR(8)	Name of the member where the data is saved (if type is TABDATA or GRAPH), or where the data should be saved when the report is produced in batch (if save is Y).
MACRO		CHAR(8)	Not used.
TABLE_NAME		VARCHAR(254)	Name of the table or tables on which the report is based. This is extracted from the query when the report is defined.
NVARIABLES		SMALLINT	Number of variables defined for the report or extracted from the query.
NATTRIBUTES		SMALLINT	Number of attributes defined for the report.
TIME_CREATED		TIMESTAMP	Date and time when the report was defined.
CREATOR		CHAR(8)	ID of the user who defined the report.
REMARKS		VARCHAR(254)	Long free-format description of the report that can be entered from the dialog.
FINAL_SUMMARY		CHAR(3)	This is valid when QMF is not used. If FINAL_SUMMARY is set to YES, a row containing totals for all numeric columns is generated at the end of the report.

Column name		Data type	Description
ACROSS_SUMMARY		CHAR(3)	If ACROSS_SUMMARY is set to YES for a report of the Across type, a summary column is created to the right in the report. It contains one total value for each row. This is valid when QMF is not used.

DRLREPORT_ATTR

This system table contains one row for every attribute in each defined report.

Column name		Data type	Description
REPORT_NAME	K	VARCHAR(18)	Report ID.
REPORT_OWNER	K	CHAR(8)	Owner of the report. This is blank for a public report.
ATTRIBUTE_NO	K	SMALLINT	Attribute sequence number.
ATTRIBUTE		VARCHAR(18)	Attribute value.

DRLREPORT_COLUMNS

This system table contains one row for every column in each defined report if QMF is not used. The information is taken from the QMF form.

Column name		Data type	Description
REPORT_NAME	K	VARCHAR(18)	Report ID.
REPORT_OWNER	K	CHAR(8)	Owner of the report. This is blank for a public report.
COLUMN_NO	K	SMALLINT	Column number.
HEADING		VARCHAR(40)	Column heading.
USAGE		CHAR(7)	Usage code.
INDENT		SMALLINT	Column indentation.
WIDTH		SMALLINT	Column width.
EDIT		CHAR(5)	Edit code.
SEQ		SMALLINT	Column sequence number.
DEFINITION		VARCHAR(50)	The DEFINITION column can define an additional report column, which is not present in the SQL query. The definition must be a valid REXX expression, and may contain numeric constants and variables of the $\&n$ type, where n is an existing column number. The DEFINITION column is intended only for existing Tivoli Decision Support for z/OS reports and is not used for user-defined reports.

DRLREPORT_QUERIES

This system table contains one row for every query line in each defined report, if QMF is not used.

Column name		Data type	Description
REPORT_NAME	K	VARCHAR(18)	Report ID.
REPORT_OWNER	K	CHAR(8)	Owner of the report. This is blank for a public report.
LINE_NO	K	SMALLINT	Line number in the query.
QUERY_LINE		VARCHAR(80)	Query text.

Dialog system tables

DRLREPORT_TEXT

This system table is used for for host reports when QMF is not used. It contains one row for every heading and footing row. It also contains one row if there is a final summary line with a final text, and one row if there is an expression that limits the number of output rows in the report.

Column name		Data type	Description
REPORT_NAME	K	VARCHAR(18)	Report ID.
REPORT_OWNER	K	CHAR(8)	Owner of the report. This is blank for a public report.
TYPE	K	CHAR(8)	Text type. This is HEADING, FOOTING, DETAIL, FINAL or ROWS.
LINE_NO	K	SMALLINT	Line number for HEADING and FOOTING.
ALIGNMENT		CHAR(6)	Shows how the text should be aligned; left, center, or right.
TEXT		VARCHAR(55)	Text for one line of a report text (see TYPE above).

DRLREPORT_VARS

This system table contains one row for every variable in each defined report. The variables may be specified in the DEFINE REPORT statement or extracted from the query.

Column name		Data type	Description
REPORT_NAME	K	VARCHAR(18)	Report ID.
REPORT_OWNER	K	CHAR(8)	Owner of the report. This is blank for a public report.
VARIABLE_NO	K	SMALLINT	Sequence number of the variable.
VARIABLE_NAME		VARCHAR(18)	Name of the variable.
EXPRESSION		VARCHAR(80)	Expression in the query that is compared with the variable, if the variable is found in the query. This is used, with TABLE_NAME in the DRLREPORTS table, to find a list of possible values for the variable.
OPERATOR		CHAR(4)	Operator that is used when comparing the variable and the expression, if the variable is found in the query. This is =, <=, >=, IN, or LIKE.
DATA_TYPE		CHAR(8)	Data type of the variable, if specified. This is CHAR, NUMERIC, DATE, TIME, or TIMESTAMP.
REQUIRED		CHAR(1)	Shows whether the variable must be given a value. This is Y for yes, or N or blank for no.
DEFAULT		VARCHAR(40)	Default value to use for the variable, if specified.
IN_HEADER		CHAR(1)	Variable to determine if the Tivoli Decision Support for z/OS variable is used in the header. This is Y for yes, or N for no.
IN_HEADER_VALUE		VARCHAR(35)	Default header value for a non-required variable without a substitution value.

DRLSEARCH_ATTR

This system table contains one row for every attribute in each saved report search.

Column name		Data type	Description
SEARCH_NAME	K	VARCHAR(18)	Name of the saved search.
SEARCH_OWNER	K	CHAR(8)	Owner of the saved search. This is blank for a public search.

Column name		Data type	Description
ATTR_SET_NO	K	SMALLINT	Attribute set sequence number. The attribute sets are logically ORed together.
ATTRIBUTE_NO	K	SMALLINT	Attribute sequence number within the attribute set. The attributes within a set are logically ANDed together.
ATTRIBUTE		VARCHAR(18)	Attribute value. This can contain global search characters.

DRLSEARCHES

This system table contains one row for each saved report search.

Column name		Data type	Description
SEARCH_NAME	K	VARCHAR(18)	Name of the saved search.
SEARCH_OWNER	K	CHAR(8)	Owner of the saved search. This is blank for a public search.
DESCRIPTION		VARCHAR(50)	Description of the search that is shown in the dialog.
NATTR_SETS		SMALLINT	Number of attribute sets used in the search.
REPORT_DESC		VARCHAR(50)	Report description used in the search. This can contain global search characters.
REPORT_TYPE		CHAR(8)	Report type specified in the search.
REPORT_OWNER		CHAR(8)	Report owner specified in the search.
TIME_CREATED		TIMESTAMP	Date and time when the search was saved.
CREATOR		CHAR(8)	ID of the user who saved the search.

Views on DB2 and QMF tables

These views on DB2 tables are required for users without access to the tables.

View name	Description
DRLCOLUMNS	This view is based on SYSIBM.SYSCOLUMNS in the DB2 catalog. It is used to get column names and comments.
DRLINDEXES	This table is based on SYSIBM.SYSINDEXES in the DB2 catalog. It is used to get table index information.
DRLINDEXPART	This view is based on SYSIBM.SYSINDEXPART in the DB2 catalog. It is used to get index partition information.
DRLKEYS	This view is based on SYSIBM.SYSKEYS in the DB2 catalog. It is used to get information on index keys.
DRLOBJECT_DATA	This view is based on Q.OBJECT_DATA, a QMF control table that contains information about QMF objects.
DRLTABAUTH	This view is based on SYSIBM.SYSTABAUTH in the DB2 catalog. It is used to get table privilege information.
DRLTABLEPART	This view is based on SYSIBM.SYSTABLEPART in the DB2 catalog. It is used to get tablespace information.
DRLTABLES	This view is based on SYSIBM.SYSTABLES in the DB2 catalog. It is used to get a list of tables and comments for the tables.
DRLTABLESPACE	This view is based on SYSIBM.SYSTABLESPACE in the DB2 catalog. It is used to get a list of tablespaces.
DRLVIEWS	This view is based on SYSIBM.SYSVIEWS in the DB2 catalog. It is used to get view definitions.

Views

Views on Tivoli Decision Support for z/OS system tables

These views on Tivoli Decision Support for z/OS dialog system tables are required for users without access to the tables.

View Name	Description
DRLUSER_GROUPPREPS	This view is based on DRLGROUP_REPORTS. It allows a user to update only his own report groups.
DRLUSER_GROUPS	This view is based on DRLGROUPS. It allows a user to update only his own report groups.
DRLUSER_REPORTATTR	This view is based on DRLREPORT_ATTR. It allows a user to update only his own reports.
DRLUSER_REPORTS	This view is based on DRLREPORTS. It allows a user to update only his own reports.
DRLUSER_REPORTVARS	This view is based on DRLREPORT_VARS. It allows a user to update only his own reports.
DRLUSER_SEARCHATTR	This view is based on DRLSEARCH_ATTR. It allows a user to update only his own searches.
DRLUSER_SEARCHES	This view is based on DRLSEARCHES. It allows a user to update only his own searches.
DRLUSER_REPORTQRY	This view is based on DRLREPORT_QUERIES. It allows a user to update only his own reports.
DRLUSER_REPORTCOLS	This view is based on DRLREPORT_COLUMNS. It allows a user to update only his own reports.
DRLUSER_REPORTTEXT	This view is based on DRLREPORT_TEXT. It allows a user to update only his own reports.

Chapter 17. Control tables and common tables

This chapter describes control tables and common tables. These tables are used by many Tivoli Decision Support for z/OS components. The tables are provided with the Tivoli Decision Support for z/OS base.

Each table description includes information about the table, and a description of each key column and data column in the table.

Key columns are marked with a “K”.

Data columns come after the last key column and are sorted in alphabetic order, with any underscores ignored.

The tables appear in alphabetic order, with any underscores ignored.

Note: Data tables with similar contents (that is, data tables with the same name but different suffixes) are described under one heading. For example, “AVAILABILITY_D, _W, _M” on page 311 contains information about three similar tables:

```
AVAILABILITY_D
AVAILABILITY_W
AVAILABILITY_M
```

Except for the DATE column and TIME column, the contents of these three tables are identical. Differences in the contents of similar tables are explained in the column descriptions.

The DATE and TIME information are stored in the standard DB2 format and displayed in the local format.

Control tables

The control tables are created during installation of the Tivoli Decision Support for z/OS base. The tables control results returned by some log collector functions.

Control tables appear in the tables list in the administration dialog.

DAY_OF_WEEK

This control table defines the day type to be returned by the DAYTYPE function for each day of the week. The day type is used as a key in the PERIOD_PLAN and SCHEDULE control tables.

Column name		Data type	Description
DAY_OF_WEEK	K	SMALLINT	Day of week number, 1 through 7 (Monday through Sunday).
DAY_TYPE		CHAR(8)	Day type for the day of week.

Example of table contents

```
DAY
OF DAY
WEEK TYPE
-----
```

Control tables

1 MON
 2 TUE
 3 WED
 4 THU
 5 FRI
 6 SAT
 7 SUN

PERIOD_PLAN

This control table defines the periods to be returned by the PERIOD function, which is described in the *Language Guide and Reference*. A period plan defines the partition of a day into periods (such as shifts) for each day type defined by the DAY_OF_WEEK and SPECIAL_DAY control tables.

Column name		Data type	Description
PERIOD_PLAN_ID	K	CHAR(8)	You can have different sets of period names for different systems. Each application normally uses a system ID from the log to match this field, for example the MVS system ID for an MVS performance application. Specify % for the rows that specify your default set of period names. This can contain global search characters.
DAY_TYPE	K	CHAR(8)	Day type the period applies to. This can be any of the day types specified in the DAY_OF_WEEK and SPECIAL_DAY control tables.
START_TIME	K	TIME	Time when the period starts.
END_TIME		TIME	Time when the period ends.
PERIOD_NAME		CHAR(8)	Name of the period.

Example of table contents

```

PERIOD
PLAN  DAY   START  END    PERIOD
ID    TYPE   TIME   TIME   NAME
-----
%     MON    00.00.00 08.00.00 NIGHT
%     MON    08.00.00 17.00.00 PRIME
%     MON    17.00.00 24.00.00 NIGHT
%     TUE    00.00.00 08.00.00 NIGHT
%     TUE    08.00.00 17.00.00 PRIME
%     TUE    17.00.00 24.00.00 NIGHT
%     WED    00.00.00 08.00.00 NIGHT
%     WED    08.00.00 17.00.00 PRIME
%     WED    17.00.00 24.00.00 NIGHT
%     THU    00.00.00 08.00.00 NIGHT
%     THU    08.00.00 17.00.00 PRIME
%     THU    17.00.00 24.00.00 NIGHT
%     FRI    00.00.00 08.00.00 NIGHT
%     FRI    08.00.00 17.00.00 PRIME
%     FRI    17.00.00 24.00.00 NIGHT
%     SAT    00.00.00 24.00.00 WEEKEND
%     SUN    00.00.00 24.00.00 WEEKEND
%     HOLIDAY 00.00.00 24.00.00 HOLIDAY
  
```

SCHEDULE

This control table defines the schedules to be returned by the APPLY SCHEDULE function. A schedule is a time period when a resource is planned to be up; it is used in availability calculations.

Column name		Data type	Description
SCHEDULE_NAME	K	CHAR(8)	Name of the schedule. By giving different names to schedules, you can have different schedules for the various systems or resources. The AVAILABILITY_PARM table controls which schedule name to use for a resource.
DAY_TYPE	K	CHAR(8)	Day type the schedule applies to. This can be any of the day types specified in the DAY_OF_WEEK and SPECIAL_DAY control tables.
START_TIME	K	TIME	Time when the schedule starts.
END_TIME		TIME	Time when the schedule ends.

Example of table contents

SCHEDULE NAME	DAY TYPE	START TIME	END TIME
STANDARD	MON	08.00.00	17.00.00
STANDARD	TUE	08.00.00	17.00.00
STANDARD	WED	08.00.00	17.00.00
STANDARD	THU	08.00.00	17.00.00
STANDARD	FRI	08.00.00	17.00.00
STANDARD	SAT	00.00.00	00.00.00
STANDARD	SUN	00.00.00	00.00.00
STANDARD	HOLIDAY	00.00.00	00.00.00

SPECIAL_DAY

This control table defines the day type to be returned by the DAYTYPE function for special dates such as holidays. The day type is used as a key in the PERIOD_PLAN and SCHEDULE control tables.

Column name		Data type	Description
DATE	K	DATE	Date to be defined as special day.
DAY_TYPE		CHAR(8)	Day type for the date; for example, HOLIDAY.

Example of table contents

DATE	DAY TYPE
1999-12-25	HOLIDAY
2000-01-01	HOLIDAY

AGGR_VALUE

This table is to be used to assign a default value to a key field if it is not required in the aggregation. If a record is found in the AGGR_VALUE for a particular table and column, then the default value is used in the aggregation. This has the potential to reduce the number of rows collected for that particular table.

Column name		Data type	Description
AGGR_TABLE	K	CHAR(18)	Name of TDS table.
AGGR_COLUMN	K	CHAR(18)	Name of TDS column.
AGGR_DEF_VALUE		CHAR(16)	Default value to assign to field.

Control tables

Example of table contents

AGGR TABLE	AGGR COLUMN	AGGR DEF VALUE
DB2_PACKAGE_H	CORRELATION_ID	\$USER
DB2_PACKAGE_H	PRIMARY_AUTH_ID	\$USER

CICS control tables

The CICS control tables are created during installation of the Tivoli Decision Support for z/OS base. The tables control results returned by some log collector functions during CICS log data collection.

CICS control tables appear in the tables list in the administration dialog.

CICS_DICTIONARY

This control table is used during CICS log data collection. The CICS record procedure, DRL2CICS, uses CICS_DICTIONARY to store the latest dictionary record processed for each unique combination of MVS_SYSTEM_ID, CICS_SYSTEM_ID, CLASS and VERSION. For more information, refer to the *CICS Performance Feature Guide and Reference*.

Column name		Data type	Description
MVS_SYSTEM_ID	K	CHAR(4)	MVS system ID. From SMFMNSID (V3) or SMFSID (V2).
CICS_SYSTEM_ID	K	CHAR(8)	CICS generic ID. This is the VTAM® application identifier for the CICS system that produced the dictionary. From SMFMNPRN (V3) or SMFSPRN (V2).
CLASS	K	SMALLINT	Monitoring class. This is 2 for accounting (CICS/MVS V2 only), 3 for performance data, and 4 for exception data (CICS/MVS V2 only). From SMFMNCL (V3) or MNSEGCL (V2).
VERSION	K	SMALLINT	Version of the CICS system that produced the dictionary. This is 2 for CICS/MVS (V2) and 3 for CICS/ESA (V3). Set by DRL2CICS based on SMFMNSTY (V3) or SMFSTY (V2).
FIELD_NO	K	SMALLINT	Assigned connector for this dictionary entry (CMODCONN). This is also the index to the dictionary entry array.
CICS_VER	K	CHAR(4)	CICS version and release that created this dictionary (from the field SMFMNVRN). EX. 0410.
DICTIONARY_ENTRY_ID		CHAR(12)	Dictionary entry ID. It is made up of the CMODNAME, CMODTYPE and CMODIDNT fields in the dictionary entry. It is used to uniquely identify each dictionary entry.
OUTPUT_LENGTH		SMALLINT	Field length for matching DICTIONARY_ENTRY_ID in CICS_FIELD. It is used for building the output record.
OUTPUT_OFFSET		SMALLINT	Field offset for matching DICTIONARY_ENTRY_ID in CICS_FIELD. It is used for building the output record.
USED		CHAR(8)	A flag indicating (if = Y) that this dictionary entry has been updated with field length and offset data from a matching DICTIONARY_ENTRY_ID in CICS_FIELD.

CICS_FIELD

This control table is used during CICS log data collection. The CICS record procedure, DRL2CICS, uses CICS_FIELD to store field lengths and offsets for

dictionary fields described in “CICS_DICTIONARY” on page 310. For more information, refer to the *CICS Performance Feature Guide and Reference*.

Column name		Data type	Description
CLASS	K	SMALLINT	CMF record class. 2 for accounting (CICS/MVS V2 only), 3 for performance data (transaction and global (CICS/MVS V2 only)) and 4 for exception data (CICS/MVS V2 only).
DICTIONARY_ENTRY_ID	K	CHAR(12)	This is the dictionary entry ID. It is made up of the CMODNAME, CMODTYPE and CMODIDNT fields in the dictionary entry. It is used to uniquely identify each dictionary entry.
FIRST_CICS_VER	K	CHAR(4)	This is first version of CICS that introduced this CMODTYPE and CMODIDNT with these attributes. This allows multiple versions of the same key as many fields were changed with CICS TS 3.2
OUTPUT_LENGTH		SMALLINT	This is the field length that is used to build the output record.
OUTPUT_OFFSET		INTEGER	This is the field offset that is used to build the output record. This offset should match the SMF_CICS_T, _G, _A, _E2 record definitions.

Common data tables

These tables are ordinary data tables that are used by many components. They are provided with the Tivoli Decision Support for z/OS base, but not created until the installation of the first component that uses them.

Naming standard for common data tables

Names of Tivoli Decision Support for z/OS common data tables are in this format:

content_suffix

where:

- *content* is a description (for example, AVAILABILITY for system and resource availability data).
- *suffix* indicates the summarization level of the data in the table (for example, AVAILABILITY_D for availability data summarized by day).

A common table name can have these summarization-level suffixes:

_T The table holds nonsummarized data (**timestamped** data).

_D The table holds data summarized by **day**.

_W The table holds data summarized by **week**.

_M The table holds data summarized by **month**.

AVAILABILITY_D, _W, _M

These tables provide daily, weekly, and monthly statistics on the availability of systems and subsystems. They contain consolidated data from the AVAILABILITY_T table.

The default retention periods for these tables are:

AVAILABILITY_D 90 days

AVAILABILITY_W 400 days

AVAILABILITY_M 800 days

Common data tables

Column name		Data type	Description
DATE	K	DATE	Date that the availability data applies to. For the _W table, this is the date of the first day of the week. For the _M table, this is the date of the first day of the month.
SYSTEM_ID	K	CHAR(8)	System ID such as an MVS or VM system ID.
AREA	K	CHAR(8)	Major area the resource is related to, such as MVS or NETWORK.
RESOURCE_TYPE	K	CHAR(8)	Resource type.
RESOURCE_NAME	K	CHAR(8)	Resource name.
RESOURCE_GROUP	K	CHAR(8)	Resource group.
AVAIL_OBJ_PCT		DECIMAL(4,1)	Availability objective for the resource, in percent. This is from the column AVAIL_OBJ_PCT in the AVAILABILITY_PARM lookup table. This value should be compared with the actual availability, which is calculated as: 100*UP_IN_SCHEDULE/SCHEDULE_HOURS.
MEASURED_HOURS		FLOAT	Number of hours measured.
SCHEDULE_DAYS		SMALLINT	Number of days during the week or month that the resource was scheduled to be up. This column is only present in the _W and _M tables.
SCHEDULE_HOURS		FLOAT	Number of hours the resource was scheduled to be up.
STARTS		SMALLINT	Number of times the resource was started.
STARTS_IN_SCHEDULE		SMALLINT	Number of times the resource was started within the schedule.
STOPS		SMALLINT	Number of times the resource was stopped.
STOPS_IN_SCHEDULE		SMALLINT	Number of times the resource was stopped within the schedule.
UP_HOURS		FLOAT	Number of hours the resource was up.
UP_IN_SCHEDULE		FLOAT	Number of hours the resource was up within the schedule.

AVAILABILITY_T

This table provides detailed availability data about the system as a whole and all its subsystems. The data comes from many different sources. For every resource tracked, this table contains one row for each time interval with a different status.

The default retention period for this table is 10 days.

Column name		Data type	Description
SYSTEM_ID	K	CHAR(8)	System ID such as an MVS or VM system ID.
AREA	K	CHAR(8)	Major area the resource is related to, such as MVS or NETWORK.
RESOURCE_TYPE	K	CHAR(8)	Resource type.
RESOURCE_NAME	K	CHAR(8)	Resource name.
RESOURCE_GROUP	K	CHAR(8)	Resource group.

Column name		Data type	Description
INTERVAL_TYPE	K	CHAR(3)	Interval type. Possible values are: ==, =, = , = , XXX, XX, XX , X , and blank, where: = Indicates that the resource is up (available) X Indicates that the resource is down Indicates an interval start or end blank Means that the status is unknown
START_TIME	K	TIMESTAMP	Start time of the interval.
END_TIME		TIMESTAMP	End time of the interval.
QUIET_INTERVAL_SEC		INTEGER	Number of seconds after the interval end that the resource is expected to remain in the same status. If another interval with a start time within this range appears, the two intervals are merged.

EXCEPTION_T

This table provides a list of exceptions that have occurred in the system and require attention. The data comes from many different sources.

The layout of this table cannot be changed by the user.

The default retention period for this table is 14 days.

Column name		Data type	Description
DATE	K	DATE	Date when the exception occurred.
TIME	K	TIME	Time when the exception occurred.
SYSTEM_ID	K	CHAR(8)	System where the exception occurred.
AREA	K	CHAR(8)	Major area the exception is related to, such as MVS or NETWORK.
EXCEPTION_ID	K	VARCHAR(18)	Short description of the exception type. This can be used to count the number of exceptions of different types.
RESOURCE_NAME1	K	CHAR(8)	Name of the first resource that the exception is related to.
RESOURCE_NAME2	K	CHAR(8)	Name of the second resource that the exception is related to.
DATE_GENERATED		DATE	Date when the problem was recorded in the Information/Management database. This is null if no problem record has been generated.
EXCEPTION_DESC		VARCHAR(45)	Text that describes the exception, in any format.
PROBLEM_FLAG		CHAR(1)	Controls whether a problem record should be automatically generated for the exception. This can be Y (generate a problem record) or N (do not generate a problem record).
PROBLEM_NUMBER		CHAR(8)	The Information/Management problem-record number. This is null if no problem record has been generated.
SEVERITY		CHAR(2)	Severity of the problem. This is user-defined.
TRANSACTION_NUMBER		INTEGER	Transaction identifier number.
TRANSACTION_CHAR		CHAR(4)	Transaction number in character format. (in some special cases CICS system tasks are identified as III, JBS, J01-J99, TCB.)
PROGRAM_NAME		CHAR(8)	Name of the program.

Common data tables

MIGRATION_LOG

This table holds information on what migration jobs have been run, and the results of each step.

The layout of this table cannot be changed by the user.

The default retention period for this table is 14 days.

Column name		Data type	Description
JOB_NAME	K	CHAR(8)	Migration job name.
STEP_NO	K	INTEGER	Step number of job.
START_DATE	K	DATE	Start date of job.
START_TIME	K	TIME	Start time of job.
STEP_NAME		CHAR(30)	Step name of job.
RETURN_CODE		INTEGER	Step status code.
COMPLETED_CODE		CHAR	Y – Completed successfully U – Abend
END_DATE		DATE	End date of last migration step.
END_TIME		TIME	End time of last migration step.

Common lookup tables

These tables are ordinary lookup tables that are used by many components. They are provided with the Tivoli Decision Support for z/OS base, but not created until the installation of the first component that uses them.

AVAILABILITY_PARM

This lookup table sets availability parameters. It contains the schedule names and availability objectives to use for the different resources in the system. Its values are used in the AVAILABILITY_D, _W, and _M tables.

Column name		Data type	Description
SYSTEM_ID	K	CHAR(8)	System ID associated with the resource. This can contain global search characters.
AREA	K	CHAR(8)	Major area that the resource is related to, such as MVS or NETWORK. This can contain global search characters.
RESOURCE_TYPE	K	CHAR(8)	Resource type. This can contain global search characters.
RESOURCE_NAME	K	CHAR(8)	Resource name. This can contain global search characters.
RESOURCE_GROUP	K	CHAR(8)	Resource group. This can contain global search characters.
AVAIL_OBJ_PCT		DECIMAL(4,1)	Availability objective for the resource, in percent.
SCHEDULE_NAME		CHAR(8)	Schedule name to use for the resource.

Example of table contents

SYSTEM ID	AREA	RESOURCE TYPE	RESOURCE NAME	RESOURCE GROUP	SCHEDULE NAME	AVAIL OBJ PCT
-----	-----	-----	-----	-----	-----	-----

% % % % % STANDARD 95.0
 ⋮

USER_GROUP

This lookup table groups the users of the system into user groups. The values are used in many tables. You can also assign division and department names to the user groups; however, the names are left blank in the predefined tables.

Column name		Data type	Description
SYSTEM_ID	K	CHAR(8)	System ID such as an MVS or VM system ID. This can contain global search characters.
SUBSYSTEM_ID	K	CHAR(8)	Subsystem ID such as TSO or a CICS* system ID. This can contain global search characters. This is not used in the predefined tables.
USER_ID	K	CHAR(8)	User ID of the user to be grouped. This can contain global search characters.
DEPARTMENT		CHAR(8)	Department that the user belongs to. This is not used in the predefined tables.
DIVISION		CHAR(8)	Division that the user belongs to. This is not used in the predefined tables.
GROUP_NAME		CHAR(8)	Name of the group that the user belongs to.

Example of table contents

SYSTEM ID	SUBSYSTEM ID	USER ID	DIVISION	DEPARTMENT	GROUP NAME
-----	-----	-----	-----	-----	-----
*	*	USER1			GROUP1
*	*	USER2			GROUP2
⋮					

Common lookup tables

Chapter 18. Sample components

This appendix describes the Sample component, the only component shipped with the Tivoli Decision Support for z/OS base product.

Sample component

You can use the Sample component for testing the installation of the base product or to demonstrate Tivoli Decision Support for z/OS.

The sample component consists of:

- A sample log and record definition
- Three sample tables with update definitions
- Three sample reports
- A log data set with sample data that can be collected

Figure 119 shows an overview of the flow of data from the sample log data set, DRLSAMPL (in the DRLxxx.SDRLDEFS library), through the Sample component of Tivoli Decision Support for z/OS, and finally into reports.

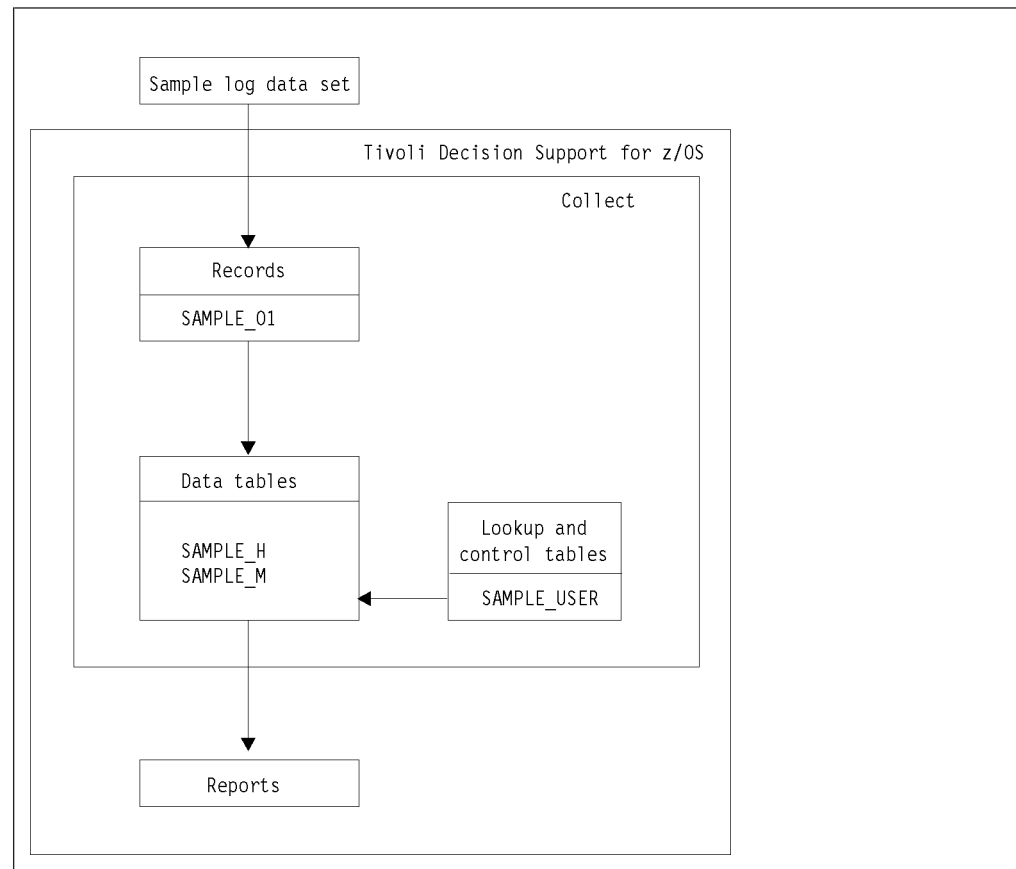


Figure 119. Sample data flow

Data tables

SAMPLE_H, _M data tables

These tables provide hourly and monthly sample data.

Column name		Data type	Description
DATE	K	DATE	Date. For the _M table, this is the date of the first day of the month. From S01DATE.
TIME	K	TIME	Time rounded down to the nearest hour. This applies only to the _H table. From S01TIME.
SYSTEM_ID	K	CHAR(4)	System ID. From S01SYST.
DEPARTMENT_NAME	K	CHAR(8)	Department name. From DEPARTMENT_NAME in the SAMPLE_USER lookup table. This is derived using field S01USER from the record as key.
USER_ID	K	CHAR(8)	User ID. From S01USER.
CPU_SECONDS		FLOAT	Total processor time, in seconds. Calculated as the sum of S01CPU/100.0.
PAGES_PRINTED		INTEGER	Number of pages printed. This is the sum of S01PRNT.
RESPONSE_SECONDS		INTEGER	Total response time, in seconds. This is the sum of S01RESP.
TRANSACTIONS		INTEGER	Number of transactions. This is the sum of S01TRNS.

SAMPLE_USER lookup table

This lookup table assigns department names to users.

Column name		Data type	Description
USER_ID	K	CHAR(8)	User ID
DEPARTMENT_NAME		CHAR(8)	Department name

Example of table contents

USER ID	DEPARTMENT NAME
-----	-----
ADAMS	App1 Dev
GEYER	Finance
GOUNOT	Retail
HAAS	Finance
JONES	App1 Dev
KWAN	Marketng
LEE	Manufact
LUTZ	Manufact
MARINO	Retail
MEHTA	Manufact
PARKER	Finance
PEREZ	Retail

Sample components reports

In the report descriptions that follow, this information is included:

Heading

The title of the report.

Introduction

A brief introduction to the purpose of the report.

Report ID

Tivoli Decision Support for z/OS assigns each

	report a unique report identifier. Each report ID consists of SAMPLE and a sequential number, such as SAMPLE01.
Report group	To make it easier to find reports, Tivoli Decision Support for z/OS organizes reports into report groups, which correspond to feature components. Sample component reports belong to the Sample report group.
Source	Each Sample report contains information adapted from either the SAMPLE_H or SAMPLE_M source tables.
Attributes	Attributes are keys that you can use to search for a particular report. The Sample component reports each have one attribute, Sample.
Variables	Each report has several variables associated with it. When you select a report to display, Tivoli Decision Support for z/OS prompts you for the variables listed in the description.
Example report Column descriptions	Each example illustrates a typical report. Column descriptions identify the information contained within the report, in detail. If the column contains a calculated value, the formula used for the calculation is included.

Sample Report 1

This surface chart shows the processor time consumed by different projects. It gives an hourly profile for an average day.

This information identifies the report:

Report ID	SAMPLE01
Report group	Sample Reports
Source	SAMPLE_H
Chart format	DRLGSURF
Attributes	Sample
Variables	System ID

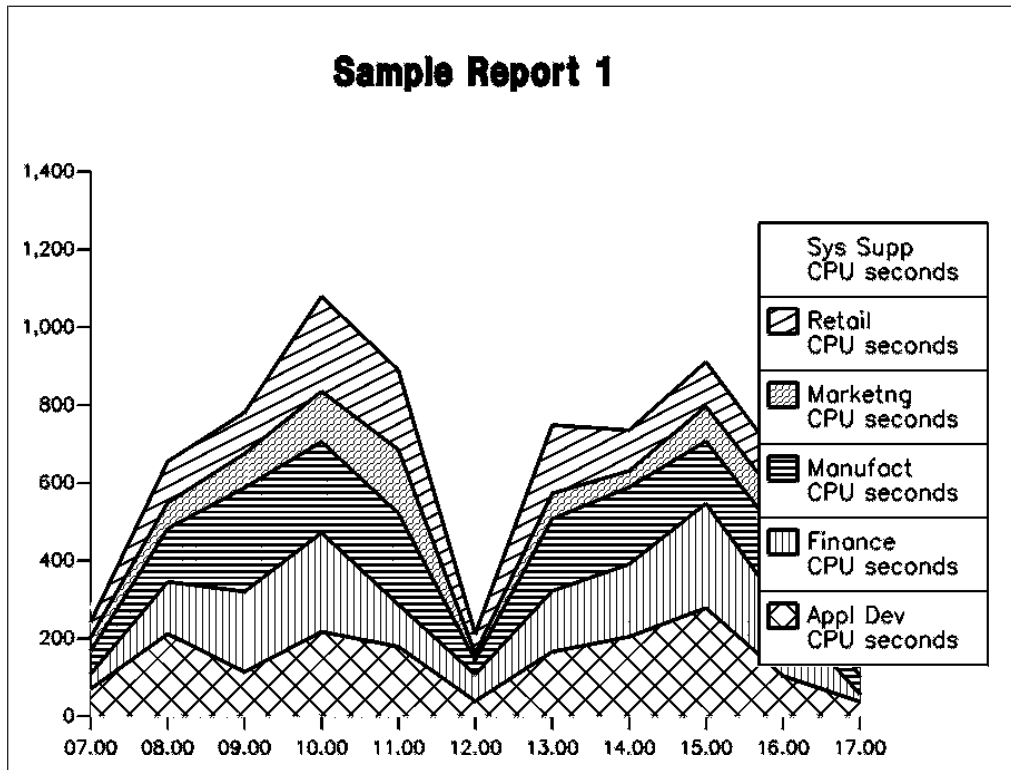


Figure 120. Sample Report 1

The report contains this information:

Horizontal axis	Hour, in the format <i>hh.mm</i>
Vertical axis	Processor time, in seconds
Legend	Department name

Sample Report 2

This report shows the resources consumed by each user and department.

This information identifies the report:

Report ID	SAMPLE02
Report group	Sample Reports
Source	SAMPLE_M
Attributes	Sample
Variables	From_month, To_month, System_ID

Sample Report 2

Month start date	Department name	User ID	Trans- actions	Average response seconds	CPU seconds	Pages printed
2000-01-01	Appl Dev	ADAMS	1109	3.84	244.13	821
		JONES	1138	3.40	228.79	1055
		SMITH	870	4.27	183.03	864
		*	3117	3.84	655.95	2740
	Finance	GEYER	509	4.29	115.97	529
		HAAS	786	3.56	137.48	648
		PARKER	462	6.79	171.51	704
		SPENCER	800	3.33	172.82	640
		*	2557	4.50	597.78	2521
	:			===== 36396	===== 4.03	===== 7868.97

Tivoli Decision Support for z/OS Report: SAMPLE02

Figure 121. Sample Report 2

The columns in this report contain this information:

Month start date	Date of the first day in the month.
Department name	Name of the department that the user belongs to.
User ID	ID of the user.
Transactions	Number of transactions run by the user.
Average response seconds	The average response time, in seconds for all transactions. Calculated as RESPONSE_SECONDS/TRANSACTIONS.
CPU seconds	Number of processor seconds consumed.
Pages printed	Number of pages printed.

Sample Report 3

This bar chart shows the processor time consumed by each project during the selected time period, sorted as a toplist.

This information identifies the report:

Report ID	SAMPLE03
Report group	Sample Reports
Source	SAMPLE_M
Chart format	DRLGHORB
Attributes	Sample
Variables	From_date, To_date, System_ID

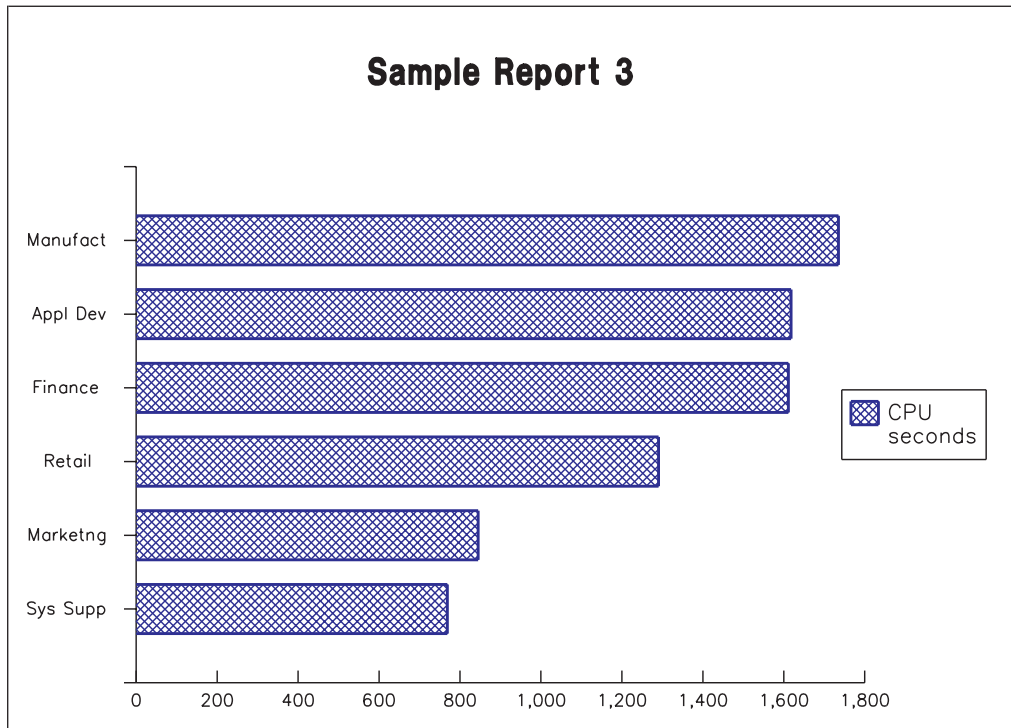


Figure 122. Sample Report 3

The report contains this information:

Horizontal axis Processor time, in seconds
Vertical axis Department name

Chapter 19. Record definitions supplied with Tivoli Decision Support for z/OS

In addition to the records used by the components, the Tivoli Decision Support for z/OS base product contains definitions of many records. This chapter lists all the records defined by the base product, except for those built by Tivoli Decision Support for z/OS exits and utilities.

SMF records

Record name	Member name	Description
SMF_000	DRLRS000	IPL
SMF_002	DRLRS002	Dump header
SMF_003	DRLRS003	Dump trailer
SMF_004	DRLRS004	Step termination
SMF_005	DRLRS005	Job termination
SMF_006	DRLRS006	JES2/JES3/PSF/External writer
SMF_007	DRLRS007	Data lost
SMF_008	DRLRS008	I/O configuration
SMF_009	DRLRS009	VARY device ONLINE
SMF_010	DRLRS010	Allocation recovery
SMF_011	DRLRS011	VARY device OFFLINE
SMF_014	DRLRS014	INPUT or RDBACK data set activity
SMF_015	DRLRS015	OUTPUT, UPDAT, INOUT, or OUTIN data set activity
SMF_016	DRLRS016	DFSORT statistics
SMF_017	DRLRS017	Scratch data set status
SMF_018	DRLRS018	Rename data set status
SMF_019	DRLRS019	Direct access volume
SMF_020	DRLRS020	Job initiation
SMF_021	DRLRS021	Error statistics by volume
SMF_022	DRLRS022	Configuration
SMF_023	DRLRS023	SMF status
SMF_024	DRLRS024	JES2 spool offload
SMF_025	DRLRS025	JES3 device allocation
SMF_026	DRLRS026	JES2/JES3 job purge
SMF_028	DRLRS028	NPM statistics. SMF_028 maps all subtypes of SMF type 28. To improve performance, the subtypes used by Tivoli Decision Support for z/OS are mapped with special record definitions (SMF_028_xxx). Note that SMF_028 cannot be used together with these definitions because each log record can be mapped by only one record definition.
SMF_028_NTRI	DRLRSNTR	NPM NTRI statistics
SMF_028_TRANSIT	DRLRSNTT	NPM transit time statistics

SMF records

Record name	Member name	Description
SMF_028_TRANS_SUM	DRLRSNT1	NPM Transit Time summary statistics
SMF_028_X25	DRLRSX25	NPM X25 statistics
SMF_028_PU	DRLRSNPU	NPM PU statistics
SMF_028_NPM	DRLRSNPM	NPM internal statistics
SMF_028_LINE	DRLRSNLI	NPM line statistics
SMF_028_NEO	DRLRSNEO	NPM NEO statistics
SMF_028_NCP	DRLRSNCP	NPM NCP statistics
SMF_028_LAN	DRLRSLAN	NPM LAN statistics
SMF_028_VTAM	DRLRSVTM	NPM VTAM statistics
SMF_030	DRLRS030	Common address space work
SMF_031	DRLRS031	TIOC initialization
SMF_032	DRLRS032	TSO user work accounting
SMF_033	DRLRS033	APPC/MVS TP accounting
SMF_034	DRLRS034	TS-step termination
SMF_035	DRLRS035	LOGOFF
SMF_036	DRLRS036	ICF catalog
SMF_037_HW	DRLRS037	NetView Hardware Monitor
SMF_037_VPD	DRLRSVPD	Network configuration (VPD)
SMF_039_1_TO_7	DRLRS039	NetView Session Monitor, SMF 39, subtypes 1 to 7
SMF_039_8	DRLRS039	NetView Session Monitor, SMF 39, subtype 8
SMF_040	DRLRS040	Dynamic DD
SMF_041	DRLRS041	Data-in-virtual Access/Unaccess
SMF_042_1	DRLRS042	BMF performance statistics
SMF_042_2	DRLRS042	DFP cache control unit statistics
SMF_042_3	DRLRS042	DFP SMS configuration statistics
SMF_042_5	DRLRSX42	DFSMS storage class statistics
SMF_042_6	DRLRSX42	DFSMS Data Set statistics
SMF_042_14	DRLRADSM	ADSTAR Distributed Storage Manager (ADSM) server statistics
SMF_042_11	DRLRSX42	DFP Extended Remote Copy (XRC) session statistics
SMF_043_2	DRLRS043	JES2 start
SMF_043_5	DRLRS043	JES3 start
SMF_045_2	DRLRS045	JES2 withdrawal
SMF_045_5	DRLRS045	JES3 stop
SMF_047_2	DRLRS047	JES2 SIGNON/start line (BSC only)
SMF_047_5	DRLRS047	JES3 SIGNON/start line/LOGON
SMF_048_2	DRLRS048	JES2 SIGNOFF/stop line (BSC only)
SMF_048_5	DRLRS048	JES3 SIGNOFF/stop line/LOGOFF
SMF_049_2	DRLRS049	JES2 integrity (BSC only)
SMF_049_5	DRLRS049	JES3 integrity
SMF_050	DRLRS050	ACF/VTAM* tuning statistics
SMF_052	DRLRS052	JES2 LOGON/start line (SNA only)

Record name	Member name	Description
SMF_053	DRLRS053	JES2 LOGOFF/start line (SNA only)
SMF_054	DRLRS054	JES2 integrity (SNA only)
SMF_055	DRLRS055	JES2 network SIGNON
SMF_056	DRLRS056	JES2 network integrity
SMF_057_2	DRLRS057	JES2 network SYSOUT transmission
SMF_057_5	DRLRS057	JES3 networking transmission
SMF_058	DRLRS058	JES2 network SIGNOFF
SMF_059	DRLRS059	MVS/BDT file-to-file transmission
SMF_060	DRLRS060	VSAM volume data set updated
SMF_061	DRLRS061	ICF define activity
SMF_062	DRLRS062	VSAM component or cluster opened
SMF_063	DRLRS063	VSAM entry defined
SMF_064	DRLRS064	VSAM component or cluster status
SMF_065	DRLRS065	ICF delete activity
SMF_066	DRLRS066	ICF alter activity
SMF_067	DRLRS067	VSAM entry delete
SMF_068	DRLRS068	VSAM entry renamed
SMF_069	DRLRS069	VSAM data space defined, extended, or deleted
SMF_070	DRLRS070	RMF™ CPU activity
SMF_071	DRLRS071	RMF paging activity
SMF_072_1	DRLRS072	RMF workload activity
SMF_072_2	DRLRSX72	RMF storage data
SMF_072_3	DRLRS072	RMF goal mode workload activity
SMF_072_4	DRLRSX72	RMF goal mode delay and storage frame data
SMF_073	DRLRS073	RMF channel path activity
SMF_074_1	DRLRS074	RMF device activity
SMF_074_2	DRLRS074	RMF XCF activity
SMF_074_3	DRLRSX74	RMF Device OMVS activity
SMF_074_4	DRLRSX74	RMF XES/CF activity
SMF_074_6	DRLRX74	File system statistics
SMF_075	DRLRS075	RMF page/swap data set activity
SMF_076	DRLRS076	RMF trace activity
SMF_077	DRLRS077	RMF enqueue activity
SMF_078_1	DRLRS078	RMF I/O queueing activity for the 308x, 908x, and 4381 processors
SMF_078_2	DRLRS078	RMF virtual storage activity
SMF_078_3	DRLRS078	RMF I/O queueing activity for the 3090, 9021, 9121, and 9221 processors
SMF_079	DRLRS079	RMF Monitor II activity
SMF_080	DRLRS080	RACF processing
SMF_081	DRLRS081	RACF initialization
SMF_082_1	DRLRS082	PCF record

SMF records

Record name	Member name	Description
SMF_082_2	DRLRS082	CUSP record
SMF_083	DRLRS083	RACF audit record for data sets
SMF_084_1	DRLRS084	JMF - FCT analysis
SMF_084_2	DRLRS084	JMF - FCT summary and highlights
SMF_084_3	DRLRS084	JMF - spool data management
SMF_084_4	DRLRS084	JMF - resqueue cellpool, JCT and control block utilization
SMF_084_5	DRLRS084	JMF - job analysis
SMF_084_6	DRLRS084	JMF - JES3 hot spot analysis
SMF_084_7	DRLRS084	JMF - JES internal reader DSP analysis
SMF_084_8	DRLRS084	JMF - JES3 SSI response time analysis
SMF_084_9	DRLRS084	JMF - JES3 SSI destination queue analysis
SMF_085	DRLRS085	OAM record
SMF_088	DRLRS088	System logger
SMF_089	DRLRS089	Product Usage Data
SMF_090	DRLRS090	System status
SMF_092	DRLRS092	z/OS UNIX activity
SMF_094	DRLRS094	3494, 3495 Tape library data server statistics
SMF_099	DRLRS099	SMS System Resource Manager decisions
SMF_100_0	DRLRS100	DB2 statistics, system services
SMF_100_1	DRLRS100	DB2 statistics, database services
SMF_100_2	DRLRS100	DB2 statistics, dynamic ZPARMs
SMF_100_3	DRLRS100	DB2 statistics, Buffer, Manager Group Buffer Pool
SMF_101	DRLRS101	DB2 accounting
SMF_101_1	DRLRS101	DB2 accounting, Packages extension
SMF_102	DRLRS102	DB2 system initialization parameters
SMF_110_0	DRLRS110	CICS/ESA journaling record
SMF_110_0_V2	DRLRS110	CICS/MVS monitoring record
SMF_110_1	DRLRS110	CICS/ESA monitoring record
SMF_110_1_1	DRLRS110	CICS/TS <3.2 record
SMF_110_1_5	DRLR110T	CICS transaction resource - expanded
SMF_110_2	DRLR1102	CICS/ESA and CICS/TS statistics record
SMF_110_3	DRLRS1103	CICS/TS statistics record
SMF_110_4	DRLR1103	CICS/TS CF statistics record
SMF_110_5	DRLR1103	CICS/TS NC statistics record
SMF_110_1_C	DRLRS110	CICS/TS 3.2+ - may be compressed
SMF_110_1_CO	DRLRS110	CICS/TS 3.2+ - expanded
SMF_110_E	DRLRS110	CICS/ESA exception record - expanded
SMF_112_203_C	DRLRS112	OMEGAMON [®] XE for CICS file and database usage – compressed
SMF_112_203	DRLRS112	OMEGAMON XE for CICS file and database usage – expanded
SMF_114_1	DRLRS114	System Automation Tracking
SMF_115	DRLRS115	WebSphere MQ for z/OS statistics

Record name	Member name	Description
SMF_116	DRLRS116	WebSphere MQ for z/OS statistics
SMF_117	DRLRS117	Websphere Message Broker
SMF_118_1	DRLRS118	TCP/IP API calls record
SMF_118_3	DRLRS118	TCP/IP FTP client calls record
SMF_118_4	DRLRS118	TCP/IP TELNET client calls record
SMF_118_20	DRLRS118	TCP/IP TELNET server record
SMF_118_5	DRLRS118	TCP/IP general statistics record
SMF_118_70	DRLRS118	TCP/IP FTP server record
SMF_119_1	DRLRS119	TCP connection initiation
SMF_119_2	DRLRS119	TCP connection termination
SMF_119_3	DRLRS119	FTP client transfer completion
SMF_119_4	DRLRS119	TCP/IP Profile Information record
SMF_119_5	DRLRS119	TCP/IP statistics
SMF_119_6	DRLRS119	Interface statistics
SMF_119_7	DRLRS119	Server port statistics
SMF_119_8	DRLRS119	TCP/IP stack start/stop
SMF_119_10	DRLRS119	UDP socket close
SMF_119_20	DRLRS119	TN3270 server SNA session initiation
SMF_119_21	DRLRS119	TN3270 server SNA session termination
SMF_119_22	DRLRS119	TSO telnet client connection initiation
SMF_119_23	DRLRS119	TSO telnet client connection termination
SMF_119_70	DRLRS119	FTP server transfer completion
SMF_119_72	DRLRS119	FTP server logon failure
SMF_119_73	DRLRS119	IPSec IKE Tunnel Activation/Refresh record
SMF_119_74	DRLRS119	IPSec IKE Tunnel Deactivation/Expire record
SMF_119_75_80	DRLRS119	IPSec Dynamic Tunnel Activation/Refresh
SMF_119_75_80	DRLRS119	IPSec Dynamic Tunnel Deactivation record
SMF_119_75_80	DRLRS119	IPSec Dynamic Tunnel Added record
SMF_119_75_80	DRLRS119	IPSec Dynamic Tunnel Removed record
SMF_119_75_80	DRLRS119	IPSec Manual Tunnel Activation record
SMF_119_75_80	DRLRS119	IPSec Manual Tunnel Deactivation record
SMF_120_1	DRLRS121	Server activity record
SMF_120_2	DRLRS122	WebSphere Application Server container activity record
SMF_120_3	DRLRS123	Server interval record
SMF_120_4	DRLRS124	WebSphere Application Server container interval record
SMF_120_5	DRLRSJWA	J2EE container activity record
SMF_120_6	DRLRSJWI	J2EE container interval record
SMF_120_7	DRLRSJWA	Web container activity record
SMF_120_8	DRLRSJWI	Web container interval record
SMF_120_9	DRLRS129	Request Activity record
SMF_123	DRLRS123	SMF HPQS statistics

SMF records

Record name	Member name	Description
SMF_194	DRLRS194	TS7700 Virtualization Engine statistics record
SMF_IXFP_01	DRLRIXFP	IXFP subsystem performance
SMF_IXFP_02	DRLRIXFP	IXFP channel interface statistics
SMF_IXFP_03	DRLRIXFP	IXFP functional device performance
SMF_IXFP_04	DRLRIXFP	IXFP device module performance
SMF_IXFP_05	DRLRIXFP	IXFP deleted data space release
SMF_IXFP_06	DRLRIXFP	IXFP snapshot event data
SMF_IXFP_07	DRLRIXFP	IXFP space utilization record
SMF_IXFP_08	DRLRIXFP	IXFP snapshot extended event data record

These records are user-defined; that is, they are not part of the standard IBM records in the range 0–127. However, they are written by IBM licensed programs.

The default record numbers are provided within parentheses.

Record name	Member name	Description
SMF_CACHE_03	DRLRS245	Cache RMF Reporter, 3990 model 03 (245)
SMF_CACHE_06	DRLRS245	Cache RMF Reporter, 3990 model 06 (245)
SMF_CACHE_13	DRLRS245	Cache RMF Reporter, 3880 model 13 (245)
SMF_CACHE_23	DRLRS245	Cache RMF Reporter, 3880 model 23 (245)
SMF_FTP	DRLRSFTP	NetView File Transfer Program (FTP) log record (252)

DFSMS/RMM records

Record name	Member name	Description
DFRMM_VOLUME	DRLRRMMV	Extract file volume record
DFRMM_RACK	DRLRRMMR	Extract file rack number record
DFRMM_SLBIN	DRLRRMMS	Extract file storage location bin record
DFRMM_PRODUCT	DRLRRMMP	Extract file product record
DFRMM_VRS	DRLRRMMK	Extract file VRS record
DFRMM_OWNER	DRLRRMMO	Extract file owner record
DFRMM_DATASET	DRLRRMMD	Extract file dataset record

IMS SLDS records

These records come from the IMS recovery log.

No reliable release indicators exist in the IMS records, so one log definition exists for each IMS release supported. The log and record names contain *Vnn* where *nn* is the IMS version and release; 71 for IMS 7.1, 81 for IMS version 8.1, 91 for IMS version 9.1, A1 for IMS version 10.1, B1 for IMS 11.1, C1 for IMS for IMS 12.1, and D1 for IMS for IMS 13.1.

The records are described in IMS mapping macros.

Record name	Member name	Description
IMS_Vnn0_01	DRLRInnS	Message Queue record (message received from a CNT)
IMS_Vnn0_02	DRLRInnS	IMS command record
IMS_Vnn0_03	DRLRInnS	Message Queue record (message received from an SMB or IMS)
IMS_Vnn0_06	DRLRInnS	IMS event accounting record
IMS_Vnn0_07	DRLRInnS	Program termination accounting record
IMS_Vnn0_08	DRLRInnS	Program schedule record
IMS_Vnn0_10	DRLRInnS	Security violation record
IMS_Vnn0_11	DRLRInnS	Start of conversation record
IMS_Vnn0_12	DRLRInnS	End of conversation record
IMS_Vnn0_13	DRLRInnS	SPA insert record
IMS_Vnn0_16	DRLRInnS	Sign on/off record
IMS_Vnn0_18	DRLRInnS	Extended checkpoint record
IMS_Vnn0_20	DRLRInnS	Database open record
IMS_Vnn0_21	DRLRInnS	Database close record
IMS_Vnn0_24	DRLRInnS	Database error record
IMS_Vnn0_30	DRLRInnS	Message queue prefix changed record
IMS_Vnn0_31	DRLRInnS	Message queue GU record
IMS_Vnn0_32	DRLRInnS	Message queue reject record
IMS_Vnn0_33	DRLRInnS	Message queue DRRN free record
IMS_Vnn0_34	DRLRInnS	Message queue cancel record
IMS_Vnn0_35	DRLRInnS	Message queue enqueue record
IMS_Vnn0_36	DRLRInnS	Message queue dequeue record
IMS_Vnn0_37	DRLRInnS	Message queue syncpoint transfer record
IMS_Vnn0_38	DRLRInnS	Message queue syncpoint fail record
IMS_Vnn0_4C	DRLRInnS	Program/Database start/stop record
IMS_Vnn0_400D	DRLRInnS	Checkpoint CCB record
IMS_Vnn0_400E	DRLRInnS	Checkpoint SPA record
IMS_Vnn0_4001	DRLRInnS	Checkpoint begin
IMS_Vnn0_4002	DRLRInnS	Checkpoint message queue record
IMS_Vnn0_4003	DRLRInnS	Checkpoint CNT record
IMS_Vnn0_4004	DRLRInnS	Checkpoint SMB record
IMS_Vnn0_4005	DRLRInnS	Checkpoint CTB record
IMS_Vnn0_4006	DRLRInnS	Checkpoint DMB record
IMS_Vnn0_4007	DRLRInnS	Checkpoint PSB record
IMS_Vnn0_4008	DRLRInnS	Checkpoint CLB record
IMS_Vnn0_4014	DRLRInnS	Checkpoint SPA QB record
IMS_Vnn0_4015	DRLRInnS	Checkpoint EQE record
IMS_Vnn0_4020	DRLRInnS	Checkpoint CIB record
IMS_Vnn0_4021	DRLRInnS	Checkpoint VTCB record
IMS_Vnn0_4070	DRLRInnS	Checkpoint MSDB begin
IMS_Vnn0_4071	DRLRInnS	Checkpoint MSDB ECNT record

IMS SLDS records

Record name	Member name	Description
IMS_Vnn0_4072	DRLRInnS	Checkpoint MSDB header
IMS_Vnn0_4073	DRLRInnS	Checkpoint MSDB pagefixed
IMS_Vnn0_4074	DRLRInnS	Checkpoint MSDB pageable
IMS_Vnn0_4079	DRLRInnS	Checkpoint MSDB end
IMS_Vnn0_4080	DRLRInnS	Checkpoint Fast Path begin
IMS_Vnn0_4081	DRLRInnS	Checkpoint Fast Path ECNT record
IMS_Vnn0_4082	DRLRInnS	Checkpoint Fast Path EMHB record
IMS_Vnn0_4083	DRLRInnS	Checkpoint Fast Path RCTE record
IMS_Vnn0_4084	DRLRInnS	Checkpoint Fast Path DMCB/DMAC record
IMS_Vnn0_4085	DRLRInnS	Checkpoint Fast Path MTO buffer record
IMS_Vnn0_4086	DRLRInnS	Checkpoint Fast Path DMHR/DEDB buffer record
IMS_Vnn0_4087	DRLRInnS	Checkpoint Fast Path ADSC record
IMS_Vnn0_4088	DRLRInnS	Checkpoint Fast Path IEEQE record
IMS_Vnn0_4089	DRLRInnS	Checkpoint Fast Path end
IMS_Vnn0_4098	DRLRInnS	Checkpoint end blocks record
IMS_Vnn0_4099	DRLRInnS	Checkpoint end queues record
IMS_Vnn0_41	DRLRInnS	Checkpoint batch record
IMS_Vnn0_42	DRLRInnS	Log buffer control record
IMS_Vnn0_43	DRLRInnS	Log dataset control record
IMS_Vnn0_45FF	DRLRInnS	End of statistics
IMS_Vnn0_450A	DRLRInnS	Statistics latch record
IMS_Vnn0_450B	DRLRInnS	Statistics dispatch storage record
IMS_Vnn0_450C	DRLRInnS	Statistics DFSCBT00 storage record
IMS_Vnn0_450D	DRLRInnS	Statistics RecAny pool record
IMS_Vnn0_450E	DRLRInnS	Statistics fixed pools storage record
IMS_Vnn0_450F	DRLRInnS	Dispatcher statistics record
IMS_Vnn0_4502	DRLRInnS	Statistics queue pool record
IMS_Vnn0_4503	DRLRInnS	Statistics format buffer pool record
IMS_Vnn0_4504	DRLRInnS	Statistics database buffer pool
IMS_Vnn0_4505	DRLRInnS	Statistics main pools record
IMS_Vnn0_4506	DRLRInnS	Statistics scheduling stats record
IMS_Vnn0_4507	DRLRInnS	Statistics logger record
IMS_Vnn0_4508	DRLRInnS	Statistics VSAM subpool record
IMS_Vnn0_4509	DRLRInnS	Statistics program isolation record
IMS_Vnn0_47	DRLRInnS	Statistics active region record
IMS_Vnn0_48	DRLRInnS	OLDS padding record
IMS_Vnn0_5050	DRLRInnS	Full function database update undo/redo successful record
IMS_Vnn0_5051	DRLRInnS	Full function database update unsuccessful record
IMS_Vnn0_5052	DRLRInnS	Full function database update undo KSDS insert record
IMS_Vnn0_5501FE00	DRLRInnS	External sub-system DB2 snap in doubt record
IMS_Vnn0_56	DRLRInnS	External sub-system record

Record name	Member name	Description
IMS_Vnn0_5901	DRLRInnS	EMH input record
IMS_Vnn0_5903	DRLRInnS	EMH output record
IMS_Vnn0_5920	DRLRInnS	Fast path MSDB change record
IMS_Vnn0_5921	DRLRInnS	Fast path DEDB area dataset open record
IMS_Vnn0_5922	DRLRInnS	Fast path DEDB area dataset close record
IMS_Vnn0_5923	DRLRInnS	Fast path DEDB area dataset status record
IMS_Vnn0_5924	DRLRInnS	Fast path DEDB area dataset EQE creation record
IMS_Vnn0_5936	DRLRInnS	EMH dequeue record
IMS_Vnn0_5937	DRLRInnS	EMH FP syncpoint record
IMS_Vnn0_5938	DRLRInnS	EMH FP syncpoint failure record
IMS_Vnn0_5950	DRLRInnS	Fast Path database update record
IMS_Vnn0_5953	DRLRInnS	Fast Path database update (utilities) record
IMS_Vnn0_5954	DRLRInnS	Fast Path database DEDB open record
IMS_Vnn0_5955	DRLRInnS	Fast Path sequential dependent syncpoint record
IMS_Vnn0_5957	DRLRInnS	Fast Path database DMAC record
IMS_Vnn0_5970	DRLRInnS	Fast Path hot standby MSDB relocation record
IMS_Vnn0_67	DRLRInnS	Communications trace, DMHR on I/O error and snap trace records
IMS_Vnn0_67FA	DRLRInnS	Trace table log record
IMS_Vnn0_7201	DRLRInnS	ETO user create record
IMS_Vnn0_7202	DRLRInnS	ETO user delete record
IMS_Vnn0_7203	DRLRInnS	ETO user modify record
IMS_Vnn0_7204	DRLRInnS	ETO lterm addition record

DCOLLECT records

These records are produced by the DFP DCOLLECT utility.

For a description of these records, refer to *z/OS DFSMS: Access Method Services for Catalog*.

Record name	Member name	Description
DCOLLECT_A	DRLRDCOA	VSAM base cluster association name
DCOLLECT_AG	DRLRDCAg	Aggregate Group information
DCOLLECT_B	DRLRDcoB	Data set backup version information
DCOLLECT_BC	DRLRDcBC	Base Configuration information
DCOLLECT_C	DRLRDcoC	DASD capacity planning information
DCOLLECT_D	DRLRDcoD	Active data set information
DCOLLECT_DC	DRLRDcDC.	Data Class construct information
DCOLLECT_DR	DRLRDcDR.	Optical Drive information
DCOLLECT_LB	DRLRDcLB.	Optical Library information
DCOLLECT_M	DRLRDcoM	Migration data set information
DCOLLECT_MC	DRLRDcMC	Management Class construct information

DCOLLECT records

Record name	Member name	Description
DCOLLECT_SC	DRLRDCSC	Storage Class construct information
DCOLLECT_SG	DRLRDCSG	Storage Group construct information
DCOLLECT_T	DRLRDCOT	Tape capacity planning information
DCOLLECT_V	DRLRDCOV	Volume information
DCOLLECT_VL	DRLRDCVL.	SMS Volume information

EREP records

For a description of these records, refer to the *Environmental Record Editing and Printing Program (EREP) User's Guide and Reference*.

Record name	Member name	Description
EREP_30	DRLRE030	DASD long outboard record
EREP_36	DRLER036	VTAM long outboard record
EREP_50	DRLER050	IPL system initialization record

Linux on zSeries records

These records are produced by the zLinux programs on your zLinux nodes.

Record name	Member name	Description
ZLINUX_CPU	DRLRZPCP	zLinux CPU performance record
ZLINUX_DISK_FS	DRLRZPDI	zLinux disk space performance record
ZLINUX_DISKIO	DRLRZPIO	zLinux disk I/O performance record
ZLINUX_PAGING	DRLRZPPA	zLinux paging space performance record
ZLINUX_HARDCONF	DRLRZCNF	zLinux hardware configuration record
ZLINUX_SOFTCONF	DRLRZCNF	zLinux software configuration record
ZLINUX_USR_CMD	DRLRZACO	zLinux process/command accounting record
ZLINUX_WTMP_INFO	DRLRZMTP	zLinux connect accounting record
ZLINUX_REC_PI	DRLRLNX1	PI log record reformatted to fixed layout
ZLINUX_REC_DF	DRLRLNX1	DF log record reformatted to fixed layout
ZLINUX_REC_WW	DRLRLNX1	WW log record reformatted to fixed layout
ZLINUX_REC_TO	DRLRLNX1	TO log record reformatted to fixed layout

RACF records

These records come from the RACF Database Unload utility output that contains RACF configuration data.

For a description of these records, refer to *RACF Macros and Interfaces*.

Record name	Member name	Description
RACF_100	DRLRR100	Group basic data
RACF_200	DRLRR200	User basic data

Record name	Member name	Description
RACF_205	DRLRR205	User connect data
RACF_400	DRLRR400	Data set basic data
RACF_402	DRLRR402	Data set conditional access
RACF_404	DRLRR404	Data set access
RACF_500	DRLRR500	General resource basic data
RACF_505	DRLRR505	General resource access
RACF_507	DRLRR507	General resource conditional access

Tivoli Workload Scheduler for z/OS (OPC) records

These records come from the OPC track log.

For a description of these records, refer to the *Tivoli Workload Scheduler: Diagnosis Guide and Reference*.

Record name	Member name	Description
OPC_03_P	DRLROP03	OPC current plan operation
OPC_03_C	DRLROP03	OPC current plan occurrence
OPC_03_3	DRLROP03	OPC current plan system automation
OPC_04	DRLROP04	OPC current plan job name table
OPC_23	DRLROP23	OPC operation event
OPC_24	DRLROP24	OPC MCP event
OPC_27	DRLROP27	OPC missed feedback
OPC_29	DRLROP29	OPC auto tracked event

VM accounting records

For a description of these records, refer to *z/VM: CP Planning and Administration*.

Record name	Member name	Description
VMACCT_01	DRLRVA01	Virtual machine resource use
VMACCT_02	DRLRVA02	Dedicated devices
VMACCT_03	DRLRVA03	Temporary disk space
VMACCT_04	DRLRVA04	LOGON or AUTOLOG with invalid password
VMACCT_05	DRLRVA05	Successful LINK to protected minidisk
VMACCT_06	DRLRVA06	LINK with invalid password
VMACCT_07	DRLRVA07	Log off from VSCS-controlled device
VMACCT_08	DRLRVA08	Disconnect or log off

VMPRF records

VMPRF records

For a description of these records, refer to the *VMPRF User's Guide and Reference*.

Record name	Member name	Description
VMPRF_01	DRLRVM01	VMPRF system data
VMPRF_02	DRLRVM02	VMPRF processor data
VMPRF_11	DRLRVM11	VMPRF configuration data
VMPRF_41	DRLRVM41	VMPRF user data
VMPRF_61	DRLRVM61	VMPRF DASD data

z/VM Performance Toolkit records

For a description of these records, refer to the *z/VM Performance Toolkit* manual.

Record name	Member name	Description
VMPERFT_00	DRLRPT00	System configuration data
VMPERFT_01	DRLRPT01	General system load data
VMPERFT_02	DRLRPT02	Processor load data
VMPERFT_03	DRLRPT03	Logical processor load data (LPAR only)
VMPERFT_04	DRLRPT04	Minidisk cache data
VMPERFT_05	DRLRPT05	CP services activity data
VMPERFT_06	DRLRPT06	Channel busy (HF sampling)
VMPERFT_07	DRLRPT07	Channel measurement facility data
VMPERFT_08	DRLRPT08	Extended channel measurement facility data
VMPERFT_3A	DRLRPT3A	Overall user transaction data
VMPERFT_3C	DRLRPT3C	Shared segment data
VMPERFT_3E	DRLRPT3E	Shared data spaces
VMPERFT_41	DRLRPT41	User resource usage and wait states
VMPERFT_42	DRLRPT42	User class resource usage and wait states (same layout as FC41)
VMPERFT_43	DRLRPT43	System totals for user resource usage and wait states (same layout as FC41)
VMPERFT_44	DRLRPT44	User transactions and response time
VMPERFT_45	DRLRPT45	User class transactions and response time data (same layout as FC44)
VMPERFT_46	DRLRPT46	System totals for user transactions and response time data
VMPERFT_51	DRLRPT51	I/O processor activity data
VMPERFT_55	DRLRPT55	Virtual switch records
VMPERFT_61	DRLRPT61	General DASD data
VMPERFT_65	DRLRPT65	DASD cache data
VMPERFT_68	DRLRPT68	DASD CP owned (system areas)
VMPERFT_6F	DRLRPT6F	SCSI device records
VMPERFT_6D	DRLRPT6D	Queued Direct Input Output (QDIO) support
VMPERFT_71	DRLRPT71	DASD SEEKS data
VMPERFT_A2	DRLRPTA2	SFS and BFS server data
VMPERFT_A4	DRLRPTA4	Multitasking users data

Record name	Member name	Description
VMPERFT_A6	DRLRPTA6	TCP/IP server data
VMPERFT_A7	DRLRPTA7	TCP/IP links data
VMPERFT_A8	DRLRPTA8	Reusable server kernel summary data
VMPERFT_A9	DRLRPTA9	Linux application data

z/VM Performance Toolkit records

Chapter 20. Administration dialog options and commands

This chapter describes actions you can access from primary windows in the Tivoli Decision Support for z/OS administration dialog. These actions include dialog window pull-downs and commands you issue from the command line. These sections describe the actions:

- “Tivoli Decision Support for z/OS dialog options”
- “Tivoli Decision Support for z/OS commands” on page 343

Tivoli Decision Support for z/OS dialog options

These figures list menu bar options for the Tivoli Decision Support for z/OS windows. Under each menu bar option, there is a list of pull-down options available, with references to where the pull-down options are described.

Tivoli Decision Support for z/OS Primary Menu window

Options

Dialog parameters	See “Dialog parameters - variables and fields” on page 60.
Reporting dialog defaults	Refer to the <i>Guide to Reporting</i> for more information.

Help

Using help	Refer to the <i>Guide to Reporting</i> for more information.
General help	Refer to the <i>Guide to Reporting</i> for more information.
Keys help	Refer to the <i>Guide to Reporting</i> for more information.
Online books	Refer to the <i>Guide to Reporting</i> for more information.
Search information	Refer to the <i>Guide to Reporting</i> for more information.
Product information	Displays Tivoli Decision Support for z/OS copyright and release information.

Administration window

Other

QMF	Refer to the <i>Guide to Reporting</i> for more information. If your installation does not use QMF, this item is not selectable.
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Tivoli Decision Support for z/OS dialog options

DB2I	See “Using available tools to work with the Tivoli Decision Support for z/OS database” on page 166.
ISPF/PDF	Displays the ISPF/PDF primary menu.
BookManager	Refer to the <i>Guide to Reporting</i> for more information.

Process Tivoli Decision Support for z/OS statements

	See “Working with fields in a record definition” on page 227.
Messages	Refer to the <i>Guide to Reporting</i> for more information.
Exit	Returns to the previous window.

Utilities

Network	Refer to the <i>Network Performance Feature Installation and Administration</i> guide.
Generate problem records	See “Administering problem records” on page 177.
System Diagnostics	Refer to “System Diagnostics” in the <i>Messages and Problem Determination</i> book.
TPM Extract	Extracts usage data from Tivoli Decision Support for z/OS data tables which can be imported into Tivoli Performance Modeller.
Search installed objects	Utility for searching installed component objects such as table columns, table comments, records, updates, and reports.

Help

Using help	Refer to the <i>Guide to Reporting</i> for more information.
General help	Refer to the <i>Guide to Reporting</i> for more information.
Keys help	Refer to the <i>Guide to Reporting</i> for more information.
Online books	Refer to the <i>Guide to Reporting</i> for more information.
Search information	Refer to the <i>Guide to Reporting</i> for more information.
Product information	Displays Tivoli Decision Support for z/OS copyright and release information.

Components window

Component

New	See “Creating a component” on page 211.
Open component	See “Viewing objects in a component” on page 208.
Install	See “Installing a component” on page 182.

Tivoli Decision Support for z/OS dialog options

Uninstall	See “Uninstalling a component” on page 190.
Delete	See “Deleting a component” on page 211.
Print list	See “Printing a list of Tivoli Decision Support for z/OS tables” on page 264 for a description of a similar action, printing a list of tables.
Show user objects	See “Controlling objects that you have modified” on page 190.
Show excluded	See “Controlling objects that you have modified” on page 190.
Exit	Saves changes and returns to the previous window.
Space	
Tablespaces	See “Installing a component” on page 182.
Indexes	See “Installing a component” on page 182.
<u>Other</u>	
QMF	Refer to the <i>Guide to Reporting</i> for more information. If your installation does not use QMF, this item is not selectable.
DB2I	See “Using available tools to work with the Tivoli Decision Support for z/OS database” on page 166.
ISPF/PDF	Displays the ISPF/PDF primary menu.
BookManager	Refer to the <i>Guide to Reporting</i> for more information.
Process Tivoli Decision Support for z/OS statements	See “Working with fields in a record definition” on page 227.
Messages	Refer to the <i>Guide to Reporting</i> for more information.
<u>Help</u>	
Using help	Refer to the <i>Guide to Reporting</i> for more information.
General help	Refer to the <i>Guide to Reporting</i> for more information.
Keys help	Refer to the <i>Guide to Reporting</i> for more information.
Online books	Refer to the <i>Guide to Reporting</i> for more information.
Search information	Refer to the <i>Guide to Reporting</i> for more information.
Product information	Displays Tivoli Decision Support for z/OS copyright and release information.

Logs window

Tivoli Decision Support for z/OS dialog options

Log

New	See "Creating a log definition" on page 224.
Open log definition	See "Viewing and modifying a log definition" on page 223.
Open record definitions	See "Viewing and modifying a record definition" on page 225.
Open collected log data sets	See "Viewing a list of log data sets collected" on page 215.
Open Log Data Manager	See Chapter 15, "Working with the log data manager option," on page 271.
Delete	See "Deleting a log definition" on page 224.
Save definition	See "Saving a table definition in a data set" on page 264 for a description of a similar action, saving definitions for tables.
Print list	See "Printing a list of Tivoli Decision Support for z/OS tables" on page 264 for a description of a similar action, printing a list of tables.
Exit	Saves changes and returns to the previous window.

Utilities

Collect	See "Collecting data from a log into DB2 tables" on page 217.
Display log	See "Displaying the contents of a log" on page 219.
Show log statistics	See "Displaying log statistics" on page 219.

View

All	Lists all logs in the Logs window.
Some	Restricts the list of logs displayed in the Logs window when you specify selection criteria.

Other

QMF	Refer to the <i>Guide to Reporting</i> for more information. If your installation does not use QMF, this item is not selectable.
DB2I	See "Using available tools to work with the Tivoli Decision Support for z/OS database" on page 166.
ISPF/PDF	Displays the ISPF/PDF primary menu.
BookManager	Refer to the <i>Guide to Reporting</i> for more information.
Process Tivoli Decision Support for z/OS statements	See "Working with fields in a record definition" on page 227.
Messages	Refer to the <i>Guide to Reporting</i> for more information.

Help

Using help	Refer to the <i>Guide to Reporting</i> for more information.
General help	Refer to the <i>Guide to Reporting</i> for more information.
Keys help	Refer to the <i>Guide to Reporting</i> for more information.
Online books	Refer to the <i>Guide to Reporting</i> for more information.
Search information	Refer to the <i>Guide to Reporting</i> for more information.
Product information	Displays Tivoli Decision Support for z/OS copyright and release information.

Tables window

Table

New	See “Creating a table” on page 265.
Open table definition	See “Opening a table to display columns” on page 248.
Open updates	See “Displaying and modifying update definitions of a table” on page 252.
Open purge conditions	See “Displaying and editing the purge condition of a table” on page 257.
Open tablespace	See “Displaying and modifying a table or indexspace” on page 259.
Delete	See “Deleting a table or view” on page 267.
Save definition	See “Saving a table definition in a data set” on page 264.
Print list	See “Printing a list of Tivoli Decision Support for z/OS tables” on page 264.
Exit	Saves changes and returns to the previous window.

Maintenance

Tablespace	See “Displaying and modifying a table or indexspace” on page 259.
Index and indexspace	See “Displaying and modifying a table or indexspace” on page 259.

Utilities

Display	See “Displaying the contents of a table” on page 234.
Show size	See “Showing the size of a table” on page 237.
Import	See “Importing the contents of an IXF file to a table” on page 241. If your installation does not use QMF, this item is not selectable.

Tivoli Decision Support for z/OS dialog options

Export	See “Exporting table data to an IXF file” on page 241. If your installation does not use QMF, this item is not selectable.
Grant	See “Administering user access to tables” on page 269.
Revoke	See “Administering user access to tables” on page 269.
Document	See “Documenting a table” on page 270.
Recalculate	See “Recalculating the contents of a table” on page 238.
Purge	See “Purging a table” on page 241.
Unload	See “Unloading and loading tables” on page 242.
Load	See “Unloading and loading tables” on page 242.
<u>Edit</u>	
Add rows	See “Editing the contents of a table” on page 235. If your installation does not use QMF, this item is not selectable.
Change rows	See “Editing the contents of a table” on page 235. If your installation does not use QMF, this item is not selectable.
ISPF editor	See “Editing the contents of a table” on page 235.
<u>View</u>	
All	See “Listing a subset of tables in the Tables window” on page 265.
Some	See “Listing a subset of tables in the Tables window” on page 265.
<u>Other</u>	
QMF	Refer to the <i>Guide to Reporting</i> for more information. If your installation does not use QMF, this item is not selectable.
DB2I	See “Using available tools to work with the Tivoli Decision Support for z/OS database” on page 166.
ISPF/PDF	Displays the ISPF/PDF primary menu.
BookManager	Refer to the <i>Guide to Reporting</i> for more information.
Process Tivoli Decision Support for z/OS statements	
	See “Working with fields in a record definition” on page 227.
Messages	Refer to the <i>Guide to Reporting</i> for more information.
<u>Help</u>	

Using help	Refer to the <i>Guide to Reporting</i> for more information.
General help	Refer to the <i>Guide to Reporting</i> for more information.
Keys help	Refer to the <i>Guide to Reporting</i> for more information.
Online books	Refer to the <i>Guide to Reporting</i> for more information.
Search information	Refer to the <i>Guide to Reporting</i> for more information.
Product information	Displays Tivoli Decision Support for z/OS copyright and release information.

Tivoli Decision Support for z/OS commands

You can immediately execute an action anywhere in a Tivoli Decision Support for z/OS dialog by typing these commands on the command line (uppercase letters show the abbreviation for the command):

COMPonen (see Note)	Displays the Components window.
DB2I	Starts a DATABASE 2 Interactive (DB2I) facility session and displays its primary menu.
DISPLay RECORD record_type (see Note)	Lets you identify a log data set in the Record Selection window from which Tivoli Decision Support for z/OS displays records of the specified type in the Record Data window.
DISPLay report_ID	Displays the specified report from the Reports window.
DISPLay REPort report_ID	Displays the specified report. By default, report IDs are listed in the Tivoli Decision Support for z/OS Report window next to their corresponding report descriptions. You can toggle the display to show either the report IDs or the report types and owners by pressing F11. If you do not use a prefix for the report ID (<i>prefix.report_ID</i>), Tivoli Decision Support for z/OS assumes the report is public. Otherwise, the prefix must be the owner of the private report.
DISPLAY TABLE table_name (see Note)	Displays the specified table. Tivoli Decision Support for z/OS assumes a prefix that is the value of the Other table prefix field from the Dialog Parameters window: DISPL TAB DRLSYS.DRLTABLES DISPL TAB MVS_SYSTEM_H or DISPL TAB DRL.MVS_SYSTEM_H
DISPLay table_name (see Note)	Displays the specified table from the Tables window.
DRLESTRA	Displays the Set/Reset Trace Options window.
HELP	Displays general help or, if a message appears, help for the message.

Administration dialog commands

INFO	Calls BookManager and displays the Topics in Online Books window.
INFO S Earch	Calls BookManager and displays the BookManager Set Up Search window.
INFO S Earch argument	Calls BookManager and searches for <i>argument</i> . If you omit <i>argument</i> , this command calls BookManager to display the Set Up Search pop-up.
ISPF	Displays the ISPF primary menu.
LO cate argument	In a Tivoli Decision Support for z/OS window, locates the first row that starts with <i>argument</i> in the column that was last sorted.
LOGS (see Note)	Displays the Logs window.
PDF	Displays the ISPF primary menu.
QMF	If your installation uses QMF, this command starts QMF and displays either its SQL primary window or its prompted query primary menu.
REPORTs	Starts the reporting dialog.
SO rt column_name position ASC DES	Sorts a Tivoli Decision Support for z/OS list by the column you specify as <i>column_name</i> in either ascending or descending order. (You can also sort by column number by specifying the number of the column instead of the name. The first column after the selection field column on the left is column 1.)
SYStem (see Note)	Displays the System window.
TABLE (see Note)	Displays the Tables window.

Note: This command is not available in end-user mode from the reporting dialog.

Chapter 21. Administration reports

This chapter describes the administration reports that are created when you create or update the Tivoli Decision Support for z/OS system tables. The reports listed in this chapter are the following:

- PRA001 - Indexspace cross-reference
- PRA002 - Actual tablespace allocation
- PRA003 - Table purge condition
- PRA004 - List columns for a requested table with comments
- PRA005 - List all tables with comments
- PRA006 - List User Modified Objects

PRA001 - Indexspace cross-reference

The PRA001 report provides a cross-reference between indexspaces and indexes that are present in the Tivoli Decision Support for z/OS environment at the time of running the report.

This report enables you to extract the real name of an index, so that you can locate the index in the administration dialog and adjust its space allocation if required.

The source table for this report is the DRLINDEXES system table.

This information identifies the report:

Report ID	PRA001
Report group	ADMIN
Reports Source	DRLINDEXES
Attributes	INDEX, INDEXSPACE, ADMINISTRATION, DB2,
Variables	INDEXSPACE. Optional. Type the index name associated with a single indexspace, or accept the default setting to obtain a complete cross reference between index and indexspace names for all indexes.

Figure 123 shows part of a PRA001 report.

PRA001 - Indexspace cross-reference

INDEXSPACE cross-reference

Indexspace Name	Index Name
DRLLLOGSI	DRLLLOGSIX
DRLCOMPR	DRLCOMP_PART_IX
DRLCOMPO	DRLCOMPONENT_IX
DRLRECOR	DRLRECORDSIX
DRLFIELE	DRLFIELDSIX
DRLSECTI	DRLSECTIONSIX
DRLRPROC	DRLRPROCINPUTIX
DRLRIMX\$	DRLRECORDPROCSIX
DRLUPDAT	DRLUPDATESIX
DRLUPDCO	DRLUPDCOLSIX
DRLUPDLE	DRLUPDLETSIX
DRLPURGE	DRLPURGEIX
DRLUPDIS	DRLUPDISTRIX
DRLLLOGDA	DRLLLOGDATASETSIX
DRLEXPRI	DRLEXPRIX
DAYROFRW	DAY_OF_WEEK_IX
SPECIALR	SPECIAL_DAY_IX
DRLC1F8M	DRLCOMP_OBJ_IX
DRLREPOR	DRLREPORTS_IX
DRLREPRV	DRLREP_VAR_IX
DRLREPR	DRLREP_ATTR_IX
DRLREPRQ	DRLREP_QRY_IX
DRLREPRC	DRLREP_COL_IX
DRLREPRT	DRLREP_TEXT_IX
DRLGROUP	DRLGROUP_IX
DRLGRPRR	DRLGRP_REP_IX
DRLSEARC	DRLSEARCH_IX
..	
..	
..	

Figure 123. Part of an Indexspace Cross-reference report

The report contains the following information:

INDEXSPACE NAME	The name of the indexspace whose index name has been extracted. This is either the name associated with a single indexspace or the complete cross reference between index and indexspace names for all indexes.
INDEX NAME	The name of the index associated with the indexspace.

For information about:

- The DRLINDEXES system table, see “Views on DB2 and QMF tables” on page 305.
- How to run reports, see “Administering reports” on page 167.
- How to display or modify tables or indexspaces, see “Displaying and modifying a table or indexspace” on page 259.

PRA002 - Actual tablespace allocation

The PRA002 report shows the actual space allocated to tables. Use the information in this report, together with the information in PRA003, to estimate future space requirements.

The source table for this report is the DRLTABLESPACE system table.

This information identifies the report:

Report ID PRA002
Report group ADMIN
Reports Source DRLTABLESPACE
Attributes TABLESPACE, SPACE, ADMINISTRATION, DB2,
Variables TABLESPACE_NAME. Optional. You can select the space allocated to a single tablespace, or accept the default to obtain complete information for all the Tablespaces present.

Figure 124 shows part of a PRA002 report.

ACTUAL TABLESPACE SPACE allocation

Tablespace Name	SPACE Allocated
DRLSADSM	1584
DRLSCI08	10080
DRLSCOM	20160
DRLSCS01	1056
DRLSCS02	1056
DRLSCS03	1056
DRLSCS04	1056
DRLSCS05	1056
DRLSCS06	1056
DRLSCS07	1056
DRLSCS08	1056
DRLSCS09	1056
DRLSCS10	1056
DRLSCS11	1056
DRLSCS12	1056
DRLSCS13	1056
DRLSCS14	1056
DRLSCS15	1056
DRLSCS16	1056
DRLSCS17	1056
DRLSCS18	1056
DRLSCS19	1056
..	
..	
..	

Figure 124. Part of an Actual Tablespace Allocation report

The report contains the following information:

Tablespace Name The name of the tablespace whose space allocation has been extracted.
SPACE Allocated The SPACE value as reported in the DB2 catalog (SYSIBM.SYSTABLESPACES table). The column SPACE contains data only if the STOSPACE utility has been run.

For information about:

- The DRLTABLESPACE system table, see “Views on DB2 and QMF tables” on page 305.
- How to run reports, see “Administering reports” on page 167.
- How to display or modify tables or indexspaces, see “Displaying and modifying a table or indexspace” on page 259.
- The SYSTABLESPACE table, refer to the *DB2 Universal Database for OS/390 and z/OS: SQL Reference*.

PRA003 - Table purge condition

This report shows a printable list of current purge conditions. It enables you to review purge criteria and decide which adjustments to make without the need to use the online dialog.

The source table is the DRLPURGCOND system table.

This information identifies the report:

Report ID PRA003
Report group ADMIN
Reports Source DRLPURGECOND
Attributes TABLE, PURGE, ADMINISTRATION, DB2,
Variables TABLE_NAME. Optional. You can select the purge condition associated with a single table, or accept the default setting to obtain a complete list of current purge conditions.

Figure 125 shows part of a PRA003 report.

TABLE PURGE Condition

Table Name	Purge Condition
TCP_GEN_IP_H	DATE < CURRENT DATE - 7 DAYS
TCP_GEN_TCP_H	DATE < CURRENT DATE - 7 DAYS
TCP_API_CALLS_D	DATE < CURRENT DATE - 30 DAYS
TCP_API_CALLS_H	DATE < CURRENT DATE - 7 DAYS
TCP_GEN_UDP_H	DATE < CURRENT DATE - 7 DAYS
TCP_GEN_ICMP_H	DATE < CURRENT DATE - 7 DAYS
TCP_GEN_IP_D	DATE < CURRENT DATE - 30 DAYS
TCP_GEN_TCP_D	DATE < CURRENT DATE - 30 DAYS
TCP_GEN_UDP_D	DATE < CURRENT DATE - 30 DAYS
TCP_GEN_ICMP_D	DATE < CURRENT DATE - 30 DAYS
TCP_GEN_IP_W	DATE < CURRENT DATE - 365 DAYS
TCP_GEN_TCP_W	DATE < CURRENT DATE - 365 DAYS
TCP_GEN_UDP_W	DATE < CURRENT DATE - 365 DAYS
TCP_GEN_ICMP_W	DATE < CURRENT DATE - 365 DAYS
TCP_FTP_CLIENT_T	DATE < CURRENT DATE - 1 DAYS
TCP_FTP_CLIENT_H	DATE < CURRENT DATE - 7 DAYS
TCP_FTP_CLIENT_D	DATE < CURRENT DATE - 30 DAYS
TCP_FTP_CLIENT_W	DATE < CURRENT DATE - 365 DAYS
TCP_FTP_SERVER_T	DATE < CURRENT DATE - 1 DAYS
TCP_FTP_SERVER_H	DATE < CURRENT DATE - 7 DAYS
TCP_FTP_SERVER_D	DATE < CURRENT DATE - 30 DAYS
TCP_FTP_SERVER_W	DATE < CURRENT DATE - 365 DAYS
TCP_TN3270_CLNT_T	DATE < CURRENT DATE - 1 DAYS
TCP_TN3270_CLNT_H	DATE < CURRENT DATE - 7 DAYS
..	
..	
..	

Figure 125. Part of a Table Purge Condition report

The report contains the following information:

TABLE NAME The name of the table to which the purge condition applies.
PURGE CONDITION The purge condition that applies to the table.

For information about:

- The DRLPURGCOND system table, see “Views on DB2 and QMF tables” on page 305.
- How to run reports, see “Administering reports” on page 167.
- How to display or edit purge conditions, see “Displaying and editing the purge condition of a table” on page 257.

PRA004 - List columns for a requested table with comments

This report shows the column remarks for the selected table.

This information identifies the report:

Report ID PRA004
Report group ADMIN
Reports Source DRLCOLUMNS
Attributes COMMENT, PURGE, ADMINISTRATION, DB2, idd:break>TABLE
Variables Tablename.

List columns for a requested table with comments

TABLE: DB2_USER_TRAN_H					
KEYS	KEYSEQ	NAME	COLTYPE	LENGTH	REMARKS
K	7	CORRELATION_ID	CHAR	12	Correlat. ID value. From QWHCCV.
K	10	DB2_PLAN	CHAR	8	Plan name. From QWHCPLAN.
	0	BP32_DYN_PREFETCH	FLOAT	4	Num. of DYNAMIC PREFETCH requests
	0	BP32_EXPANSIONS	FLOAT	4	

Tivoli Decision Support for z/OS: PRA004

Figure 126. Example of List columns for a requested table with comment

The report contains the following information:

Keys K Indicates if the column is primary Key in the table.
Keyseq The column's numeric position within the table's primary key. 0 if it is not part of a primary key.
Name Table column name.
Coltype The type attribute associated to the column.
Length Column length.
Remarks Column comment (if defined for the table column). It is 255 char long.

PRA005 - List all tables with comments

This report lists all the tables with remarks.

This information identifies the report:

Report ID PRA005
Report group ADMIN
Reports Source DRLCOLUMNS
Attributes COMMENT,PURGE,ADMINISTRATION,DB2, TABLE
Variables Tablename.

PRA005 - List all tables with comments

List all tables with comments

NAME	REMARKS
CICS_DICTIONARY	CICS dictionary records. Used and maintained by the recordproc that
CICS_FIELD	CICS dictionary fields. Used to update the dictionary blocks in
DAY_OF_WEEK	This control table defines the day type to be returned by the DAYTYPE
DB2_APPL_DIST_H	This table provides hourly statistics on DDF distributed address space

Tivoli Decision Support for z/OS: PRA005

Figure 127. Example of List all tables with comment

The report contains the following information:

Name	Table column name.
Coltype	The type attribute associated to the column.
Length	Column length.
Remarks	Table comment. It is 255 characters long.

PRA006 - List User Modified Objects

The PRA006 report provides the list of all the user-modified objects, that is, the objects that have a version value different from 'IBM.xxx'. The source tables for this report are the DRLCOMP_OBJECTS, DRLRECORDS, DRLRECORDPROCS, DRLLOGS, DRLUPDATES, DRLREPOSTS system tables.

This information identifies the report.

Report ID	PRA006
Report group	ADMIN
Reports Source	DRLCOMP_OBJECTS, DRLRECORDS, idd:break>DRLRECORDPROCS, DRLLOGS, DRLUPDATES, DRLREPOSTS
Attributes	USER, CHANGES, OBJECTS, ADMINISTRATION
Variables	COMPONENT. Optional. Type a component name if you want the user-modified objects for a single component. If you do not specify any value, the complete list of user modified objects is displayed for each installed component.

The following is an extract from a PRA006 report:

PRA006 - List User Modified Objects

List User Modified Objects

Component Name	Object Type	Object Name	Member Name	Part Name	Version
ADSM	LOG	SMF	DRLLSMF	-	FLAG
CICSMON	LOG	SMF	DRLLSMF	-	FLAG
	RECORD	SMF_110_1	DRLRS110	-	FLAG
	REPORT	CICSA05	DRLOC107	7 CMF GLOB & ACCT	PN86655
		CICSA07	DRLOC107	7 CMF GLOB & ACCT	PN86655
	UPDATE	CICS_TRAN_USR_H	DRLTCITR	1 CMF BASIC	ALTERED
CICSMOP	LOG	SMF	DRLLSMF	-	FLAG
	RECORD	SMF_110_1	DRLRS110	-	FLAG
CICSSTAP	LOG	SMF	DRLLSMF	-	FLAG
	RECORD	SMF_110_2	DRLR1102	-	PQ03356
		SMF_110_2_02	DRLR1102	-	PQXXXXX
		SMF_110_2_07	DRLR1102	-	PQ03356
		SMF_110_2_08	DRLR1102	-	PQ03356
		SMF_110_2_10	DRLR1102	-	PQ03356
		SMF_110_2_108	DRLR1102	-	PQXXXXX
		SMF_110_2_11	DRLR1102	-	PQXXXXX
		SMF_110_2_12	DRLR1102	-	PQ03356
		SMF_110_2_16	DRLR1102	-	PQ03356
		SMF_110_2_17	DRLR1102	-	PQ03356
		SMF_110_2_18	DRLR1102	-	PQ03356
		SMF_110_2_21	DRLR1102	-	PQ03356
		SMF_110_2_23	DRLR1102	-	PQ03356
		SMF_110_2_24	DRLR1102	-	PQ03356
		SMF_110_2_25	DRLR1102	-	PQ03356
		SMF_110_2_28	DRLR1102	-	PQ03356
		SMF_110_2_30	DRLR1102	-	PQ03356
		SMF_110_2_34	DRLR1102	-	PQ03356
		SMF_110_2_37	DRLR1102	-	PQ28635
		SMF_110_2_39	DRLR1102	-	PQXXXXX
		SMF_110_2_40	DRLR1102	-	PQ28635
		SMF_110_2_45	DRLR1102	-	PQXXXXX
		SMF_110_2_48	DRLR1102	-	PQXXXXX
		SMF_110_2_48_2	DRLR1102	-	PQXXXXX
		SMF_110_2_54	DRLR1102	-	PQXXXXX
		SMF_110_2_61	DRLR1102	-	PQ03356
		SMF_110_2_63	DRLR1102	-	PQ03356
		SMF_110_2_66	DRLR1102	-	PQ03356
		SMF_110_2_76	DRLR1102	-	PQ03356
		SMF_110_2_81	DRLR1102	-	PQ03356
		SMF_110_2_85	DRLR1102	-	PQ03356
		SMF_110_2_87	DRLR1102	-	PQ03356
		SMF_110_2_88	DRLR1102	-	PQ03356
		SMF_110_2_90	DRLR1102	-	PQXXXXX
		SMF_110_2_93	DRLR1102	-	PQ03356
		SMF_110_2_94	DRLR1102	-	PQ03356
		SMF_110_3	DRLR1103	-	PQ03356
	RECPROC	DRL2CIST	DRLR1103	-	ALTERED
	UPDATE	CICS_S_TCPIP_DP	DRLTS3P7	-	PQXXXXX
		CICS_S_TCPIP_TP	DRLTS3P7	-	PQXXXXX

The report contains the following information:

- Component Name** Name of the component which the objects belong to.
- Object Type** Type of object (Record, Update, Log...).
- Object Name** Name of the object.
- Member Name** Name of the member in the Tivoli Decision Support for z/OS libraries where the object definition is stored.
- Part Name** Subcomponent name, if any.

PRA006 - List User Modified Objects

Version Version of the object. You modify this field when you change any objects. It indicates whether an object has been modified.

For information about:

- The DRLCOMP_OBJECTS, DRLRECORDS, DRLRECORDPROCS, DRLLOGS, DRLUPDATES, DRLREPOSTS system tables, see “Views on DB2 and QMF tables” on page 305.
- How to run reports, see “Administering reports” on page 167.

Chapter 22. Using the REXX-SQL interface

This chapter contains General-use Programming Interface and Associated Guidance Information.

Tivoli Decision Support for z/OS provides a REXX-SQL interface through the DRL1SQLX module, which supports:

- Loading a DB2 table into an array of REXX variables
- Using SQL EXECUTE IMMEDIATE to execute an argument string that is a valid SQL statement

For more information about DB2 terms and statements mentioned in this chapter, refer to the *DB2 Universal Database for OS/390 and z/OS: SQL Reference*.

Calling the DRL1SQLX module

The module derives its input data from the argument on the CALL instruction and from predefined REXX variables. There are reserved REXX variables that the calling REXX exec defines before calling the module.

If a REXX exec passes an SQL SELECT statement as the argument, DRL1SQLX executes the SELECT and returns table data in an array of REXX variables. The module can return any DB2 data type but graphic strings.

The module return code result, set in the variable RESULT, is available to the calling REXX program.

The syntax for running the DRL1SQLX module is:

```
▶▶—CALL DRL1SQLX—' INIT'—————▶▶
                    |
                    |—sql-statement—|
                    |
                    | ' TERM'         |
```

where:

INIT

Establishes a call attachment facility (CAF) connection to DB2 that leaves the connection open until a DRL1SQLX TERM statement is executed. There is not an implied COMMIT until the DRL1SQLX TERM statement.

If the REXX program passes INIT as the argument for the CALL DRL1SQLX statement, the connection remains open for each SQL statement call. The connection does not terminate until a CALL DRL1SQLX TERM statement closes it.

If the REXX program does not pass INIT as the argument for the CALL DRL1SQLX statement, the connection is opened at the beginning of each CALL DRL1SQLX $sql_statement$ and closed at its conclusion, which makes SQL ROLLBACK impossible.

If you are making more than three calls to DRL1SQLX, it is more efficient to use the CALL DRL1SQLX INIT statement first.

$sql_statement$

An SQL SELECT or another SQL statement that can be executed with

Calling the DRL1SQLX module

an EXECUTE IMMEDIATE statement. DRL1SQLX appends the SQL statement to SQL EXECUTE IMMEDIATE and executes it.

TERM Terminates an existing connection to DB2 and performs an implied COMMIT.

Input REXX variables

The calling program can define these variables before calling DRL1SQLX:

DB2SUBS The DB2 subsystem that DRL1SQLX addresses.

There is no default for this variable; it must be defined.

DB2PLAN The name of the DB2 application plan. This variable should be coded only if the installation changed the default plan name DRLPLAN when the Tivoli Decision Support for z/OS bind job was run.

SQLSTEM The stem of the REXX array that DRL1SQLX uses to return table values when the argument is an SQL SELECT statement.

The stem has an initial value of SQLDATA.

SQLMAX The maximum number of rows to fetch when the argument is an SQL SELECT statement.

SQLMAX has an default value of 5000. Pick an SQLMAX limit that protects you from runaway queries. The maximum supported value is 99999999.

Output REXX variables

DRL1SQLX always sets these variables:

RESULT The DRL1SQLX return code.

When the argument is an SQL SELECT, DRL1SQLX sets RESULT to 4 if the number of rows in the table is greater than the value of SQLMAX. It issues a message, DRL1007W, to warn you of the condition but completes the select, returning the number of rows specified in SQLMAX.

DRL1SQLX sets these return codes in RESULT:

- 0 Successful execution.
- 4 SQLCODE > 0, SQLMAX invalid or the SQLMAX limit was reached. The error message is in SQLMSG.
- 8 SQLCODE < 0 indicates an SQL error. The error message is in SQLMSG.
- 12 An error that is not an SQL error. The error message is in SQLMSG.
- 16 There was either insufficient REXX storage or a REXX variable that could not be set. The error appears in SQLMSG, if possible.
- 20 The REXX communication routine IRXEXCOM could not be loaded. There is no indication of the error in SQLMSG.

SQLCODE The SQL return code.

This value is positive when there is an SQL warning and negative when there is an SQL error. It is returned in combination with a RESULT of 4 or 8, exclusively.

SQLMSG.0 The number of different message values returned when RESULT > 0

SQLMSG.1 The value of the first message returned when RESULT > 0

Up to 5 messages can be returned.
SQLMSG.n The value of the last message returned when RESULT > 0
 The value of *n* is the value of SQLMSG.0.

These variables are set by DRL1SQLX after a successful execution of an SQL SELECT statement. For each variable below, *sqlstem* is the value of the SQLSTEM input variable, *y* is the column number, and *z* is the row number:

sqlstem.NAME.0

The number of selected columns.

sqlstem.NAME.y

The names of the selected columns.

The column name of an expression is blank. Each value of *y* is a whole number from 1 through *sqlstem.NAME.0*.

sqlstem.LENGTH.y

The maximum length of the value of the selected columns.

A column name can be longer than the value. Each value of *y* is a whole number from 1 through *sqlstem.NAME.0*.

sqlstem.TYPE.y

The data types of the selected columns.

Each type is copied from the SQLTYPE field in the SQL descriptor area (SQLDA) and is a number ranging from 384 to 501. Each value of *y* is a whole number from 1 through *sqlstem.NAME.0*.

sqlstem.0

The number of rows in the result table.

sqlstem.y.z

The value of the column.

Each value of *y* is a whole number from 1 through *sqlstem.NAME.0*.

Each value of *z* is a whole number from 1 through *sqlstem.0*.

Reserved REXX variable

DRL1SQLX always sets the variable SQLHANDLE on the INIT statement. It must not be reset except by the TERM statement, which must be able to read the value set by the last INIT statement.

SQLHANDLE contains the handle returned when DRL1SQLX connects to DB2 with the INIT statement.

Calling the DRL1SQLX module

REXX example of calling DRL1SQLX

```
/**REXX*****  
/* Execute an SQL SELECT statement and display output */  
/*****  
  
sqlstmt = "SELECT *",  
          "FROM DRL.MVS_SYSTEM_H",  
          "WHERE DATE = '2000-05-02'"  
  
db2subs = 'DB2T'           /* subsystem name      */  
sqlstem = 'RES'           /* name of stem        */  
sqlmax = 100              /* limit on nbr of rows */  
  
Call DRL1SQLX sqlstmt     /* execute SQL statement */  
  
Say 'DRL1SQLX return code:' result  
Say 'SQL return code SQLCODE:' sqlcode  
  
If sqlmsg.0 > 0 Then  
  Do n = 1 To sqlmsg.0     /* up to 5 error msgs */  
    Say sqlmsg.n  
  End  
  
If res.name.0 > 0 Then     /* number of columns */  
  
  /*****  
  /* Display column names and values for all rows */  
  /*****  
  If res.0 > 0 Then        /* number of rows */  
    Do z = 1 To res.0  
      Say ' '  
      Say 'Following values were returned for row 'z':'  
      Do y = 1 To res.name.0  
        Say res.name.y': 'res.y.z  
      End  
    End  
  Else  
    Say 'No rows were returned'  
Exit
```

Figure 128. Example of REXX-SQL interface call

Appendix A. Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully.

Accessibility features

These are the major accessibility features you can use with Tivoli Decision Support for z/OS when accessing it via the *IBM Personal Communications* terminal emulator:

- You can operate all features using the keyboard instead of the mouse.
- You can read text through interaction with assistive technology.
- You can use system settings for font, size, and color for all user interface controls.
- You can magnify what is displayed on your screen.

Using assistive technologies

Assistive technology products, such as screen readers, function with the user interfaces found in z/OS. Consult the assistive technology documentation for specific information when using such products to access z/OS interfaces.

Keyboard navigation

Question for Reviewers:

What should go here? Below are extracts from the standard example and from ISPF.

Standard:

This product uses standard Microsoft Windows navigation keys.

From ISPF:

Users can access z/OS user interfaces using TSO/E or ISPF.

Refer to , , and for information about accessing TSO/E and ISPF interfaces.

These guides describe how to use TSO/E and ISPF,

including the use of keyboard shortcuts or function keys (PF keys).

Each guide includes the default settings for the PF keys and explains how to modify their functions.

IBM and accessibility

See the IBM Accessibility Center web site at <http://www.ibm.com/able/> for more information about the commitment that IBM has to accessibility.

Appendix B. Support information

If you have a problem with your IBM software, you want to resolve it quickly. This section describes the following options for obtaining support for IBM software products:

- “Searching knowledge bases”
- “Obtaining fixes”
- “Receiving weekly support updates” on page 360
- “Contacting IBM Software Support” on page 361

Searching knowledge bases

You can search the available knowledge bases to determine whether your problem was already encountered and is already documented.

Searching the information center

IBM provides extensive documentation that can be installed on your local computer or on an intranet server. You can use the search function of this information center to query conceptual information, instructions for completing tasks, and reference information.

Searching the Internet

If you cannot find an answer to your question in the information center, search the Internet for the latest, most complete information that might help you resolve your problem.

To search multiple Internet resources for your product, use the **Web search** topic in your information center. In the navigation frame, click **Troubleshooting and support** ► **Searching knowledge bases** and select **Web search**. From this topic, you can search a variety of resources, including the following:

- IBM technotes
- IBM downloads
- IBM developerWorks®
- Forums and newsgroups
- Google

Obtaining fixes

A product fix might be available to resolve your problem. To determine what fixes are available for your IBM software product, follow these steps:

1. Go to the IBM Software Support Web site at <http://www.ibm.com/software/support/>.
2. Click **Downloads and drivers** in the **Support topics** section.
3. Select the **Software** category.
4. Select a product in the **Sub-category** list.
5. In the **Find downloads and drivers by product** section, select one software category from the **Category** list.
6. Select one product from the **Sub-category** list.

7. Type more search terms in the **Search within results** if you want to refine your search.
8. Click **Search**.
9. From the list of downloads returned by your search, click the name of a fix to read the description of the fix and to optionally download the fix.

For more information about the types of fixes that are available, see the *IBM Software Support Handbook* at <http://techsupport.services.ibm.com/guides/handbook.html>.

Receiving weekly support updates

To receive weekly e-mail notifications about fixes and other software support news, follow these steps:

1. Go to the IBM Software Support Web site at <http://www.ibm.com/support/us/>.
2. Click **My support** in the upper right corner of the page.
3. If you have already registered for **My support**, sign in and skip to the next step. If you have not registered, click **register now**. Complete the registration form using your e-mail address as your IBM ID and click **Submit**.
4. Click **Edit profile**.
5. In the **Products** list, select **Software**. A second list is displayed.
6. In the second list, select a product segment, for example, **Application servers**. A third list is displayed.
7. In the third list, select a product sub-segment, for example, **Distributed Application & Web Servers**. A list of applicable products is displayed.
8. Select the products for which you want to receive updates, for example, **IBM HTTP Server** and **WebSphere® Application Server**.
9. Click **Add products**.
10. After selecting all products that are of interest to you, click **Subscribe to email** on the **Edit profile** tab.
11. Select **Please send these documents by weekly email**.
12. Update your e-mail address as needed.
13. In the **Documents** list, select **Software**.
14. Select the types of documents that you want to receive information about.
15. Click **Update**.

If you experience problems with the **My support** feature, you can obtain help in one of the following ways:

Online

Send an e-mail message to erchelp@ca.ibm.com, describing your problem.

By phone

Call 1-800-IBM-4You (1-800-426-4968).

Contacting IBM Software Support

IBM Software Support provides assistance with product defects.

Before contacting IBM Software Support, your company must have an active IBM software maintenance contract, and you must be authorized to submit problems to IBM. The type of software maintenance contract that you need depends on the type of product you have:

- For IBM distributed software products (including, but not limited to, Tivoli, Lotus®, and Rational® products, as well as DB2 and WebSphere products that run on Windows, or UNIX operating systems), enroll in Passport Advantage® in one of the following ways:

Online

Go to the Passport Advantage Web site at http://www.lotus.com/services/passport.nsf/WebDocs/Passport_Advantage_Home and click **How to Enroll**.

By phone

For the phone number to call in your country, go to the IBM Software Support Web site at <http://techsupport.services.ibm.com/guides/contacts.html> and click the name of your geographic region.

- For customers with Subscription and Support (S & S) contracts, go to the Software Service Request Web site at <https://techsupport.services.ibm.com/ssr/login>.
- For customers with IBMLink, CATIA, Linux, S/390®, iSeries®, pSeries, zSeries, and other support agreements, go to the IBM Support Line Web site at <http://www.ibm.com/services/us/index.wss/so/its/a1000030/dt006>.
- For IBM eServer™ software products (including, but not limited to, DB2 and WebSphere products that run in zSeries, pSeries, and iSeries environments), you can purchase a software maintenance agreement by working directly with an IBM sales representative or an IBM Business Partner. For more information about support for eServer software products, go to the IBM Technical Support Advantage Web site at <http://www.ibm.com/servers/eserver/techsupport.html>.

If you are not sure what type of software maintenance contract you need, call 1-800-IBMSERV (1-800-426-7378) in the United States. From other countries, go to the contacts page of the *IBM Software Support Handbook on the Web* at <http://techsupport.services.ibm.com/guides/contacts.html> and click the name of your geographic region for phone numbers of people who provide support for your location.

To contact IBM Software support, follow these steps:

1. “Determining the business impact”
2. “Describing problems and gathering information” on page 362
3. “Submitting problems” on page 362

Determining the business impact

When you report a problem to IBM, you are asked to supply a severity level. Therefore, you need to understand and assess the business impact of the problem that you are reporting. Use the following criteria:

Severity 1

The problem has a *critical* business impact. You are unable to use the program, resulting in a critical impact on operations. This condition requires an immediate solution.

Severity 2

The problem has a *significant* business impact. The program is usable, but it is severely limited.

Severity 3

The problem has *some* business impact. The program is usable, but less significant features (not critical to operations) are unavailable.

Severity 4

The problem has *minimal* business impact. The problem causes little impact on operations, or a reasonable circumvention to the problem was implemented.

Describing problems and gathering information

When describing a problem to IBM, be as specific as possible. Include all relevant background information so that IBM Software Support specialists can help you solve the problem efficiently. To save time, know the answers to these questions:

- What software versions were you running when the problem occurred?
- Do you have logs, traces, and messages that are related to the problem symptoms? IBM Software Support is likely to ask for this information.
- Can you re-create the problem? If so, what steps were performed to re-create the problem?
- Did you make any changes to the system? For example, did you make changes to the hardware, operating system, networking software, and so on.
- Are you currently using a workaround for the problem? If so, be prepared to explain the workaround when you report the problem.

Submitting problems

You can submit your problem to IBM Software Support in one of two ways:

Online

Click **Submit and track problems** on the IBM Software Support site at <http://www.ibm.com/software/support/probsub.html>. Type your information into the appropriate problem submission form.

By phone

For the phone number to call in your country, go to the contacts page of the *IBM Software Support Handbook* at <http://techsupport.services.ibm.com/guides/contacts.html> and click the name of your geographic region.

If the problem you submit is for a software defect or for missing or inaccurate documentation, IBM Software Support creates an Authorized Program Analysis Report (APAR). The APAR describes the problem in detail. Whenever possible, IBM Software Support provides a workaround that you can implement until the APAR is resolved and a fix is delivered. IBM publishes resolved APARs on the Software Support Web site daily, so that other users who experience the same problem can benefit from the same resolution.

Appendix C. Component objects modified by migration from 1.7

This appendix contains information about the component objects that have been modified by IBM for migration from product Version 1.7 to Version 1.8.1.

Component objects belonging to these Tivoli Decision Support for z/OS features are affected:

- “Base feature objects modified by migration from 1.7” on page 364.
- “CICS Partitioning feature objects modified by migration from 1.7” on page 364.
- “CICS Performance feature objects modified by migration from 1.7” on page 371.
- “DB2 objects modified by migration from 1.7” on page 379.
- “DFRMM objects modified by migration from 1.7” on page 384.
- “DFSMS objects modified by migration from 1.7” on page 384.
- “Distributed Systems Performance feature objects modified by migration from 1.7” on page 385.
- “Domino objects modified by migration from 1.7” on page 385.
- “IMS feature objects modified by migration from 1.7” on page 386.
- “OS/400 feature objects modified by migration from 1.7” on page 388.
- “Internet connection Secure Server objects modified by migration from 1.7” on page 388.
- “Network objects modified by migration from 1.7” on page 389.
- “Resource Accounting objects modified by migration from 1.7” on page 389.
- “Sample objects modified by migration from 1.7” on page 390.
- “System Performance feature objects modified by migration from 1.7” on page 390.
- “Tivoli Storage Manager (ADSM) objects modified by migration from 1.7” on page 412.
- “TWS for z/OS objects modified by migration from 1.7” on page 412.
- “WebSphere Application Server objects modified by migration from 1.7” on page 413.

As from Tivoli Decision Support for z/OS Version 1.8.1, the APAR/PTFs which modified the objects are also listed. Please note that this information is only available for objects which were modified since the GA of Tivoli Decision Support for z/OS Version 1.8.0. Objects modified prior to this, do not have any information listed in the APAR/PTFs column.

Base feature objects modified by migration from 1.7

Base feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
(Not applicable)	Record	SMF_018	DRLRS018	UK40307/PK71337 UK40310/PK71337
		SMF_019	DRLRS019	UK40307/PK71337 UK40310/PK71337
		SMF_022	DRLRS022	UK40307/PK71337 UK40310/PK71337
		SMF_023	DRLRS023	UK40307/PK71337 UK40310/PK71337
		SMF_082_2	DRLRS082	UK40307/PK71337 UK40310/PK71337
		SMF_099	DRLRS099	UK40307/PK71337 UK40310/PK71337

CICS Partitioning feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS (all components)	Table	EXCEPTION_T	DRLTEXCP	

CICS Partitioning feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned	Purge	CICS_RMI_PERF_DP CICS_RMI_PERF_HP CICS_RMI_PERF_TP	DRLTC8P7 DRLTC8P7 DRLTC8P7	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
	Record	SMF_110_1 SMF_110_1_C SMF_110_1_CO SMF_110_E SMF_CICS_E SMF_CICS_T	DRLRS110 DRLRS110 DRLRS110 DRLRS110 DRLRS110 DRLRS110	UK44303/PK75435 UK44307/PK75435 UK44303/PK75435 UK44307/PK75435 UK44303/PK75435 UK44307/PK75435 UK44303/PK75435 UK44307/PK75435
	Table	CICSWEB_A_BASIC_HP CICSWEB_A_BASIC_WP CICSWEB_A_USR_HP CICSWEB_A_USR_WP CICSWEB_TRANSAC_DP CICSWEB_TRANSAC_WP CICSWEB_TRAN_US_DP CICSWEB_TRAN_US_HP CICSWEB_TRAN_US_WP CICS_A_BASIC_HP CICS_A_BASIC_WP CICS_A_USR_HP CICS_A_USR_WP CICS_RMI_PERF_DP CICS_RMI_PERF_HP CICS_RMI_PERF_TP CICS_TRANSACTION_DP CICS_TRANSACTION_WP CICS_TRAN_USR_DP CICS_TRAN_USR_HP CICS_TRAN_USR_WP	DRLTC4P1 DRLTC4P1 DRLTC4P2 DRLTC4P2 DRLTC1P1 DRLTC1P1 DRLTC1P2 DRLTC1P0 DRLTC1P2 DRLTC4P1 DRLTC4P1 DRLTC4P2 DRLTC4P2 DRLTC8P7 DRLTC8P7 DRLTC8P7 DRLTC1P1 DRLTC1P1 DRLTC1P2 DRLTC1P0 DRLTC1P2	

CICS Partitioning feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned (continued)	Update	CICSBTS_TRAN_US_HP	DRLTC1P0	UK44303/PK75435
		CICSCHN_TRAN_US_HP	DRLTC1P0	UK44307/PK75435
		CICSDOC_TRAN_US_HP	DRLTC1P0	UK44303/PK75435
		CICSWEB_A_BASIC_HP	DRLTC4P1	UK44307/PK75435
		CICSWEB_A_BASIC_WP	DRLTC4P1	UK44307/PK75435
		CICSWEB_A_USR_HP	DRLTC4P2	UK44303/PK75435
		CICSWEB_A_USR_WP	DRLTC4P2	UK44307/PK75435
		CICSWEB_TRANSACT_DP	DRLTC1P1	UK44303/PK75435
		CICSWEB_TRANSACT_WP	DRLTC1P1	UK44307/PK75435
		CICSWEB_TRAN_US_DP	DRLTC1P2	UK44303/PK75435
		CICSWEB_TRAN_US_HP	DRLTC1P0	UK44307/PK75435
		CICSWEB_TRAN_US_WP	DRLTC1P2	UK44303/PK75435
		CICS_A_BASIC_HP	DRLTC4P1	UK44303/PK75435
		CICS_A_BASIC_WP	DRLTC4P1	UK44307/PK75435
		CICS_A_USR_HP	DRLTC4P2	UK44303/PK75435
		CICS_A_USR_WP	DRLTC4P2	UK44307/PK75435
		CICS_BEAN_REQ_HP	DRLTP15J	UK44303/PK75435
		CICS_DLI_USR_HP	DRLTC3P0	UK44307/PK75435
		CICS_RMI_PERF_D	DRLTC8P7	UK44303/PK75435
		CICS_RMI_PERF_D1	DRLTC8P7	UK44307/PK75435
		CICS_RMI_PERF_DP1	DRLTC8P7	UK44303/PK75435
		CICS_RMI_PERF_DP1	DRLTC8P7	UK44307/PK75435
		CICS_RMI_PERF_H	DRLTC8P7	UK44303/PK75435
		CICS_RMI_PERF_H1	DRLTC8P7	UK44307/PK75435
		CICS_RMI_PERF_HP1	DRLTC8P7	UK44303/PK75435
		CICS_RMI_PERF_HP1	DRLTC8P7	UK44307/PK75435
		CICS_RMI_PERF_T1	DRLTC8P7	UK44303/PK75435
		CICS_RMI_PERF_T1	DRLTC8P7	UK44307/PK75435
		CICS_RMI_PERF_T2	DRLTC8P7	UK44303/PK75435
		CICS_RMI_PERF_T2	DRLTC8P7	UK44307/PK75435
CICS_RMI_PERF_TP1	DRLTC8P7	UK44303/PK75435		
CICS_RMI_PERF_TP1	DRLTC8P7	UK44307/PK75435		
CICS_RMI_PERF_TP2	DRLTC8P7	UK44303/PK75435		
CICS_RMI_PERF_TP2	DRLTC8P7	UK44307/PK75435		
CICS_TRANSACTION_DP	DRLTC1P1	UK44303/PK75435		
CICS_TRANSACTION_WP	DRLTC1P1	UK44307/PK75435		
CICS_TRAN_USR_DP	DRLTC1P2	UK44303/PK75435		
CICS_TRAN_USR_H2	DRLTC1P0	UK44307/PK75435		
CICS_TRAN_USR_HP	DRLTC1P0	UK44303/PK75435		
CICS_TRAN_USR_WP	DRLTC1P2	UK44307/PK75435		
CICS_T_TRAN_TP1	DRLTC9P1	UK44303/PK75435		
CICS_T_TRAN_TP1	DRLTC9P1	UK44307/PK75435		
CICS_X_ABEND_TRAN	DRLUCIEM			
CICS Statistics Partitioned	Migrate job	DRLJC076 DRLJC76P	DRLJC076 DRLJC76p	

CICS Partitioning feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics Partitioned (continued)	Table	CICS_DOCT_RES_DP	DRLTC8P6	
		CICS_DOCT_RES_HP	DRLTC8P6	
		CICS_MVSTCB_DP	DRLTC8P2	
		CICS_MVSTCB_HP	DRLTC8P2	
		CICS_MVSTCB_RES_DP	DRLTC8P3	
		CICS_MVSTCB_RES_HP	DRLTC8P3	
		CICS_SMD_SUBP_DP	DRLTC8P1	
		CICS_SMD_SUBP_HP	DRLTC8P1	
		CICS_S_CFDT_SER_DP	DRLTS3P8	
		CICS_S_CFDT_SER_TP	DRLTS3P8	
		CICS_S_DISPATCH_DP	DRLTS1P6	
		CICS_S_DISPATCH_TP	DRLTS1P6	
		CICS_S_DSPOOL_DP	DRLTS1P6	
		CICS_S_DSPOOL_TP	DRLTS1P6	
		CICS_S_FILE_DP	DRLTS1P1	
		CICS_S_FILE_TP	DRLTS1P1	
		CICS_S_INTERCOM_DP	DRLTS2P2	
		CICS_S_INTERCOM_TP	DRLTS2P2	
		CICS_S_JVM_PROF_DP	DRLTS1P6	
		CICS_S_JVM_PROF_TP	DRLTS1P6	
		CICS_S_LSR_POOL_TP	DRLTS2P4	
		CICS_S_MONITOR_DP	DRLTS2P5	
		CICS_S_MONITOR_TP	DRLTS2P5	
		CICS_S_NC_LSTRU_DP	DRLTS4P3	
		CICS_S_NC_LSTRU_TP	DRLTS4P3	
		CICS_S_PIPELINE_TP	DRLTS4P8	
		CICS_S_PROGRAM_DP	DRLTS2P6	
		CICS_S_PROGRAM_TP	DRLTS2P6	
		CICS_S_STOR_DSA_DP	DRLTS2P8	
		CICS_S_STOR_DSA_TP	DRLTS2P8	
		CICS_S_TCPIP_DP	DRLTS3P7	
		CICS_S_TCPIP_TP	DRLTS3P7	
		CICS_S_TRAN_TP	DRLTS3P2	
		CICS_TCPIP_CONN_DP	DRLTC8P5	
	CICS_TCPIP_CONN_HP	DRLTC8P5		
	CICS_WMQ_CONN_DP	DRLTC8P4		
	CICS_WMQ_CONN_HP	DRLTC8P4		
	Tablespace	DRLSCS76	DRLSCS76	
		DRLSPS0A	DRLSPS01	
		DRLSPS0B	DRLSPS01	
		DRLSPS0C	DRLSPS01	
		DRLSPS0D	DRLSPS01	
		DRLSPS0E	DRLSPS01	
		DRLSPS0F	DRLSPS01	
		DRLSPS0G	DRLSPS01	
		DRLSPS0H	DRLSPS01	
		DRLSPS0I	DRLSPS01	
DRLSPS0J		DRLSPS01		
DRLSPS0K		DRLSPS01		
DRLSPS0L		DRLSPS01		

CICS Partitioning feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics Partitioned (continued)	Update	CICS_DOCT_RES_DP	DRLTC8P6	
		CICS_DOCT_RES_HP	DRLTC8P6	
		CICS_MVSTCB_DP	DRLTC8P2	
		CICS_MVSTCB_HP	DRLTC8P2	
		CICS_MVSTCB_RES_DP	DRLTC8P3	
		CICS_MVSTCB_RES_HP	DRLTC8P3	
		CICS_SMD_SUBP_DP	DRLTC8P1	
		CICS_SMD_SUBP_HP	DRLTC8P1	
		CICS_S_CFDI_SER_DP	DRLTS3P8	
		CICS_S_CFDI_SER_TP	DRLTS3P8	
		CICS_S_DSPool_DP	DRLTS1P6	
		CICS_S_DSPool_TP	DRLTS1P6	
		CICS_S_ENQUE_MGR_TP	DRLTS3P4	UK44303/PK75435 UK44307/PK75435
		CICS_S_ENQU_MGR2_TP	DRLTS3P4	UK44303/PK75435 UK44307/PK75435
		CICS_S_FILE_DP	DRLTS1P1	
		CICS_S_FILE_TP	DRLTS1P1	
		CICS_S_GLOBAL_48P	DRLTS2P1	
		CICS_S_INTERCOM_DP	DRLTS2P2	
		CICS_S_INTER_52P	DRLTS2P2	
		CICS_S_INTER_54P	DRLTS2P2	
		CICS_S_JVMPOOL_TP	DRLTS1P6	
		CICS_S_JVM_PROF_DP	DRLTS1P6	
		CICS_S_JVM_PROF_TP	DRLTS1P6	
		CICS_S_LS_POOL393P	DRLTS2P4	
		CICS_S_MONITOR_DP	DRLTS2P5	
		CICS_S_MONITOR_TP	DRLTS2P5	
		CICS_S_NC_LSTRU_DP	DRLTS4P3	
		CICS_S_NC_LSTRU_TP	DRLTS4P3	
		CICS_S_PIPELINE_TP	DRLTS4P8	
		CICS_S_PROGRAM_DP	DRLTS2P6	
		CICS_S_PROGRAM_TP	DRLTS2P6	UK44303/PK75435 UK44307/PK75435
		CICS_S_PROGRA_T23P	DRLTS2P6	UK44303/PK75435 UK44307/PK75435
		CICS_S_PROGRA_TDSP	DRLTS2P6	UK44303/PK75435 UK44307/PK75435
		CICS_S_PROGRA_TGLP	DRLTS2P6	UK44303/PK75435 UK44307/PK75435
		CICS_S_RECO_MGR_TP	DRLTS3P4	UK44303/PK75435 UK44307/PK75435
		CICS_S_STOR_D14_TP	DRLTS2P8	
		CICS_S_STOR_DSA_DP	DRLTS2P8	
		CICS_S_STOR_DSA_TGP	DRLTS2P8	
		CICS_S_STOR_G14_TP	DRLTS2P8	
		CICS_S_TCPIP_DP	DRLTS3P7	
		CICS_S_TCPIP_TP	DRLTS3P7	
		CICS_S_TERMINAL_AP	DRLTS1P3	UK44303/PK75435 UK44307/PK75435
		CICS_S_TERMINAL_TP	DRLTS1P3	UK44303/PK75435 UK44307/PK75435
		CICS_S_TRANSIEN_GP	DRLTS3P3	
		CICS_S_TRAN_TP	DRLTS3P2	UK44303/PK75435 UK44307/PK75435

CICS Partitioning feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics Partitioned (continued)	Update (continued)	CICS_S_TRAN_T_11P	DRLTS3P2	UK44303/PK75435 UK44307/PK75435
		CICS_TCPIP_CONN_DP CICS_TCPIP_CONN_HP CICS_WMQ_CONN_DP CICS_WMQ_CONN_HP CICS_X_STATS_50 CICS_X_STATS_51 CICS_X_STOR_49	DRLTC8P5 DRLTC8P5 DRLTC8P4 DRLTC8P4 DRLUCIES DRLUCIES DRLUCIES	
CICS Trans&UOW Analysis Partitioning	Purge	CICSBTS_T_TRAN_TP	DRLTC9P1	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		CICSCHN_T_TRAN_TP	DRLTC9P1	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		CICSDOC_T_TRAN_TP	DRLTC9P1	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		CICSWEB_T_TRAN_TP	DRLTC9P1	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		CICS_T_TRAN_TP	DRLTC9P1	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
	Record	SMF_110_1	DRLRS110	UK44303/PK75435 UK44307/PK75435
		SMF_110_1_C	DRLRS110	UK44303/PK75435 UK44307/PK75435
		SMF_110_1_CO	DRLRS110	UK44303/PK75435 UK44307/PK75435
		SMF_110_E SMF_CICS_T	DRLRS110 DRLRS110	UK44303/PK75435 UK44307/PK75435
Table	CICSWEB_T_TRAN_TP	DRLTC9P1		
	CICS_T_TRAN_TP	DRLTC9P1		

CICS Partitioning feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Trans&UOW Analysis Partitioning (continued)	Update	CICSBTS_T_TRAN_TP	DRLTC9P1	UK44303/PK75435
		CICSCHN_T_TRAN_TP	DRLTC9P1	UK44307/PK75435
		CICSDOC_T_TRAN_TP	DRLTC9P1	UK44303/PK75435
		CICSWEB_T_TRAN_TP	DRLTC9P1	UK44307/PK75435
		CICSWEB_T_TRAN_TP1	DRLTC9P1	UK44303/PK75435
		CICS_T_TRAN_TP CICS_T_TRAN_TP1	DRLTC9P1 DRLTC9P1	UK44307/PK75435

CICS Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS (all components)	Table	EXCEPTION_T	DRLTEXCE	
CICS Monitoring	Purge	CICS_RMI_PERF_D CICS_RMI_PERF_H CICS_RMI_PERF_T	DRLTC850 DRLTC850 DRLTC850	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
	Record	SMF_110_1 SMF_110_1_C SMF_110_1_CO SMF_110_E SMF_CICS_E SMF_CICS_T SMF_CICS_TR	DRLRS110 DRLRS110 DRLRS110 DRLRS110 DRLRS110 DRLRS110 DRLR110T	UK44303/PK75435 UK44307/PK75435 UK44303/PK75435 UK44307/PK75435 UK44303/PK75435 UK44307/PK75435 UK44303/PK75435 UK44307/PK75435

CICS Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Table	CICSWEB_A_BASIC_H	DRLTC401	
		CICSWEB_A_BASIC_W	DRLTC401	
		CICSWEB_A_USR_H	DRLTC402	
		CICSWEB_A_USR_W	DRLTC402	
		CICSWEB_TRANSACT_D	DRLTC101	
		CICSWEB_TRANSACT_H	DRLTC101	
		CICSWEB_TRANSACT_W	DRLTC101	
		CICSWEB_TRAN_USR_D	DRLTC102	
		CICSWEB_TRAN_USR_H	DRLTCITR	
		CICSWEB_TRAN_USR_W	DRLTC102	
		CICS_A_BASIC_H	DRLTC401	
		CICS_A_BASIC_W	DRLTC401	
		CICS_A_USR_H	DRLTC402	
		CICS_A_USR_W	DRLTC402	
		CICS_BEAN_REQ_D	DRLTC15J	
		CICS_BEAN_REQ_W	DRLTC15J	
		CICS_FIELD	DRLTCIFI	
		CICS_RMI_PERF_D	DRLTC850	
		CICS_RMI_PERF_H	DRLTC850	
		CICS_RMI_PERF_T	DRLTC850	
		CICS_TRANSACTION_D	DRLTC101	
		CICS_TRANSACTION_H	DRLTC101	
		CICS_TRANSACTION_W	DRLTC101	
		CICS_TRAN_USR_D	DRLTC102	
		CICS_TRAN_USR_H	DRLTCITR	
		CICS_TRAN_USR_W	DRLTC102	

CICS Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Update	CICSBTS_A_BASIC_H	DRLTC401	UK44303/PK75435
		CICSBTS_A_USR_H	DRLTC402	UK44307/PK75435
		CICSBTS_TRANSACT_H	DRLTC101	UK44303/PK75435
		CICSBTS_TRAN_USR_H	DRLTCITR	UK44307/PK75435
		CICSCHN_A_BASIC_H	DRLTC401	UK44303/PK75435
		CICSCHN_A_USR_H	DRLTC402	UK44307/PK75435
		CICSCHN_TRANSACT_H	DRLTC101	UK44303/PK75435
		CICSCHN_TRAN_USR_H	DRLTCITR	UK44307/PK75435
		CICSDOC_A_BASIC_H	DRLTC401	UK44303/PK75435
		CICSDOC_A_USR_H	DRLTC402	UK44307/PK75435
		CICSDOC_TRANSACT_H	DRLTC101	UK44303/PK75435
		CICSDOC_TRAN_USR_H	DRLTCITR	UK44307/PK75435
		CICSWEB_A_BASIC_H	DRLTC401	UK44303/PK75435
		CICSWEB_A_BASIC_W	DRLTC401	UK44303/PK75435
		CICSWEB_A_USR_H	DRLTC402	UK44307/PK75435
		CICSWEB_A_USR_W	DRLTC402	UK44307/PK75435
		CICSWEB_TRANSACT_D	DRLTC101	UK44303/PK75435
		CICSWEB_TRANSACT_H	DRLTC101	UK44307/PK75435
		CICSWEB_TRANSACT_H1	DRLTCITR	UK44303/PK75435
		CICSWEB_TRANSACT_W	DRLTC101	UK44307/PK75435
		CICSWEB_TRAN_USR_D	DRLTC102	UK44303/PK75435
		CICSWEB_TRAN_USR_H	DRLTCITR	UK44307/PK75435
		CICSWEB_TRAN_USR_W	DRLTC102	UK44303/PK75435
		CICSWEB_X_ABEND_TRANT	DRLUCIEM	UK44303/PK75435
		CICS_A_BASIC_H	DRLTC401	UK44307/PK75435
		CICS_A_BASIC_H1	DRLTC401	UK44303/PK75435
		CICS_A_BASIC_W	DRLTC401	UK44307/PK75435
		CICS_A_DLI_H	DRLTC601	UK44303/PK75435
		CICS_A_DLI_USR_H	DRLTC602	UK44307/PK75435
		CICS_A_USR_H	DRLTC402	UK44303/PK75435
CICS_A_USR_H1	DRLTC402	UK44307/PK75435		
CICS_A_USR_W	DRLTC402	UK44303/PK75435		
CICS_BEAN_REQ_H	DRLTC15J	UK44307/PK75435		
CICS_DLI_TRAN_H	DRLTC301	UK44303/PK75435		

CICS Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Update (continued)	CICS_DLI_USR_H	DRLTC300	UK44307/PK75435 UK44303/PK75435 UK44307/PK75435
		CICS_FILE_TRAN_H	DRLTC14T	
		CICS_FILE_TRAN_HP	DRLTC14T	
		CICS_QUEUE_TRAN_H	DRLTC14T	
		CICS_QUEUE_TRAN_HP	DRLTC14T	
		CICS_RMI_PERF_D	DRLTC850	
		CICS_RMI_PERF_H	DRLTC850	
		CICS_RMI_PERF_T	DRLTC850	
		CICS_RMI_PERF_T1	DRLTC850	UK44303/PK75435 UK44307/PK75435
		CICS_RMI_PERF_T2	DRLTC850	UK44303/PK75435 UK44307/PK75435
		CICS_TRANSACTION_D	DRLTC101	
		CICS_TRANSACTION_H	DRLTC101	
		CICS_TRANSACTION_W	DRLTC101	
		CICS_TRANSACT_H1	DRLTC101	UK44303/PK75435 UK44307/PK75435
CICS_TRAN_USR_D	DRLTC102			
CICS_TRAN_USR_H	DRLTCITR			
CICS_TRAN_USR_H1	DRLTCITR	UK44303/PK75435 UK44307/PK75435		
CICS_TRAN_USR_W	DRLTC102			
CICS Statistics	Migrate job	DRLJC076	DRLJC076	
	Purge	CICS_DOCT_RES_D CICS_DOCT_RES_H CICS_MVSTCB_D CICS_MVSTCB_H CICS_MVSTCB_RES_D CICS_MVSTCB_RES_H CICS_SMD_SUBP_D CICS_SMD_SUBP_H CICS_TCPIP_CONN_D CICS_TCPIP_CONN_H CICS_WMQ_CONN_D CICS_WMQ_CONN_H	DRLTC849 DRLTC849 DRLTC845 DRLTC845 DRLTC846 DRLTC846 DRLTC844 DRLTC844 DRLTC848 DRLTC848 DRLTC847 DRLTC847	

CICS Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics (continued)	Record	SMF_110_2_02	DRLR1102	
		SMF_110_2_05	DRLR1102	
		SMF_110_2_105	DRLR1102	
		SMF_110_2_106	DRLR1102	
		SMF_110_2_108	DRLR1102	
		SMF_110_2_109	DRLR1102	
		SMF_110_2_112	DRLR1102	
		SMF_110_2_117	DRLR1102	
		SMF_110_2_118	DRLR1102	
		SMF_110_2_14	DRLR1102	
		SMF_110_2_25	DRLR1102	
		SMF_110_2_30	DRLR1102	
		SMF_110_2_52	DRLR1102	
		SMF_110_2_60	DRLR1102	
		SMF_110_2_64	DRLR1102	
		SMF_110_2_65	DRLR1102	
		SMF_110_2_67	DRLR1102	
		SMF_110_2_74	DRLR1102	
		SMF_110_2_76	DRLR1102	
		SMF_110_2_81	DRLR1102	
SMF_110_4_126	DRLR1103			
SMF_110_5_124	DRLR1103			
	Report	CICS801	DRLOCI08	UK31784/PK54517 UK31785/PK54517
		CICS808	DRLOCI08	UK31784/PK54517 UK31785/PK54517
		CICS811	DRLOCI08	UK31784/PK54517 UK31785/PK54517
		CICS826	DRLOCI08	UK31784/PK54517 UK31785/PK54517
		CICS827	DRLOCI08	UK31784/PK54517 UK31785/PK54517

CICS Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics (continued)	Table	CICS_DOCT_RES_D	DRLTC849	
		CICS_DOCT_RES_H	DRLTC849	
		CICS_MVSTCB_D	DRLTC845	
		CICS_MVSTCB_H	DRLTC845	
		CICS_MVSTCB_RES_D	DRLTC846	
		CICS_MVSTCB_RES_H	DRLTC846	
		CICS_SMD_SUBP_D	DRLTC844	
		CICS_SMD_SUBP_H	DRLTC844	
		CICS_S_CFDT_SERV_D	DRLTC831	
		CICS_S_CFDT_SERV_T	DRLTC831	
		CICS_S_DISPATCH_D	DRLTC807	
		CICS_S_DISPATCH_T	DRLTC807	
		CICS_S_DSPPOOL_D	DRLTC807	
		CICS_S_DSPPOOL_T	DRLTC807	
		CICS_S_ENTBEANS_D	DRLTC807	
		CICS_S_ENTBEANS_T	DRLTC807	
		CICS_S_FILE_D	DRLTC810	
		CICS_S_FILE_T	DRLTC810	
		CICS_S_INTERCOM_D	DRLTC808	
		CICS_S_INTERCOM_T	DRLTC808	
		CICS_S_JVM_PROF_D	DRLTC807	
		CICS_S_JVM_PROF_T	DRLTC807	
		CICS_S_MONITOR_D	DRLTC821	
		CICS_S_MONITOR_T	DRLTC821	
		CICS_S_NC_LSTRUC_D	DRLTC835	
		CICS_S_NC_LSTRUC_T	DRLTC835	
		CICS_S_PIPELINE_T	DRLTC841	
		CICS_S_PROGRAM_D	DRLTC812	
		CICS_S_PROGRAM_T	DRLTC812	
		CICS_S_STOR_DSA_D	DRLTC814	
		CICS_S_STOR_DSA_T	DRLTC814	
		CICS_S_TCPIP_D	DRLTC830	
		CICS_S_TCPIP_T	DRLTC830	
		CICS_TCPIP_CONN_D	DRLTC848	
	CICS_TCPIP_CONN_H	DRLTC848		
	CICS_WMQ_CONN_D	DRLTC847		
	CICS_WMQ_CONN_H	DRLTC847		
	Tablespace	DRLSCS0A	DRLSCS00	
		DRLSCS0B	DRLSCS00	
		DRLSCS76	DRLSCS76	
		DRLSPS0C	DRLSCS00	
		DRLSPS0D	DRLSCS00	
		DRLSPS0E	DRLSCS00	
		DRLSPS0F	DRLSCS00	
		DRLSPS0G	DRLSCS00	
		DRLSPS0H	DRLSCS00	
		DRLSPS0I	DRLSCS00	
DRLSPS0J		DRLSCS00		
DRLSPS0K		DRLSCS00		
DRLSPS0L		DRLSCS00		

CICS Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics (continued)	Update	CICS_DOCT_RES_D	DRLTC849	
		CICS_DOCT_RES_H	DRLTC849	
		CICS_MVSTCB_D	DRLTC845	
		CICS_MVSTCB_H	DRLTC845	
		CICS_MVSTCB_HP	DRLTC845	
		CICS_MVSTCB_RES_D	DRLTC846	
		CICS_MVSTCB_RES_H	DRLTC846	
		CICS_SMD_SUBP_D	DRLTC844	
		CICS_SMD_SUBP_H	DRLTC844	
		CICS_S_CFDI_SERV_D	DRLTC831	
		CICS_S_CFDI_SERV_T	DRLTC831	
		CICS_S_DSPOOL_D	DRLTC807	
		CICS_S_DSPOOL_T	DRLTC807	
		CICS_S_ENQUE_MGR_T	DRLTC827	
		CICS_S_ENQU_MGR2_T	DRLTC827	UK44303/PK75435
		CICS_S_FILE_D	DRLTC810	UK44307/PK75435
		CICS_S_FILE_T	DRLTC810	UK44303/PK75435
		CICS_S_INTERCOM_D	DRLTC808	UK44307/PK75435
		CICS_S_INTER_52	DRLTC808	
		CICS_S_JVMPOOL_T	DRLTC807	
		CICS_S_JVM_PROF_D	DRLTC807	
		CICS_S_JVM_PROF_T	DRLTC807	
		CICS_S_MONITOR_D	DRLTC821	
		CICS_S_MONITOR_T	DRLTC821	
		CICS_S_NC_LSTRUC_D	DRLTC835	
		CICS_S_NC_LSTRUC_T	DRLTC835	
		CICS_S_PIPELINE_T	DRLTC841	
		CICS_S_PROGRAM_D	DRLTC812	
		CICS_S_PROGRAM_T	DRLTC812	UK44303/PK75435
		CICS_S_PROGRAM_T23	DRLTC812	UK44307/PK75435
		CICS_S_PROGRAM_TDS	DRLTC812	UK44303/PK75435
		CICS_S_PROGRAM_TGL	DRLTC812	UK44307/PK75435
		CICS_S_RECOV_MGR_T	DRLTC827	UK44303/PK75435
		CICS_S_STOR_D14_T	DRLTC814	UK44307/PK75435
		CICS_S_STOR_D14_TP	DRLTC814	UK44303/PK75435
		CICS_S_STOR_DSA_D	DRLTC814	
		CICS_S_STOR_DSA_TG	DRLTC814	
		CICS_S_STOR_G14_T	DRLTC814	
		CICS_S_TCPIP_D	DRLTC830	
		CICS_S_TCPIP_T	DRLTC830	
CICS_S_TERMINAL_A	DRLTC802	UK44303/PK75435		
CICS_S_TERMINAL_T	DRLTC802	UK44307/PK75435		
CICS_S_TRAN_T	DRLTC803	UK44303/PK75435		
CICS_S_TRAN_T_11	DRLTC803	UK44307/PK75435		
CICS_S_TRAN_T_11	DRLTC803	UK44303/PK75435		
CICS_S_TRAN_T_11	DRLTC803	UK44307/PK75435		

CICS Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics (continued)	Update (continued)	CICS_TCPIP_CONN_D CICS_TCPIP_CONN_H CICS_WMQ_CONN_D CICS_WMQ_CONN_H CICS_X_STATS_50 CICS_X_STATS_51 CICS_X_STOR_49	DRLTC848 DRLTC848 DRLTC847 DRLTC847 DRLUCIES DRLUCIES DRLUCIES	
CICS Transaction and Unit-of-Work Analysis	Purge	CICSBTS_T_TRAN_T	DRLTC901	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		CICSCHN_T_TRAN_T	DRLTC901	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		CICSDOC_T_TRAN_T	DRLTC901	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		CICSWEB_T_TRAN_T	DRLTC901	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
CICS Transaction and Unit-of-Work Analysis	Record	SMF_110_1	DRLRS110	UK44303/PK75435 UK44307/PK75435
		SMF_110_1_C	DRLRS110	UK44303/PK75435 UK44307/PK75435
		SMF_110_1_CO	DRLRS110	UK44303/PK75435 UK44307/PK75435
		SMF_110_E SMF_CICS_T	DRLRS110 DRLRS110	UK44303/PK75435 UK44307/PK75435
CICS Transaction and Unit-of-Work Analysis	Table	CICSWEB_T_TRAN_T	DRLTC901	
		CICS_T_TRAN_T	DRLTC901	
CICS Transaction and Unit-of-Work Analysis (continued)	Update	CICSBTS_T_TRAN_T	DRLTC901	UK44303/PK75435 UK44307/PK75435
		CICSCHN_T_TRAN_T	DRLTC901	UK44303/PK75435 UK44307/PK75435
		CICSDOC_T_TRAN_T	DRLTC901	UK44303/PK75435 UK44307/PK75435
		CICSWEB_T_TRAN_T	DRLTC901	UK44303/PK75435 UK44307/PK75435
		CICS_T_TRAN_T CICS_T_TRAN_T1	DRLTC901 DRLTC901	UK44303/PK75435 UK44307/PK75435

DB2 objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2	migr.jcl	DRLJDB06	DRLJDB06	
	Record	SMF_100_0	DRLRS100	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		SMF_100_1	DRLRS100	UK34299/PK58831 UK34303/PK58831 UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		SMF_100_2	DRLRS100	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		SMF_100_3	DRLRS100	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		SMF_101	DRLRS101	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580 UK39049/PK70295
		SMF_101_1	DRLRS101	UK39049/PK70295
		SMF_102	DRLRS102	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580 UK39049/PK70295
			DRLRS101	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580

DB2 objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF			
DB2 (continued)	Reports	DB201	DRLODB24	UK34007/PK57882 UK34016/PK57882 UK34017/PK57882 UK34018/PK57882 UK34019/PK57882 UK34020/PK57882 UK34021/PK57882			
		DB202	DRLODB24				
		DB203	DRLODB24				
		DB204	DRLODB24				
		DB205	DRLODB24				
		DB206	DRLODB24				
		DB207	DRLODB22				
		DB208	DRLODB22				
		DB209	DRLODB22				
		DB210	DRLODB22				
		DB211	DRLODB22				
		DB212	DRLODB24				
		DB213	DRLODB24				
		DB214	DRLODB24				
		DB215	DRLODB23				
		DB216	DRLODB23				
		DB217	DRLODB22				
		DB218	DRLODB22				
		DB219	DRLODB23				
		DB220	DRLODB21				
		DB221	DRLODB25				
		DB222	DRLODB25				
		DB223	DRLODB26				
		DB224	DRLODB26				
		DB225	DRLODB26				
		DB226	DRLODB26				
		DB227	DRLODB24				
		DB228	DRLODB24				
		DB229	DRLODB24				
		DB230	DRLODB24				
		DB231	DRLODB24				
		DB232	DRLODB24				
		DB233	DRLODB26				
		DB234	DRLODB24				
		DB235	DRLODB24				
		DB236	DRLODB24				
		DB241	DRLODB24				
		DB242	DRLODB24				
			System		System definition	DRLIB2	

DB2 objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2 (continued)	Table	DB2_ACCUMACC	DRLTD2PL	UK43526/PK74556
		DB2_APPLICATION_H	DRLTD2A	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_APPLICATION_W	DRLTD2A	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_APPL_DIST_H	DRLTD2DA	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_APPL_DIST_W	DRLTD2DA	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_BP_SHARING_T	DRLTD2BS	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_BUFFER_POOL_T	DRLTD2BP	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_DATABASE_T	DRLTD2D	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_LOCK_SHARING	DRLTD2SH	UK34299/PK58831 UK34303/PK58831
		DB2_PACKAGE_D	DRLTD2PK DRLTD2PU	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580 UK43526/PK74556
		DB2_PACKAGE_H	DRLTD2PK	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580 UK43526/PK74556
		DB2_PACKAGE_W	DRLTD2PK DRLTD2PU	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580 UK43526/PK74556
		DB2_SYSTEM_DIST_T	DRLTD2DS	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_SYSTEM_T	DRLTD2S	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_SYS_PARAMETER	DRLTD2SP	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_TRANSACTION_D	DRLTD2T	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_TRANSACTION_W	DRLTD2T	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_TRAN_DIST_D	DRLTD2DT	UK36492/PK61580 UK36493/PK61580

DB2 objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
DB2 (continued)	Table (continued)	DB2_TRAN_DIST_W	DRLTD2DT	UK36494/PK61580 UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_APPL_H	DRLTD2UA	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_APPL_W	DRLTD2UA	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_AP_DIST_H	DRLTD2DP	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_AP_DIST_W	DRLTD2DP	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_DIST_D	DRLTD2DU	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_DIST_H	DRLTD2DA	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_DIST_W	DRLTD2DU	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_TRAN_D	DRLTD2UT	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_TRAN_H	DRLTD2BA	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_USER_TRAN_W	DRLTD2UT	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		DB2_US_TRAN_SHAR_H	DRLTD2TS	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580	
		Tablespace	DRLSDB00-16	DRLSDBNN	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580

DB2 objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2 (continued)	Update	DB2ACCUMAC	DRLTD2PL	UK43526/PK74556
		DB2APPL_101_H	DRLTD2A	
		DB2APPL_101_W	DRLTD2A	
		DB2DBST_100_1	DRLTD2D	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2PACK_101_D	DRLTD2PU	UK43526/PK74556
		DB2PACK_101_H	DRLTD2PU	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580 UK43526/PK74556 UK45212/PK81485
		DB2PACK_101_H1	DRLTD2PU	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580 UK43526/PK74556 UK45212/PK81485 UK43526/PK74556
		DB2PACK_101_W	DRLTD2PU	
		DB2POOL_100_1_T131	DRLTD2BP	
		DB2POOL_100_1_T31	DRLTD2BP	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2SYSDS_100_0_T	DRLTD2DS	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2SYSP_102_DDF	DRLTD2SP	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2SYSP_102_SP	DRLTD2SP	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2SYSP_102_SPR_91	DRLTD2SP	
		DB2SYST_100_0	DRLTD2S	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2TRAN_101_D	DRLTD2T	
		DB2TRAN_101_H	DRLTD2UT	
		DB2TRAN_101_W	DRLTD2T	
		DB2UAPPL_101_H	DRLTD2UA	
		DB2UAPPL_101_W	DRLTD2UA	
		DB2UTRAN_101_D	DRLTD2UT	
		DB2UTRAN_101_H	DRLTD2UT	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2UTRAN_101_H_B31	DRLTD2UT	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2UTRAN_101_H_B81	DRLTD2UT	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2UTRAN_101_W	DRLTD2UT	
		DB2UTR_DS_101_H	DRLTD2DU	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_BPATTR_SHR	DRLTD2BS	UK36492/PK61580

DB2 objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2 (continued)	Update (continued)	DB2_BP_SHARING	DRLTD2BS	UK36493/PK61580 UK36494/PK61580 UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_LOCK_SHARING	DRLTD2SH	UK34299/PK58831 UK34303/PK58831
		DB2_UT_GBP101_DS_H	DRLTD2TS	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		DB2_UT_LCK101_DS_H	DRLTD2TS	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		END_USER_81	DRLTD2SP	

DFRMM objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DFRMM	Report		DRLORMMA	

DFSMS objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DFSMS	Purge	DFSMS_LAST_RUN	DRLUDFLR	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
	Record	DCOLLECT_DA	DRLRDCDA	
	Report		DRLORMMA	
	Table	DFSMS_DATASET_D DFSMS_DATASET_M	DRLTDFDA DRLTDFDA	
	Update	DFSMS_DATASET_D DFSMS_DATASET_M	DRLTDFDA DRLTDFDA	

Distributed Systems Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Distributed Performance feature	Record		DRLAIX DRLHP11 DRLLINUX DRLSOLAR	
UNIX Accounting	Record	XACCT_COMMAND XWTMP_INFO	DRLRXACO DRLRXMTP	
	Report	XACCT07	DRLOXACC	UK34007/PK57882 UK34016/PK57882 UK34017/PK57882 UK34018/PK57882 UK34019/PK57882 UK34020/PK57882 UK34021/PK57882
	Table	XACCT_COMMAND_D XACCT_COMMAND_M	DRLTXACO DRLTXACO	
	Update	XACCT_CONNECT_D	DRLTXACT	
UNIX Performance	Insert	XPERF_PS_INFOUNX_D XPERF_VM_INFOUNX_D	DRLIXUNX DRLIXUNX	
	Record	XDTMP_INFO XHARD_CONF XNET_PS XNET_VM XPERF_CPU XPERF_PS XPERF_VM XSOFT_CONF XWTMP_INFO	DRLRXDTM DRLRXCNF DRLRNETP DRLRNETP DRLRXPCP DRLRXPRF DRLRXPRF DRLRXCNF DRLRXMTP	
	Table	XDTMP_INFOR XPERF_PS_INFO_D XPERF_VM_INFO_D XWTMP_INFOR	DRLTXDTM DRLTXPRF DRLTXPRF DRLTXMTP	
	Update	XDISK_INFOR_D XDTMP_INFOR_D XPERF_PS_INFOUNX_D XPERF_PS_INFO_D XPERF_VM_INFOUNX_D XPERF_VM_INFO_D	DRLTXDSK DRLTXDTM DRLTXPRF DRLTXPRF DRLTXPRF DRLTXPRF	

Domino objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Domino	Report		DRLODOM	

IMS feature objects modified by migration from 1.7

IMS feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
IMS CSQ	Log	CSQ_V810_COLLECT	DRLLS81C	
	Lookup Table	IMS_AVAIL_RESOURCE	DRLTCSQA	
	Record	CSQ_V710_R2 CSQ_V710_R2_LIGHT CSQ_V810_R2 CSQ_V810_R2_LIGHT CSQ_V910_2950 CSQ_V910_R2 CSQ_V910_R2_LIGHT	DRLRS71C DRLRS71C DRLRS81C DRLRS81C DRLRS910 DRLRS91C DRLRS91C	UK45113/PK81532 UK45113/PK81532 UK45113/PK81532 UK45113/PK81532
	Report	CSQA03 CSQA04	DRLOCSQC DRLOCSQC	
	System tables	DRLICSQ	DRLICSQ	
	Table	IMS_CHKPT_IOSAM_T IMS_CHKPT_STATS_T IMS_CHKPT_VSAM_T IMS_HALDB_OLR_D IMS_HALDB_OLR_H IMS_HALDB_OLR_T IMS_HALDB_OLR_W IMS_SYSTEM_TRAN_D IMS_SYSTEM_TRAN_H IMS_TRAN_D IMS_TRAN_H IMS_TRAN_W	DRLTIMSS DRLTIMSS DRLTIMSS DRLTCSQO DRLTCSQO DRLTCSQO DRLTCSQO DRLTCSQO DRLTCSQR DRLTCSQR DRLTCSQR DRLTCSQR DRLTCSQR	
	Tablespace	DRLSIA10 DRLSIA11 DRLSIA12 DRLSIA13 DRLSIA14	DRLSIA02 DRLSIA02 DRLSIA02 DRLSIA02 DRLSIACM DRLSIA02	

OS/400 feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
OS/400 Accounting	Record		DRL52400 DRL5240V	
	Table	OS400_ACCT_JOB_D OS400_ACCT_JOB_M	DRLT4AJO DRLT4AJO	
	Update	OS400_ACCT_JOB_D OS400_ACCT_JOB_M	DRLT4AJO DRLT4AJO	
OS/400 Performance	Record	OS400_PM_DISK_52 OS400_PM_POOL OS400_PM_SYS	DRLR4PDS DRLR4PPO DRLR4PSY	
	Table	OS400_PM_DISK_D OS400_PM_DISK_H OS400_PM_SYS_D OS400_PM_SYS_H	DRLT4PDS DRLT4PDS DRLT4PSY DRLT4PSY	
	Update	OS400_PM_DISK_H OS400_PM_SYS_D OS400_PM_SYS_H	DRLT4PDS DRLT4PSY DRLT4PSY	

Internet connection Secure Server objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Internet connection Secure Server	Record	INT_103_01	DRLRS103	UK35834/PK63715
		INT_103_02	DRLRS103	UK35838/PK63715 UK35834/PK63715 UK35838/PK63715
	Report		DRLOINTE	
	Table	INTCON_CONF	DRLTINTE	UK35834/PK63715
		INTCON_PERFT_D	DRLTINTE	UK35838/PK63715
		INTCON_PERF_D	DRLTINTE	UK35834/PK63715
		INTCON_PERF_H	DRLTINTE	UK35838/PK63715
Update	INTCON_PERF_M	DRLTINTE	UK35834/PK63715	
	INTCON_PERFX_D	DRLTINTE	UK35838/PK63715	

Network objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Network NCP Utilization	Update	NW_NCP_UTIL_H	DRLTNCP	
Network NPM Transit Time	Report	NWNT08	DRLONT	UK34007/PK57882 UK34016/PK57882 UK34017/PK57882 UK34018/PK57882 UK34019/PK57882 UK34020/PK57882 UK34021/PK57882
		NWNT10	DRLONT	UK34007/PK57882 UK34016/PK57882 UK34017/PK57882 UK34018/PK57882 UK34019/PK57882 UK34020/PK57882 UK34021/PK57882
		NWNT12	DRLONT	UK34007/PK57882 UK34016/PK57882 UK34017/PK57882 UK34018/PK57882 UK34019/PK57882 UK34020/PK57882 UK34021/PK57882
		NWNT14	DRLONT	UK34007/PK57882 UK34016/PK57882 UK34017/PK57882 UK34018/PK57882 UK34019/PK57882 UK34020/PK57882 UK34021/PK57882

Resource Accounting objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Resource Accounting for z/OS	Purge	RAFADDRLOG	DRLTSTC	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		RAFJOBLOG	DRLTBAT	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		RAFSESLOG	DRLTTSO	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435

Resource Accounting objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Resource Accounting for z/OS (continued)	Table	RAFBATCH	DRLTBAT	UK41984/PK75140 UK41987/PK75140 UK41988/PK75140
		RAFJOBLOG	DRLTBAT	UK41984/PK75140 UK41987/PK75140 UK41988/PK75140
	Update	RAFCICS_UP1	DRLUCICS	UK44303/PK75435 UK44307/PK75435
		RAFDB2_UP	DRLUDB2	UK36492/PK61580 UK36493/PK61580 UK36494/PK61580
		RAFJOB_SMF30	DRLUBAT	UK41984/PK75140 UK41987/PK75140 UK41988/PK75140

Sample objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Sample	Record	SMF_016	DRLRSO16	

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
None	Record	SMF_022 SMF_023 SMF_084_10 SMF_088 SMF_099	DRLRS022 DRLRS023 DRLRS084 DRLRS088 DRLRS099	
Accounting	Record definition	SMF_064	DRLRS064	
	Table definition	MVSAC_JOBADDR1_D MVSAC_JOBADDR1_H MVSAC_JOBADDR1_M MVSAC_JOBADDR1_T RAFDB2	DRLTJAC1 DRLTJAC1 DRLTJAC1 DRLTJAC1 DRLDB2	
Accounting (continued)	Update definition	Column Comment RAFADDR_SMF30 RAFCICS_UP RAFCICS_UP1 RAFDB2_UP RAFSES_SMF30	DRLTCICS DRLTSTC DRLTSTO DRLUSTC DRLUCICS DRLUCICS DRLDB2 DRLUSTO	

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2	Record	SMF_100_0 SMF_101 SMF_101_1 SMF_102	DRLRS100 DRLRS101 DRLRS101 DRLRS102	
	Table	DB2_APPLICATION_H DB2_APPLICATION_W DB2_APPL_DIST_H DB2_APPL_DIST_W DB2_TRANSACTION_D DB2_TRANSACTION_W DB2_TRAN_DIST_D DB2_TRAN_DIST_W DB2_USER_APPL_H DB2_USER_APPL_W DB2_USER_AP_DIST_H DB2_USER_AP_DIST_W DB2_USER_DIST_D DB2_USER_DIST_H DB2_USER_DIST_W DB2_USER_TRAN_D DB2_USER_TRAN_H DB2_USER_TRAN_W	DRLTD2A DRLTD2A DRLTD2DA DRLTD2DA DRLTD2T DRLTD2T DRLTD2DT DRLTD2DT DRLTD2UA DRLTD2UA DRLTD2DP DRLTD2DP DRLTD2DU DRLTD2BA DRLTD2DU DRLTD2UT DRLTD2BA DRLTD2UT	

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2 (continued)	Reports	DB201	DRLODB24	
		DB202	DRLODB24	
		DB203	DRLODB24	
		DB204	DRLODB24	
		DB205	DRLODB24	
		DB206	DRLODB24	
		DB207	DRLODB22	
		DB208	DRLODB22	
		DB209	DRLODB22	
		DB210	DRLODB22	
		DB211	DRLODB22	
		DB212	DRLODB24	
		DB213	DRLODB24	
		DB214	DRLODB24	
		DB215	DRLODB23	
		DB216	DRLODB23	
		DB217	DRLODB22	
		DB218	DRLODB22	
		DB219	DRLODB23	
		DB220	DRLODB21	
		DB221	DRLODB25	
		DB222	DRLODB25	
		DB223	DRLODB26	
		DB224	DRLODB26	
		DB225	DRLODB26	
		DB226	DRLODB26	
		DB227	DRLODB24	
		DB228	DRLODB24	
		DB229	DRLODB24	
		DB230	DRLODB24	
		DB231	DRLODB24	
		DB232	DRLODB24	
		DB233	DRLODB26	
DB234	DRLODB24			
DB235	DRLODB24			
DB236	DRLODB24			
DB241	DRLODB24			
DB242	DRLODB24			
DB2 (continued)	Update	DB2APPL_101_H	DRLTD2A	
		DB2APPL_101_W	DRLTD2A	
		DB2TRAN_101_D	DRLTD2T	
		DB2TRAN_101_W	DRLTD2T	
		DB2UAPPL_101_H	DRLTD2UA	
		DB2UAPPL_101_W	DRLTD2UA	
		DB2UTRAN_101_H_B31	DRLTD2UT	
DB2UTRAN_101_W	DRLTD2UT			
MQSeries	Record	MQS_115_1	DRLRS115	
		MQS_115_2	DRLRS115	
		MQS_116_1	DRLRS116	
		MQS_116_2	DRLRS116	
	Report		DRLOMQS	

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MQSeries (continued)	Table	MQS_ACCNT_CICS_D	DRLTMQAC	UK40850/PK71389
		MQS_ACCNT_CICS_M	DRLTMQAC	UK40854/PK71389
		MQS_ACCNT_CICS_T	DRLTMQAC	UK40850/PK71389
		MQS_ACCNT_D	DRLTMQAC	UK40854/PK71389
		MQS_ACCNT_IMS_D	DRLTMQAC	UK40850/PK71389
		MQS_ACCNT_IMS_M	DRLTMQAC	UK40854/PK71389
		MQS_ACCNT_IMS_T	DRLTMQAC	UK40850/PK71389
		MQS_ACCNT_M	DRLTMQAC	UK40854/PK71389
		MQS_ACCNT_QUEUE_D	DRLTMQA1	UK40850/PK71389
		MQS_ACCNT_QUEUE_M	DRLTMQA1	UK40854/PK71389
		MQS_ACCNT_QUEUE_T	DRLTMQA1	UK40850/PK71389
		MQS_ACCNT_T	DRLTMQAC	UK40854/PK71389
		MQS_ACCNT_TASK_D	DRLTMQA1	UK40850/PK71389
		MQS_ACCNT_TASK_M	DRLTMQA1	UK40854/PK71389
		MQS_ACCNT_TASK_T	DRLTMQA1	UK40850/PK71389
		MQS_BUFFER_D	DRLTMQST	UK40854/PK71389
		MQS_BUFFER_M	DRLTMQST	UK40850/PK71389
		MQS_BUFFER_T	DRLTMQST	UK40854/PK71389
		MQS_COUPL_FAC_D	DRLTMQS2	UK40850/PK71389
		MQS_COUPL_FAC_M	DRLTMQS2	UK40854/PK71389
		MQS_COUPL_FAC_T	DRLTMQS2	UK40850/PK71389
		MQS_DATA_D	DRLTMQST	UK40854/PK71389
		MQS_DATA_M	DRLTMQST	UK40850/PK71389
		MQS_DATA_T	DRLTMQST	UK40854/PK71389
		MQS_DB2_D	DRLTMQS2	UK40850/PK71389
		MQS_DB2_M	DRLTMQS2	UK40854/PK71389
		MQS_DB2_T	DRLTMQS2	UK40850/PK71389
		MQS_LOCK_D	DRLTMQS2	UK40854/PK71389

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MQSeries (continued)	Table (continued)	MQS_LOCK_M	DRLTMQS2	UK40854/PK71389 UK40850/PK71389
		MQS_LOCK_T	DRLTMQS2	UK40854/PK71389 UK40850/PK71389
		MQS_LOGMGR_D	DRLTMQSY	UK40854/PK71389 UK40850/PK71389
		MQS_LOGMGR_M	DRLTMQSY	UK40854/PK71389 UK40850/PK71389
		MQS_LOGMGR_T	DRLTMQSY	UK40854/PK71389 UK40850/PK71389
		MQS_MSG_D	DRLTMQST	UK40854/PK71389 UK40850/PK71389
		MQS_MSG_M	DRLTMQST	UK40854/PK71389 UK40850/PK71389
		MQS_MSG_T	DRLTMQST	UK40854/PK71389 UK40850/PK71389
		MQS_STORAGE_D	DRLTMQSY	UK40854/PK71389 UK40850/PK71389
		MQS_STORAGE_M	DRLTMQSY	UK40854/PK71389 UK40850/PK71389
		MQS_STORAGE_T	DRLTMQSY	UK40854/PK71389 UK40850/PK71389
		Update	MQS_ACCNT_QUEUE1_T	DRLTMQA1
	MQS_ACCNT_QUEUE2_T		DRLTMQA1	
	MQS_ACCNT_QUEUE_D		DRLTMQA1	
	MQS_ACCNT_QUEUE_M		DRLTMQA1	
	MQS_ACCNT_QUEUE_T		DRLTMQA1	
	MQS_ACCNT_TASK_D		DRLTMQA1	
	MQS_ACCNT_TASK_M		DRLTMQA1	
	MQS_ACCNT_TASK_T		DRLTMQA1	
	MQS_DB2_D	DRLTMQS2		
MQS_DB2_M	DRLTMQS2			
MQS_DB2_T	DRLTMQS2			
RACF	Lookup table	RACF_EVENT_CODE RACF_OMVS_AUDCODE	DRLTRAEV DRLTRAOA	
	Record	SMF_081	DRLRS081	
	Table	RACF_COMMAND_T RACF_RESOURCE_T	DRLTRACO DRLTRARE	
	Update	RACFCOMMAND_80 RACFRESOURCE_80	DRLTRACO DRLTRARE	

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
TCP/IP for z/OS	Record	SMF_119_1	DRLRS119	UK40887/PK73176
		SMF_119_10	DRLRS119	
		SMF_119_2	DRLRS119	
		SMF_119_20	DRLRS119	
		SMF_119_21	DRLRS119	
		SMF_119_22	DRLRS119	
		SMF_119_23	DRLRS119	
		SMF_119_3	DRLRS119	
		SMF_119_5	DRLRS119	
		SMF_119_6	DRLRS119	
		SMF_119_7	DRLRS119	
		SMF_119_70	DRLRS119	
		SMF_119_72	DRLRS119	
	SMF_119_73	DRLRS119	UK40307/PK71337	
		SMF_119_74	DRLRS119	UK40310/PK71337
		SMF_119_75_80	DRLRS119	UK40307/PK71337
		SMF_119_8	DRLRS119	UK40310/PK71337
	Report		DRLRS119	UK40887/PK73176
	Report		DRLTCP	
z/OS Availability	Record	SMF_030	DRLRS030	
	Report		DRLOJAC DRLOMVSA	
	Update	AVAIL_30_T	DRLUMVAV	
z/OS Interval Job/Step Accounting	Purge	MVSAC_JOBSTEP_T	DRLTJSTE	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
	Record	SMF_014	DRLRS014	UK40307/PK71337
		SMF_015	DRLRS015	UK40310/PK71337
		SMF_030 SMF_064	DRLRS030 DRLRS064	UK40307/PK71337 UK40310/PK71337
Report		DRLOJAC		

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Interval Job/Step Accounting (continued)	Table	MVSAC_JOBADDR1_D	DRLTJAC1	UK32508/PK56167 UK43083/PK77990
		MVSAC_JOBADDR1_H	DRLTJAC1	UK32508/PK56167 UK43083/PK77990
		MVSAC_JOBADDR1_M	DRLTJAC1	UK32508/PK56167 UK43083/PK77990
		MVSAC_JOBADDR1_T	DRLTJAC1	UK32508/PK56167 UK32738/PK57226 UK33791/PK60443 UK34325/PK60825 UK34328/PK60825 UK41984/PK75140 UK41987/PK75140 UK41988/PK75140 UK43083/PK77990 UK43303/PK77986 UK43306/PK77986
		MVSAC_JOBADDR_D	DRLTJAC2	UK35809/PK63447 UK35811/PK63447
		MVSAC_JOBADDR_H	DRLTJAC2	UK35809/PK63447 UK35811/PK63447
		MVSAC_JOBADDR_M	DRLTJAC2	UK35809/PK63447 UK35811/PK63447
		MVSAC_JOBADDR_T	DRLTJAC2	UK35809/PK63447 UK35811/PK63447
		MVSAC_JOBSTEP_T	DRLTJSTE	UK32738/PK57226 UK33791/PK60443
	Update	Column Comment MVSACJOB_14_T	DRLUJSTE DRLUJAC2	UK35809/PK63447 UK35811/PK63447
		MVSACJOB_15_T	DRLUJAC2	UK35809/PK63447 UK35811/PK63447
		MVSACJOB_1_D_M MVSACJOB_1_H_D MVSACJOB_1_T_H MVSACJOB_30_5_T	DRLUJAC1 DRLUJAC1 DRLUJAC1 DRLUJAC1	UK32738/PK57226 UK33791/PK60443 UK41984/PK75140 UK41987/PK75140 UK41988/PK75140
		MVSACJOB_30_T5	DRLUJAC1	UK41984/PK75140 UK41987/PK75140 UK41988/PK75140
		MVSACJOB_64_T	DRLUJAC2	UK35809/PK63447 UK35811/PK63447
		MVSACSTP_30_4_E_T MVSACSTP_30_4_T	DRLUJSTE DRLUJSTE	UK41981/PK75856 UK32738/PK57226 UK33791/PK60443 UK41981/PK75856

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Interval Job/Step Accounting (continued)	View	MVSAC_JOBADDR1_TV	DRLTJACV	UK32508/PK56167 UK32738/PK57226 UK33791/PK60443 UK41984/PK75140 UK41987/PK75140 UK41988/PK75140 UK43083/PK77990
		MVSAC_JOBADDR_TV	DRLTJACV	UK32508/PK56167 UK32738/PK57226 UK33791/PK60443 UK43083/PK77990
		MVSAC_JOBSTEP_TV	DRLTJSTV	UK32738/PK57226 UK33791/PK60443

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Performance Management (MVSPM)	Record	SMF_030	DRLRS030	
		SMF_030_2_3_x	DRLRS030	
		SMF_030_OMVS_X	DRLRS030	
		SMF_030_X	DRLRS030	
		SMF_033	DRLRS033	
		SMF_042_15	DRLRSY42	UK40307/PK71337 UK40310/PK71337
		SMF_042_16	DRLRSY42	UK40307/PK71337 UK40310/PK71337
		SMF_042_17	DRLRSY42	
		SMF_042_18	DRLRSY42	
		SMF_042_19	DRLRSY42	
		SMF_042_4	DRLRS042	UK40307/PK71337 UK40310/PK71337
		SMF_062	DRLRS062	
		SMF_064	DRLRS064	
		SMF_070	DRLTMPAS	
		SMF_070_2	DRLTMPAS	
		SMF_070_2_X	DRLTMPAS	
		SMF_070_X	DRLTMPAS	
		SMF_071	DRLRS071	
		SMF_072_1	DRLRS072	
		SMF_072_2	DRLRSX72	
		SMF_073	DRLRS073	UK40307/PK71337 UK40310/PK71337
		SMF_074_1	DRLRS074	UK40307/PK71337 UK40310/PK71337
		SMF_074_2	DRLRS074	
		SMF_074_3	DRLRSX74	
		SMF_074_4	DRLRSX74	
		SMF_074_5	DRLRSX74	
		SMF_074_6	DRLRSX74	
		SMF_074_7	DRLRSX74	
		SMF_074_8	DRLRSX74	
		SMF_075	DRLRS075	
		SMF_076	DRLRS076	
		SMF_077	DRLRS077	
		SMF_078_1	DRLRS078	UK40307/PK71337 UK40310/PK71337
		SMF_078_2	DRLRS078	UK40307/PK71337 UK40310/PK71337
SMF_078_2_X	DRLRS078	UK40307/PK71337 UK40310/PK71337		
SMF_078_3	DRLRS078	UK40307/PK71337 UK40310/PK71337		
SMF_079	DRLRS079	UK40307/PK71337 UK40310/PK71337		
SMF_092	DRLRS092			

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Performance Management (MVSPM) (continued)	Report	MVSPM02	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM03	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM04	DRLOMP5	UK32508/PK56167 UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM05	DRLOMP7	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM06	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM07	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM08	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM09	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM0A	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM10	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM11	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM116	DRLOMP4	UK40479/PK72580 UK40480/PK72580 UK40481/PK72580
		MVSPM117	DRLOMP4	UK40479/PK72580 UK40480/PK72580 UK40481/PK72580
		MVSPM12	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM14	DRLOMP8	UK39222/PK69395 UK39223/PK69395 UK39224/PK69395
		MVSPM15	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM16	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
MVSPM17	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127		

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Performance Management (MVSPM) (continued)	Report (continued)	MVSPM18	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM20	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM21	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM22	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM23	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM24	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM26	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM27	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM28	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM29	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM30	DRLOMP4	UK31723/PK53524 UK31724/PK53524 UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM31	DRLOMP4	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM32	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM33	DRLOMP5	UK31723/PK53524 UK31724/PK53524 UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM34	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM37	DRLOMP2	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM38	DRLOMPA	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Performance Management (MVSPM) (continued)	Report (continued)	MVSPM39	DRLOMP7	UK35799/PK62892 UK32728/PK54127 UK32731/PK54127
		MVSPM40	DRLOMP7	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM41	DRLOMP7	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM42	DRLOMP7	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM43	DRLOMP7	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM44	DRLOMP4	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM45	DRLOMP7	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM46	DRLOMP8	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM47	DRLOMP8	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM48	DRLOMP8	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM49	DRLOMP8	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM50	DRLOMP8	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM51	DRLOMP8	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM52	DRLOMP4	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM53	DRLOMP7	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM54	DRLOMP7	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM55	DRLOMP4	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPM56	DRLOMP2	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Performance Management (MVSPM) (continued)	Report (continued)	MVSPM57	DRLOMP2	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM58	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM59	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM60	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM61	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM64	DRLOMP9	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM65	DRLOMP9	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM66	DRLOMP9	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM67	DRLOMP9	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM71	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM72	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM73	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM74	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM75	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM76	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM78	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM79	DRLOMP5	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM80	DRLOMP7	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM81	DRLOMP7	UK32728/PK54127

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Performance Management (MVSPM) (continued)	Report (continued)	MVSPM82	DRLOMP7	UK32731/PK54127 UK32732/PK54127
		MVSPM83	DRLOMP7	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM84	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM85	DRLOMP8	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM90	DRLOMP3	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM91	DRLOMP3	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM92	DRLOMP3	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM93	DRLOMP3	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM94	DRLOMP3	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM95	DRLOMP3	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM96	DRLOMP3	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM97	DRLOMP3	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM98	DRLOMP7	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPM99	DRLOMPA	UK32728/PK54127 UK32731/PK54127 UK32732/PK54127
		MVSPMM1	DRLOMP4	UK35799/PK62892 UK32728/PK54127 UK32731/PK54127
		MVSPMM2	DRLOMP4	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPMM3	DRLOMP4	UK32732/PK54127 UK32728/PK54127 UK32731/PK54127
		MVSPMZ2	DRLOMP7	UK32732/PK54127 UK32728/PK54127

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Performance Management (MVSPM) (continued)	Update	MVSPM_APPC1_H	DRLTMPPP	
		MVSPM_APPL_H	DRLTMPAP	
		MVSPM_APPL_H5	DRLTMPAP	
		MVSPM_CACHE_ESS_H1	DRLTMPCE	
		MVSPM_CF_LINK1_H	DRLTMPCL	UK41493/PK73675
		MVSPM_CF_LINK_H	DRLTMPCL	UK41493/PK73675
		MVSPM_CF_PROC_H	DRLTMPCF	UK41493/PK73675
		MVSPM_CF_REQUEST_H	DRLTMPCR	UK41493/PK73675
		MVSPM_CF_STRUCT_H	DRLTMPCR	UK41493/PK73675
			DRLTMPFF	
		MVSPM_CF_TO_CF_H	DRLTMPFF	UK41493/PK73675
		MVSPM_CHANNEL_H	DRLTMPCH	UK35799/PK62892
				UK41493/PK73675
		MVSPM_CLUSTER_H	DRLTMPLC	UK41493/PK73675
		MVSPM_CPU_H	DRLTMPCU	UK40479/PK72580
				UK40480/PK72580
				UK40481/PK72580
				UK41493/PK73675
		MVSPM_CPU_H2	DRLTMPCU	UK41493/PK73675
		MVSPM_CRYPTO_CCF	DRLTMPCC	UK41493/PK73675
		MVSPM_CRYPTO_CCF_H	DRLTMPCC	
		MVSPM_CRYPTO_PCICA	DRLTMPCC	UK41493/PK73675
		MVSPM_CRYPTO_PCICC	DRLTMPCC	UK41493/PK73675
		MVSPM_DATASET_H2	DRLTMPDS	
		MVSPM_DEVICE_AP_H	DRLTMPDA	
		MVSPM_DEVICE_AP_H5	DRLTMPDA	
		MVSPM_DEVICE_AP_HG	DRLTMPDA	
		MVSPM_DEVICE_H	DRLTMPDE	UK41493/PK73675
		MVSPM_DEVICE_H2	DRLTMPDE	UK41493/PK73675
		MVSPM_ENQUEUE_H	DRLTMPEQ	UK41493/PK73675
		MVSPM_ESSLINK_H	DRLTMPES	UK41493/PK73675
		MVSPM_ESS_EXTENT_H	DRLTMPEE	UK41493/PK73675
		MVSPM_ESS_RANK_H	DRLTMPER	UK41493/PK73675
		MVSPM_FICON_H	DRLTMPFC	UK41493/PK73675
		MVSPM_GOAL_ACT_H	DRLTMPGA	UK41493/PK73675
		MVSPM_HS_CHAN_H	DRLTMPCH	UK41493/PK73675
		MVSPM_LCU_IO_H	DRLTMPCI	UK41493/PK73675
		MVSPM_LCU_IO_H1	DRLTMPCI	UK41493/PK73675
		MVSPM_LCU_IO_H2	DRLTMPCI	UK41493/PK73675
		MVSPM_LPAR_D	DRLTMVLP	
		MVSPM_LPAR_D2	DRLTMVLP	
		MVSPM_LPAR_H	DRLTMPLP	UK32508/PK56167
				UK41493/PK73675
		MVSPM_LPAR_H2	DRLTMPLP	UK41493/PK73675
		MVSPM_LPAR_M	DRLTMVLP	
		MVSPM_LPAR_ZOS_D	DRLTMVLP	
		MVSPM_LPAR_ZOS_H	DRLTMPLP	UK32508/PK56167
		UK41493/PK73675		
MVSPM_LPAR_ZOS_W	DRLTMPLP	UK32508/PK56167		
MVSPM_LPAR_ZOS_WLM	DRLTMPLP	UK41493/PK73675		
MVSPM_LPAR_ZOS_WLM_D	DRLTMVLP			
MVSPM_OMVS_BUF_H	DRLTMPHF	UK41493/PK73675		
MVSPM_OMVS_GHFS_H	DRLTMPHF	UK41493/PK73675		
MVSPM_OMVS_HFS_H	DRLTMPHF	UK41493/PK73675		
MVSPM_OMVS_KERN_H	DRLTMPOK	UK41493/PK73675		

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
z/OS Performance Management (MVSPM) (continued)	Update (continued)	MVSPM_PAGE_DS_H	DRLTMPPD	UK41493/PK73675	
		MVSPM_PAGING_H	DRLTMPPG	UK39222/PK69395	
				UK39223/PK69395	
				UK39224/PK69395	
				UK41493/PK73675	
			MVSPM_PAGING_H2	DRLTMPPG	UK41493/PK73675
			MVSPM_STORAGE_H	DRLTMPST	UK41493/PK73675
			MVSPM_SWAP_H	DRLTMPSW	UK41493/PK73675
			MVSPM_SYSTEM_H	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H2	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H2A	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H2P	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H3	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H3A	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H3P	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H4	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H5	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H5A	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_H5P	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_HX	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_HXA	DRLTMPAS	UK41493/PK73675
			MVSPM_SYSTEM_HXP	DRLTMPAS	UK41493/PK73675
			MVSPM_VS_CSASQA_H	DRLTMPV1	UK41493/PK73675
			MVSPM_VS_PRIVATE_H	DRLTMPV2	UK41493/PK73675
			MVSPM_VS_SUBPOOL_H	DRLTMPV3	UK41493/PK73675
			MVSPM_WLM_SERVED_H	DRLTMPWX	UK41493/PK73675
			MVSPM_WLM_STATE_H1	DRLTMPWS	UK41493/PK73675
			MVSPM_WLM_STATE_H2	DRLTMPWS	UK41493/PK73675
			MVSPM_WORKLOAD2_H	DRLTMPW2	UK32508/PK56167
					UK41493/PK73675
			MVSPM_WORKLOAD_H	DRLTMPWO	UK41493/PK73675
			MVSPM_XCF_MEMBER_H	DRLTMPXM	UK41493/PK73675
	MVSPM_XCF_PATH_H	DRLTMPXP	UK41493/PK73675		
	MVSPM_XCF_SYS_H	DRLTMPXS	UK41493/PK73675		

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS Performance Management (MVSPM) (continued)	View	MVSPM_APPL_HV	DRLTMPAP	UK32508/PK56167 UK43083/PK77990
		MVSPM_CACHE_ESS_HV	DRLTMPCE	
		MVSPM_CACHE_HV	DRLTMPCA	
		MVSPM_CF_PROC_HV	DRLTMPCF	
		MVSPM_CF_REQ_HV	DRLTMPCR	
		MVSPM_CF_TO_CF_HV	DRLTMPFF	
		MVSPM_CHANNEL_HV	DRLTMPCH	UK35799/PK62892
		MVSPM_CPU_HV	DRLTMPCU	UK40479/PK72580 UK40480/PK72580 UK40481/PK72580
		MVSPM_CRYPTOC_CCF_HV	DRLTMPCC	
		MVSPM_DATASET_HV	DRLTMPDS	
		MVSPM_DEVICE_AP_HV	DRLTMPDA	
		MVSPM_ENQUEUE_HV	DRLTMPEQ	
		MVSPM_ESSLINK_HV	DRLTMPES	
		MVSPM_ESS_RANK_HV	DRLTMPER	
		MVSPM_LPAR_HV	DRLTMLPL	UK32508/PK56167
		MVSPM_PAGE_DS_HV	DRLTMPPD	
		MVSPM_PAGING_HV	DRLTMPPG	UK39222/PK69395 UK39223/PK69395 UK39224/PK69395
		MVSPM_RAID_RANK_HV	DRLTMPRR	
		MVSPM_STORAGE_HV	DRLTMPST	
		MVSPM_STORCLASS_HV	DRLTMPSC	
MVSPM_SWAP_HV	DRLTMPSW			
MVSPM_SYSTEM_HV	DRLTMPAS	UK32508/PK56167		
MVSPM_WORKLOAD2_HV	DRLTMPW2	UK32508/PK56167		
MVSPM_WORKLOADX_HV	DRLTMPW2	UK32508/PK56167		
MVSPM_XCF_PATH_HV	DRLTMPXP			
MVSPM_XCF_PATH_HV	DRLTMPXS			
z/OS System (MVS)	Form	DRLFMV5A	DRLTMVSA (Japanese only)	
	JCL	Migration job	DRLJMVOM	
	Panel	Dialog Parameters	DRLDASYQ (Japanese only)	
	Purge	MVS_TAPEMOUNTS_D MVS_TAPEMOUNTS_M MVS_TAPEMOUNTS_T	DRLTMVSA DRLTMVSA DRLTMVSA	

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS System (MVS) (continued)	Record	MVS21	DRLOMVS6	
		MVS22	DRLOMVS6	
		MVS24	DRLOMVS6	
		MVSM1	DRLOMVS6	
		MVSM2	DRLOMVS6	
		MVSM3	DRLOMVS6	
		SMF_025	DRLRS025	
		SMF_030	DRLRS030	UK40307/PK71337
				UK40310/PK71337
		SMF_030_2_3_X	DRLRS030	UK40307/PK71337
				UK40310/PK71337
		SMF_030_4_X	DRLRS030	UK40307/PK71337
				UK40310/PK71337
		SMF_030_OMVS_X	DRLRS030	UK40307/PK71337
				UK40310/PK71337
		SMF_030_X	DRLRS030	UK40307/PK71337
				UK40310/PK71337
		SMF_032	DRLRS032	
		SMF_070	DRLRS070	
		SMF_070_2	DRLRS070	
SMF_070_2_X	DRLRS070			
SMF_070_X	DRLRS070			
SMF_071	DRLRS071	UK40307/PK71337		
		UK40310/PK71337		
SMF_072_3	DRLRS072	UK40307/PK71337		
		UK40310/PK71337		
SMF_085	DRLRS085	UK42942/PK76579		
		UK40307/PK71337		
		UK40310/PK71337		
SMF_085_32	DRLRS085			
SMF_085_33	DRLRS085			
SMF_085_34	DRLRS085			
SMF_085_35	DRLRS085			
SMF_088	DRLRS088			
SMF_090	DRLRS090			
SMF_094	DRLRS094	UK44857/PK81142		
Report	MVSPM04	DRLOMP5	UK32508/PK56167	
Report definition	MVS56A MVS98	DRLOMVS DRLOMVS5		
Report Query	DRLFMV5A	DRLTMVSA (Japanese only)		
	MVS21	DRLQMV21		
	MVS22	DRLQMV22		
	MVS24	DRLQMV24		
	MVS25	DRLQMV25		
	MVS26	DRLQMV26		
	MVS28	DRLQMV28		
	MVS29	DRLQMV29		
	MVSM1	DRLQMVM1		
	MVSM2	DRLQMVM2		
	MVSM3	DRLQMVM3		
Sample	DRLFPROF	DRLFPROF		

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
z/OS System (MVS) (continued)	Table	CICS_FIELD	DRLTCIFI		
		MVS_ACCNT23_PGM_T	DRLTMVAP	UK32508/PK56167	
		MVS_ACCNT_PGM_T	DRLTMVAP	UK32508/PK56167	
		MVS_ADDRDISTR_D	DRLTMVAD	UK32508/PK56167	
				UK43083/PK77990	
		MVS_ADDRDISTR_H	DRLTMVAD	UK32508/PK56167	
				UK43083/PK77990	
		MVS_ADDRDISTR_M	DRLTMVAD	UK32508/PK56167	
				UK43083/PK77990	
		MVS_ADDRSPACE_D	DRLTMVAS	UK32508/PK56167	
				UK43083/PK77990	
		MVS_ADDRSPACE_M	DRLTMVAS	UK32508/PK56167	
				UK43083/PK77990	
		MVS_ADDRSPACE_T	DRLTMVAS	UK32508/PK56167	
				UK41984/PK75140	
				UK41987/PK75140	
				UK41988/PK75140	
				UK43083/PK77990	
				DRLTMVSA	
		MVS_LPAR_D	DRLTMVLP		
		MVS_LPAR_M	DRLTMVLP		
		MVS_MIPS_T	DRLTMIPS		
		MVS_OAM_OSREQ_T	DRLTMVOQ		
		MVS_PROGRAM_M	DRLTMVPR	UK32508/PK56167	
				UK43730/PK78103	
		MVS_SYSTEM_D	DRLTMVSY	UK32508/PK56167	
		MVS_SYSTEM_H	DRLTMVSY	UK32508/PK56167	
		MVS_SYSTEM_M	DRLTMVSY	UK32508/PK56167	
		MVS_TAPEMOUNTS_D	DRLTMIPS		
		MVS_TAPEMOUNTS_M	DRLTMIPS		
		MVS_TAPEMOUNTS_T	DRLTMIPS		
		MVS_TAPE_M	DRLTMVTA		
MVS_VTS_D	DRLTMVTS				
MVS_VTS_H	DRLTMVTS				
MVS_VTS_M	DRLTMVTS				
MVS_WORKLOAD2_D	DRLTMVW2	UK32508/PK56167			
MVS_WORKLOAD2_H	DRLTMVW2	UK32508/PK56167			
MVS_WORKLOAD2_M	DRLTMVW2	UK32508/PK56167			

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Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
z/OS System (MVS) (continued)	Update	MVSADDR_25_T	DRLTMVSA	UK41984/PK75140 UK41987/PK75140 UK41988/PK75140	
		MVSADDR_26_T	DRLTMVSA		
		MVSADDR_30_4_T	DRLTMVSA		
		MVSADDR_30_5_A_T	DRLTMVSA		
		MVSADDR_30_5_E_T	DRLTMVSA		
		MVSADDR_30_5_T	DRLTMVAS		
		MVSADDR_6_T	DRLTMVSA	UK43730/PK78103	
		MVSADDR_D_M	DRLTMVSA		
		MVSADDR_T_D	DRLTMVAS		
		MVSDISTR_30_4_T	DRLTMVAS		
		MVSDISTR_30_5_T	DRLTMVAS		
		MVSDISTR_30_E_H	DRLTMVAD		
		MVSDISTR_30_E_H5	DRLTMVAD		
		MVSDISTR_30_H	DRLTMVAD		
		MVSDISTR_30_H5	DRLTMVAD		
		MVSDISTR_D_M	DRLTMVAD		
		MVSDISTR_H_D	DRLTMVAD		
		MVSPGM_30_4_M	DRLTMVPR		
		MVSPM_LPAR_D	DRLTMVLP		
		MVSPM_LPAR_D2	DRLTMVLP		
		MVSPM_LPAR_M	DRLTMVLP		
		MVSSYS_70_CPU_H	DRLTMVSY		UK41493/PK73675
		MVSSYS_70_CPU_H2	DRLTMVSY		UK41493/PK73675
		MVSSYS_70_CPU_HX	DRLTMPSY		
		MVSSYS_70_H	DRLTMVSY		UK41493/PK73675
		MVSSYS_71_H	DRLTMVSY	UK41493/PK73675	
		MVSSYS_72_3_PGP_H	DRLTMVSY	UK41493/PK73675	
		MVSSYS_72_PGP_H	DRLTMVSY	UK41493/PK73675	
		MVSTAPEM_D_M	DRLTMVSA		
		MVSTAPEM_T_D	DRLTMVSA		
		MVSTAPE_21_M	DRLTMVTA	UK35525/PK61871	
		MVSVTS_094_H	DRLTMVTS		
		MVSVTS_D_M	DRLTMVTS		
		MVSVTS_H_D	DRLTMVTS		
		MVSWORK_72_PGP_H	DRLTMVWO	UK41493/PK73675	
		MVS_ACCNT23_PGM_TA	DRLTMVAP		
		MVS_GOAL_ACT_D	DRLTMVGA	UK41493/PK73675	
		MVS_LPAR_D	DRLTMVLP	UK32508/PK56167	
		MVS_LPAR_D2	DRLTMVLP	UK41493/PK73675	
		MVS_LPAR_M	DRLTMVLP	UK32508/PK56167	
		MVS_LPAR_ZOS_D	DRLTMVLP	UK32508/PK56167	
		MVS_LPAR_ZOS_WLM	DRLTMVLP	UK41493/PK73675	
		MVS_LPAR_ZOS_WLM_D	DRLTMVLP	UK32508/PK56167	
		MVS_OAM_OSREQ_T	DRLTMVOQ		
		MVS_OMVSADDR_T	DRLTMVAO		
		MVS_OMVSADIS_T	DRLTMVDO		
		MVS_WORKLOAD2_D	DRLTMVW2	UK32508/PK56167	
MVS_WORKLOAD2_H	DRLTMVW2	UK32508/PK56167			
			UK41493/PK73675		

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
z/OS System (MVS) (continued)	Update (continued)	MVS_WORKLOAD2_M System tables	DRLTMVW2 DRLISP	UK32508/PK56167
	View	MVS_LPAR_DV	DRLTMVLP	UK32508/PK56167
		MVS_LPAR_MV	DRLTMVLP	UK32508/PK56167
		MVS_WORKLOAD2_DV	DRLVMVWA	UK32508/PK56167
WebSphere Interval	Record	MVS_WORKLOAD2_DV2	DRLTMVWA	UK32508/PK56167
		MVS_WORKLOAD2_DV4	DRLTMVWB	
		MVS_WORKLOAD2_HV	DRLVMVWA	
		MVS_WORKLOAD2_HV2	DRLTMVWA	
	Table	MVS_WORKLOAD2_HV4	DRLTMVWB	UK32508/PK56167
		MVS_WORKLOAD2_MV	DRLVMVWA	
		MVS_WORKLOAD2_MV2	DRLTMVWA	
		MVS_WORKLOAD2_MV4	DRLVMVWB	
Update	SMF_120_6	DRLRSJWI		
	SMF_120_6_X	DRLRSJWI		
	SMF_120_8	DRLRSJWI		
Note: For a mapping between the record field names before and after WebSphere version 5.1, refer to <i>System Performance Feature Reference Volume II</i> .	WebSphere Activity	SMF_120_8_X	DRLRSJWI	
		WAS_INT_BEANMTHD_H	DRLTJ2CI	
		WAS_INT_HEAP_D	DRLTWISV	
		WAS_INT_HEAP_H	DRLTWISV	
		WAS_INT_HTTPSESS_D	DRLTWISV	
		WAS_INT_HTTPSESS_H	DRLTWISV	
		WAS_INT_HTTPSESS_M	DRLTWISV	
		WAS_INT_J2EECNT_D	DRLTWISV	
		WAS_INT_J2EECNT_H	DRLTWISV	
		WAS_INT_J2EECNT_W	DRLTWISV	
		WAS_INT_SERVER_D	DRLTWISV	
		WAS_INT_SERVER_H	DRLTWISV	
		WAS_INT_SERVER_M	DRLTWISV	
		WAS_INT_SERVLETS_H	DRLTWISV	
		WAS_INT_WEBAPPL_D	DRLTWISV	
WAS_INT_WEBAPPL_H	DRLTWISV			
WebSphere Interval	Record	SMF_120_1	DRLRS121	
		SMF_120_3	DRLRS123	
		SMF_120_5	DRLRSJWA	
		SMF_120_5_X	DRLRSJWA	
		SMF_120_7	DRLRSJWA	
		SMF_120_7_X	DRLRSJWA	

System Performance feature objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
WebSphere Activity (continued)	Table	WAS_ACT_BEANMTHD WAS_ACT_HTTPSESS WAS_ACT_J2EECNT WAS_ACT_SERVER WAS_ACT_SERVLETS WAS_ACT_SERV_HEAP WAS_ACT_USR_D WAS_ACT_USR_H WAS_ACT_USR_M WAS_ACT_WEBAPPL	DRLTJCAM DRLTWAHS DRLTJCAM DRLTWASE DRLTWASW DRLTWASH DRLTWASU DRLTWASU DRLTWASU DRLTWASW	
	Update	WAS_ACT_BEANMTHD WAS_ACT_HTTPSESS WAS_ACT_J2EECNT WAS_ACT_SERVER WAS_ACT_SERVLETS WAS_ACT_SERV_HEAP WAS_ACT_USR_H WAS_ACT_WEBAPPL	DRLUJCAM DRLUWAHS DRLUJCAM DRLUWASE DRLUWASW DRLUWASH DRLUWASU DRLUWASW	
Note: For a mapping between the record field names before and after WebSphere version 5.1, refer to <i>System Performance Feature Reference Volume II</i> .				
z/VM Performance	Table	VMPRF_CONFIG_T VMPRF_DASD_D VMPRF_DASD_H VMPRF_DASD_M VMPRF_PROCESSOR_D VMPRF_PROCESSOR_H VMPRF_PROCESSOR_M VMPRF_SYSTEM_D VMPRF_SYSTEM_H VMPRF_SYSTEM_M VMPRF_USER_D VMPRF_USER_H VMPRF_USER_M	DRLTVM11 DRLTVM61 DRLTVM61 DRLTVM61 DRLTVM02 DRLTVM02 DRLTVM02 DRLTVM01 DRLTVM01 DRLTVM01 DRLTVM41 DRLTVM41 DRLTVM41	

Tivoli Storage Manager (ADSM) objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Tivoli Storage Manager (ADSM)	Report		DRLOADSM	

TWS for z/OS objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
TWS for z/OS	Report		DRLOOPC	

WebSphere Application Server objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
WebSphere Activity	Purge	WAS_ACT_BEANMTHD	DRLTJCAM	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		WAS_ACT_CLASS	DRLTWACO	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		WAS_ACT_CONTAIN	DRLTWACO	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		WAS_ACT_HTTPSESS	DRLTWAHS	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		WAS_ACT_J2EECNT	DRLTJCAM	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		WAS_ACT_METHOD	DRLTWACO	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		WAS_ACT_SERVER	DRLTWASE	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		WAS_ACT_SERVLETS	DRLTWASW	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		WAS_ACT_SERV_HEAP	DRLTWASH	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
		WAS_ACT_WEBAPPL	DRLTWASW	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435

WebSphere Application Server objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
WebSphere Activity (continued)	Purge (continued)	WAS_CONNECT_ACTID	DRLTWASV	UK43219/PK77717 UK43220/PK77717 UK43221/PK77717 UK43222/PK77717 UK44306/PK75435
	Record	SMF_120_1	DRLRS121	UK40427/PK71325 UK40430/PK71325
	Update	WAS_ACT_SERVER	DRLUWASE	UK40427/PK71325 UK40430/PK71325
WebSphere Interval	Record	SMF_120_3	DRLRS123	UK40427/PK71325 UK40430/PK71325
	Table	WAS_INT_SERVER_D	DRLTWISV	UK40427/PK71325 UK40430/PK71325
		WAS_INT_SERVER_H	DRLTWISV	UK40427/PK71325 UK40430/PK71325
		WAS_INT_SERVER_M	DRLTWISV	UK40427/PK71325 UK40430/PK71325
	Update	WAS_INT_SERVER_D	DRLUWISV	UK40427/PK71325 UK40430/PK71325
WAS_INT_SERVER_H		DRLUWISV	UK40427/PK71325 UK40430/PK71325	
WAS_INT_SERVER_M		DRLUWISV	UK40427/PK71325 UK40430/PK71325	
View	WAS_INT_SERVER_DV	DRLVWISV	UK40427/PK71325 UK40430/PK71325	
	WAS_INT_SERVER_HV	DRLVWISV	UK40427/PK71325 UK40430/PK71325	
	WAS_INT_SERVER_MV	DRLVWISV	UK40427/PK71325 UK40430/PK71325	

Appendix D. Component objects modified by migration from 1.7.1

This appendix contains information about the component objects that have been modified by IBM for migration from product Version 1.7.1 to Version 1.8.1.

Component objects belonging to these Tivoli Decision Support for z/OS features are affected:

- “Base Feature objects modified by migration from 1.7.1” on page 416.
- “AS/400 objects modified by migration from 1.7.1” on page 416.
- “CICS Partitioning feature objects modified by migration from 1.7.1” on page 416.
- “CICS Performance feature objects modified by migration from 1.7.1” on page 423.
- “DB2 objects modified by migration from 1.7.1” on page 430.
- “DFSMS objects modified by migration from 1.7.1” on page 435.
- “DFRMM objects modified by migration from 1.7.1” on page 435.
- “Distributed Performance feature objects modified by migration from 1.7.1” on page 436.
- “IMS objects modified by migration from 1.7.1” on page 436.
- “Domino objects modified by migration from 1.7.1” on page 437.
- “Internet connection Secure Server objects modified by migration from 1.7.1” on page 438.
- “Network objects modified by migration from 1.7.1” on page 438.
- “Resource Accounting objects modified by migration from 1.7.1” on page 439.
- “Sample objects modified by migration from 1.7” on page 440.
- “TCP/IP for z/OS objects modified by migration from 1.7.1” on page 440.
- “Tivoli Storage Manager (ADSM) objects modified by migration from 1.7.1” on page 441.
- “TWS for z/OS objects modified by migration from 1.7.1” on page 441.
- “WebSphere MQ (MQSeries) objects modified by migration from 1.7.1” on page 441.
- “z/OS System (MVS) objects modified by migration from 1.7.1” on page 443.
- “z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1” on page 454.
- “WebSphere Application Server objects modified by migration from 1.7.1” on page 469.

As from Tivoli Decision Support for z/OS Version 1.8.1, the APAR/PTFs which modified the objects are also listed. Please note that this information is only available for objects which were modified since the GA of Tivoli Decision Support for z/OS Version 1.8.0. Objects modified prior to this, do not have any information listed in the APAR/PTFs column.

Base Feature objects modified by migration from 1.7.1

Base Feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
(Not applicable)	Record	SMF_018	DRLRS018	UK40308/PK71337
		SMF_019	DRLRS019	UK40311/PK71337
		SMF_022	DRLRS022	UK40308/PK71337
		SMF_023	DRLRS023	UK40311/PK71337
		SMF_082_2	DRLRS082	UK40308/PK71337
		SMF_089	DRLRS089	UK40311/PK71337
		SMF_099	DRLRS099	UK35361/PK55987
		SMF_114_1	DRLRS114	UK35363/PK55987
				UK35364/PK55987
				UK35365/PK55987

AS/400 objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
AS/400			DRL52400	
			DRL5240V	

CICS Partitioning feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned	Purge	CICS_RMI_PERF_DP	DRLTC8P7	
		CICS_RMI_PERF_HP	DRLTC8P7	UK43223/PK77717
		CICS_RMI_PERF_TP	DRLTC8P7	UK43224/PK77717
				UK43225/PK77717
				UK43226/PK77717
				UK44308/PK75435

CICS Partitioning feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned (continued)	Record	SMF_110_1	DRLRS110	UK44304/PK75435
		SMF_110_1_C	DRLRS110	UK44309/PK75435
		SMF_110_1_CO	DRLRS110	UK44304/PK75435
		SMF_110_E	DRLRS110	UK44309/PK75435
		SMF_CICS_T	DRLRS110	UK44304/PK75435
	Table	CICSWEB_A_BASIC_HP	DRLTC4P1	
		CICSWEB_A_BASIC_WP	DRLTC4P1	
		CICSWEB_A_USR_HP	DRLTC4P2	
		CICSWEB_A_USR_WP	DRLTC4P2	
		CICSWEB_TRANSAC_DP	DRLTC1P1	
		CICSWEB_TRANSAC_WP	DRLTC1P1	
		CICSWEB_TRAN_US_DP	DRLTC1P0	
		CICSWEB_TRAN_US_HP	DRLTC1P2	
		CICSWEB_TRAN_US_WP	DRLTC1P2	
		CICS_A_BASIC_HP	DRLTC4P1	
		CICS_A_BASIC_WP	DRLTC4P1	
		CICS_A_USR_HP	DRLTC4P2	
		CICS_A_USR_WP	DRLTC4P2	
		CICS_RMI_PERF_DP	DRLTC8P7	
		CICS_RMI_PERF_HP	DRLTC8P7	
CICS_RMI_PERF_TP	DRLTC8P7			
CICS_TRANSACTION_DP	DRLTC1P1			
CICS_TRANSACTION_WP	DRLTC1P1			
CICS_TRAN_USR_DP	DRLTC1P2			
CICS_TRAN_USR_HP	DRLTC1P0			
CICS_TRAN_USR_WP	DRLTC1P2			

CICS Partitioning feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned (continued)	Update	CICSBTS_TRAN_US_HP	DRLTC1P0	UK44304/PK75435
		CICSCHN_TRAN_US_HP	DRLTC1P0	UK44309/PK75435
		CICSDOC_TRAN_US_HP	DRLTC1P0	UK44304/PK75435
		CICSWEB_A_BASIC_HP	DRLTC4P1	UK44309/PK75435
		CICSWEB_A_BASIC_WP	DRLTC4P1	UK44304/PK75435
		CICSWEB_A_USR_HP	DRLTC4P2	
		CICSWEB_A_USR_WP	DRLTC4P2	
		CICSWEB_TRANSAC_DP	DRLTC1P1	
		CICSWEB_TRANSAC_WP	DRLTC1P1	
		CICSWEB_TRAN_US_DP	DRLTC1P0	
		CICSWEB_TRAN_US_HP	DRLTC1P0	UK44304/PK75435
				UK44309/PK75435
			DRLTC1P2	
		CICSWEB_TRAN_US_WP	DRLTC1P2	
		CICS_A_BASIC_HP	DRLTC4P1	
		CICS_A_BASIC_WP	DRLTC4P1	
		CICS_A_USR_HP	DRLTC4P2	
		CICS_A_USR_WP	DRLTC4P2	
		CICS_BEAN_REQ_HP	DRLTP15J	UK44304/PK75435
				UK44309/PK75435
		CICS_DLI_USR_HP	DRLTC3P0	UK44304/PK75435
				UK44309/PK75435
		CICS_RMI_PERF_D	DRLTC8P7	
		CICS_RMI_PERF_D1	DRLTC8P7	UK44304/PK75435
				UK44309/PK75435
		CICS_RMI_PERF_DP1	DRLTC8P7	UK44304/PK75435
				UK44309/PK75435
		CICS_RMI_PERF_H	DRLTC8P7	
		CICS_RMI_PERF_H1	DRLTC8P7	UK44304/PK75435
				UK44309/PK75435
		CICS_RMI_PERF_HP1	DRLTC8P7	UK44304/PK75435
				UK44309/PK75435
		CICS_RMI_PERF_T1	DRLTC8P7	UK44304/PK75435
		UK44309/PK75435		
CICS_RMI_PERF_T2	DRLTC8P7	UK44304/PK75435		
		UK44309/PK75435		
CICS_RMI_PERF_TP1	DRLTC8P7	UK44304/PK75435		
		UK44309/PK75435		
CICS_RMI_PERF_TP2	DRLTC8P7	UK44304/PK75435		
		UK44309/PK75435		
CICS_TRANSACTION_DP	DRLTC1P1			
CICS_TRANSACTION_WP	DRLTC1P1			
CICS_TRAN_USR_DP	DRLTC1P2			
CICS_TRAN_USR_H2	DRLTC1P0	UK44304/PK75435		
		UK44309/PK75435		
CICS_TRAN_USR_HP	DRLTC1P0			
CICS_TRAN_USR_WP	DRLTC1P2			
CICS_T_TRAN_TP1	DRLTC9P1	UK44304/PK75435		
		UK44309/PK75435		
CICS_X_ABEND_TRANT	DRLUCIEM			

CICS Partitioning feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics Partitioned	Migrate job	DRLJC076 DRLJC76P	DRLJC076 DRLJC76p	
	Purge	CICS_DOCT_RES_DP CICS_DOCT_RES_HP CICS_MVSTCB_DP CICS_MVSTCB_HP CICS_MVSTCB_RES_DP CICS_MVSTCB_RES_HP CICS_SMD_SUBP_DP CICS_SMD_SUBP_HP CICS_TCPIP_CONN_DP CICS_TCPIP_CONN_HP CICS_WMQ_CONN_DP CICS_WMQ_CONN_HP	DRLTC8P6 DRLTC8P6 DRLTC8P2 DRLTC8P2 DRLTC8P3 DRLTC8P3 DRLTC8P1 DRLTC8P1 DRLTC8P5 DRLTC8P5 DRLTC8P4 DRLTC8P4	
	Record	SMF_110_2_05 SMF_110_2_105 SMF_110_2_106 SMF_110_2_109 SMF_110_2_112 SMF_110_2_117 SMF_110_2_118 SMF_110_2_14 SMF_110_2_25 SMF_110_2_30 SMF_110_2_64 SMF_110_2_65 SMF_110_2_67 SMF_110_2_74 SMF_110_2_76 SMF_110_2_81 SMF_110_4_126 SMF_110_5_124	DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102 DRLR1102	

CICS Partitioning feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics Partitioned (continued)	Table	CICS_DOCT_RES_DP	DRLTC8P6	
		CICS_DOCT_RES_HP	DRLTC8P6	
		CICS_MVSTCB_DP	DRLTC8P2	
		CICS_MVSTCB_HP	DRLTC8P2	
		CICS_MVSTCB_RES_DP	DRLTC8P3	
		CICS_MVSTCB_RES_HP	DRLTC8P3	
		CICS_SMD_SUBP_DP	DRLTC8P1	
		CICS_SMD_SUBP_HP	DRLTC8P1	
		CICS_S_CFDT_SER_DP	DRLTS3P8	
		CICS_S_CFDT_SER_TP	DRLTS3P8	
		CICS_S_DISPATCH_DP	DRLTS1P6	
		CICS_S_DISPATCH_TP	DRLTS1P6	
		CICS_S_FILE_DP	DRLTS1P1	
		CICS_S_FILE_TP	DRLTS1P1	
		CICS_S_INTERCOM_DP	DRLTS2P2	
		CICS_S_INTERCOM_TP	DRLTS2P2	
		CICS_S_JVM_PROF_DP	DRLTS1P6	
		CICS_S_JVM_PROF_TP	DRLTS1P6	
		CICS_S_MONITOR_DP	DRLTS2P5	
		CICS_S_MONITOR_TP	DRLTS2P5	
		CICS_S_NC_LSTRU_DP	DRLTS4P3	
		CICS_S_NC_LSTRU_TP	DRLTS4P3	
		CICS_S_PIPELINE_TP	DRLTS4P8	
		CICS_S_PROGRAM_DP	DRLTS2P6	
		CICS_S_PROGRAM_TP	DRLTS2P6	
		CICS_S_STOR_DSA_DP	DRLTS2P8	
		CICS_S_STOR_DSA_TP	DRLTS2P8	
		CICS_S_TCPIP_DP	DRLTS3P7	
		CICS_S_TCPIP_TP	DRLTS3P7	
		CICS_TCPIP_CONN_DP	DRLTC8P5	
		CICS_TCPIP_CONN_HP	DRLTC8P5	
		CICS_WMQ_CONN_DP	DRLTC8P4	
		CICS_WMQ_CONN_HP	DRLTC8P4	
			Tablespace	DRLSCS76
	DRLSPS0A	DRLSPS01		
	DRLSPS0B	DRLSPS01		
	DRLSPS0C	DRLSPS01		
	DRLSPS0D	DRLSPS01		
	DRLSPS0E	DRLSPS01		
	DRLSPS0F	DRLSPS01		
	DRLSPS0G	DRLSPS01		
	DRLSPS0H	DRLSPS01		
	DRLSPS0I	DRLSPS01		
	DRLSPS0J	DRLSPS01		
	DRLSPS0K	DRLSPS01		
	DRLSPS0L	DRLSPS01		

CICS Partitioning feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics Partitioned (continued)	Update	CICS_DOCT_RES_DP	DRLTC8P6	
		CICS_DOCT_RES_HP	DRLTC8P6	
		CICS_MVSTCB_DP	DRLTC8P2	
		CICS_MVSTCB_HP	DRLTC8P2	
		CICS_MVSTCB_RES_DP	DRLTC8P3	
		CICS_MVSTCB_RES_HP	DRLTC8P3	
		CICS_SMD_SUBP_DP	DRLTC8P1	
		CICS_SMD_SUBP_HP	DRLTC8P1	
		CICS_S_CFDI_SER_DP	DRLTS3P8	
		CICS_S_CFDI_SER_TP	DRLTS3P8	
		CICS_S_ENQUE_MGR_TP	DRLTS3P4	UK44304/PK75435 UK44309/PK75435
		CICS_S_ENQU_MGR2_TP	DRLTS3P4	UK44304/PK75435 UK44309/PK75435
		CICS_S_FILE_DP	DRLTS1P1	
		CICS_S_FILE_TP	DRLTS1P1	
		CICS_S_INTERCOM_DP	DRLTS2P2	
		CICS_S_INTER_52P	DRLTS2P2	
		CICS_S_JVMPOOL_TP	DRLTS1P6	
		CICS_S_JVM_PROF_DP	DRLTS1P6	
		CICS_S_JVM_PROF_TP	DRLTS1P6	
		CICS_S_MONITOR_DP	DRLTS2P5	
		CICS_S_MONITOR_TP	DRLTS2P5	
		CICS_S_NC_LSTRU_DP	DRLTS4P3	
		CICS_S_NC_LSTRU_TP	DRLTS4P3	
		CICS_S_PIPELINE_TP	DRLTS4P8	
		CICS_S_PROGRAM_DP	DRLTS2P6	
		CICS_S_PROGRAM_TP	DRLTS2P6	UK44304/PK75435 UK44309/PK75435
		CICS_S_PROGRA_T23P	DRLTS2P6	UK44304/PK75435 UK44309/PK75435
		CICS_S_PROGRA_TDSP	DRLTS2P6	UK44304/PK75435 UK44309/PK75435
		CICS_S_PROGRA_TGLP	DRLTS2P6	UK44304/PK75435 UK44309/PK75435
		CICS_S_RECO_MGR_TP	DRLTS3P4	UK44304/PK75435 UK44309/PK75435
		CICS_S_STOR_D14_TP	DRLTS2P8	
		CICS_S_STOR_DSA_DP	DRLTS2P8	
		CICS_S_STOR_G14_TP	DRLTS2P8	
		CICS_S_TCPIP_TP	DRLTS3P7	
		CICS_S_TERMINAL_AP	DRLTS1P3	UK44304/PK75435 UK44309/PK75435
		CICS_S_TERMINAL_TP	DRLTS1P3	UK44304/PK75435 UK44309/PK75435
		CICS_S_TRAN_TP	DRLTS3P2	UK44304/PK75435 UK44309/PK75435
		CICS_S_TRAN_T_11P	DRLTS3P2	UK44304/PK75435 UK44309/PK75435
		CICS_TCPIP_CONN_DP	DRLTC8P5	
		CICS_TCPIP_CONN_HP	DRLTC8P5	
		CICS_WMQ_CONN_DP	DRLTC8P4	
		CICS_WMQ_CONN_HP	DRLTC8P4	
		CICS_X_STATS_50	DRLUCIES	
		CICS_X_STATS_51	DRLUCIES	
		CICS_X_STOR_49	DRLUCIES	

CICS Partitioning feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Transaction and Unit-of-Work Analysis Partitioning	Purge	CICSBTS_T_TRAN_TP	DRLTC9P1	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
		CICSCHN_T_TRAN_TP	DRLTC9P1	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
		CICSDOC_T_TRAN_TP	DRLTC9P1	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
		CICSWEB_T_TRAN_TP	DRLTC9P1	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
		CICS_T_TRAN_TP	DRLTC9P1	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
	Record	SMF_110_1	DRLRS110	UK44304/PK75435 UK44309/PK75435
		SMF_110_1_C	DRLRS110	UK44304/PK75435 UK44309/PK75435
		SMF_110_1_CO	DRLRS110	UK44304/PK75435 UK44309/PK75435
		SMF_110_E	DRLRS110	UK44304/PK75435
		SMF_CICS_T	DRLRS110	UK44304/PK75435 UK44309/PK75435
	Table	CICSWEB_T_TRAN_TP	DRLTC9P1	
		CICS_T_TRAN_TP	DRLTC9P1	
	Update	CICSBTS_T_TRAN_TP	DRLTC9P1	UK44304/PK75435 UK44309/PK75435
		CICSCHN_T_TRAN_TP	DRLTC9P1	UK44304/PK75435 UK44309/PK75435
		CICSDOC_T_TRAN_TP	DRLTC9P1	UK44304/PK75435 UK44309/PK75435
		CICSWEB_T_TRAN_TP	DRLTC9P1	UK44304/PK75435 UK44309/PK75435
		CICS_T_TRAN_TP CICS_T_TRAN_TP1	DRLTC9P1 DRLTC9P1	

CICS Performance feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring	Purge	CICS_RMI_PERF_D CICS_RMI_PERF_H CICS_RMI_PERF_T	DRLTC850 DRLTC850 DRLTC850	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
	Record	SMF_110_1 SMF_110_1_C SMF_110_1_CO SMF_110_E SMF_CICS_T SMF_CICS_TR	DRLRS110 DRLRS110 DRLRS110 DRLRS110 DRLRS110 DRLR110T	UK44304/PK75435 UK44309/PK75435 UK44304/PK75435 UK44309/PK75435 UK44304/PK75435 UK44309/PK75435 UK44304/PK75435 UK44309/PK75435
	Table	CICSWEB_A_BASIC_H CICSWEB_A_BASIC_W CICSWEB_A_USR_H CICSWEB_A_USR_W CICSWEB_TRANSACT_D CICSWEB_TRANSACT_H CICSWEB_TRANSACT_W CICSWEB_TRAN_USR_D CICSWEB_TRAN_USR_H CICSWEB_TRAN_USR_W CICS_A_BASIC_H CICS_A_BASIC_W CICS_A_USR_H CICS_A_USR_W CICS_FIELD CICS_RMI_PERF_D CICS_RMI_PERF_H CICS_RMI_PERF_T CICS_TRANSACTION_D CICS_TRANSACTION_H CICS_TRANSACTION_W CICS_TRAN_USR_D CICS_TRAN_USR_H CICS_TRAN_USR_W	DRLTC401 DRLTC401 DRLTC402 DRLTC402 DRLTC101 DRLTC101 DRLTC101 DRLTC101 DRLTC102 DRLTCITR DRLTC102 DRLTC401 DRLTC401 DRLTC402 DRLTC402 DRLTCIFI DRLTC850 DRLTC850 DRLTC850 DRLTC101 DRLTC101 DRLTC101 DRLTC101 DRLTC102 DRLTCITR DRLTC102	

CICS Performance feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Update	CICSBTS_A_BASIC_H	DRLTC401	UK44304/PK75435
		CICSBTS_A_USR_H	DRLTC402	UK44309/PK75435
		CICSBTS_TRANSACT_H	DRLTC101	UK44304/PK75435
		CICSBTS_TRAN_USR_H	DRLTCITR	UK44309/PK75435
		CICSCHN_A_BASIC_H	DRLTC401	UK44304/PK75435
		CICSCHN_A_USR_H	DRLTC402	UK44309/PK75435
		CICSCHN_TRANSACT_H	DRLTC101	UK44304/PK75435
		CICSCHN_TRAN_USR_H	DRLTCITR	UK44309/PK75435
		CICSDOC_A_BASIC_H	DRLTC401	UK44304/PK75435
		CICSDOC_A_USR_H	DRLTC402	UK44309/PK75435
		CICSDOC_TRANSACT_H	DRLTC101	UK44304/PK75435
		CICSDOC_TRAN_USR_H	DRLTCITR	UK44309/PK75435
		CICSWEB_A_BASIC_H	DRLTC401	UK44304/PK75435
		CICSWEB_A_BASIC_W	DRLTC401	UK44304/PK75435
		CICSWEB_A_USR_H	DRLTC402	UK44309/PK75435
		CICSWEB_A_USR_W	DRLTC402	UK44309/PK75435
		CICSWEB_TRANSACT_D	DRLTCITR	UK44304/PK75435
		CICSWEB_TRANSACT_H	DRLTC101	UK44309/PK75435
		CICSWEB_TRANSACT_H1	DRLTCITR	UK44304/PK75435
		CICSWEB_TRANSACT_W	DRLTCITR	UK44309/PK75435
		CICSWEB_TRAN_USR_D	DRLTCITR	UK44304/PK75435
		CICSWEB_TRAN_USR_H	DRLTCITR	UK44309/PK75435
		CICSWEB_TRAN_USR_W	DRLTCITR	UK44304/PK75435
		CICS_A_BASIC_H	DRLTC401	UK44309/PK75435
		CICS_A_BASIC_H1	DRLTC401	UK44304/PK75435
		CICS_A_BASIC_W	DRLTC401	UK44309/PK75435
		CICS_A_DLI_H	DRLTC601	UK44304/PK75435
		CICS_A_DLI_USR_H	DRLTC602	UK44309/PK75435
		CICS_A_USR_H	DRLTC402	UK44304/PK75435
		CICS_A_USR_H1	DRLTC402	UK44309/PK75435
CICS_A_USR_W	DRLTC402	UK44304/PK75435		

CICS Performance feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Update (continued)	CICS_BEAN_REQ_H	DRLTC15J	UK44304/PK75435
		CICS_DLI_TRAN_H	DRLTC301	UK44309/PK75435
		CICS_DLI_USR_H	DRLTC300	UK44304/PK75435
		CICS_FILE_TRAN_H	DRLTC14T	UK44309/PK75435
		CICS_FILE_TRAN_HP	DRLTC14T	UK44309/PK75435
		CICS_QUEUE_TRAN_H	DRLTC14T	UK44304/PK75435
		CICS_QUEUE_TRAN_HP	DRLTC14T	UK44309/PK75435
		CICS_RMI_PERF_D	DRLTC850	UK44304/PK75435
		CICS_RMI_PERF_H	DRLTC850	UK44309/PK75435
		CICS_RMI_PERF_T1	DRLTC850	UK44304/PK75435
		CICS_RMI_PERF_T2	DRLTC850	UK44309/PK75435
		CICS_TRANSACTION_D	DRLTC101	
		CICS_TRANSACTION_H	DRLTC101	
		CICS_TRANSACTION_W	DRLTC101	
		CICS_TRANSACT_H1	DRLTC101	UK44304/PK75435
		CICS_TRAN_USR_H	DRLTCITR	UK44309/PK75435
		CICS_TRAN_USR_H1	DRLTCITR	UK44304/PK75435
CICS_TRAN_USR_W	DRLTCITR			
CICS_X_ABEND_TRANT	DRLUCIEM			
CICS Statistics	Migrate job	DRLJC076	DRLJC076	
	Purge	CICS_DOCT_RES_D	DRLTC849	
		CICS_DOCT_RES_H	DRLTC849	
		CICS_MVSTCB_D	DRLTC845	
		CICS_MVSTCB_H	DRLTC845	
		CICS_MVSTCB_RES_D	DRLTC846	
		CICS_MVSTCB_RES_H	DRLTC846	
		CICS_SMD_SUBP_D	DRLTC844	
		CICS_SMD_SUBP_H	DRLTC844	
		CICS_TCPIP_CONN_D	DRLTC848	
		CICS_TCPIP_CONN_H	DRLTC848	
		CICS_WMQ_CONN_D	DRLTC847	
		CICS_WMQ_CONN_H	DRLTC847	

CICS Performance feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics (continued)	Table	CICS_DOCT_RES_D	DRLTC849	
		CICS_DOCT_RES_H	DRLTC849	
		CICS_MVSTCB_D	DRLTC845	
		CICS_MVSTCB_H	DRLTC845	
		CICS_MVSTCB_RES_D	DRLTC846	
		CICS_MVSTCB_RES_H	DRLTC846	
		CICS_SMD_SUBP_D	DRLTC844	
		CICS_SMD_SUBP_H	DRLTC844	
		CICS_S_CFDI_SERV_D	DRLTC831	
		CICS_S_CFDI_SERV_T	DRLTC831	
		CICS_S_DISPATCH_D	DRLTC807	
		CICS_S_DISPATCH_T	DRLTC807	
		CICS_S_FILE_D	DRLTC810	
		CICS_S_FILE_T	DRLTC810	
		CICS_S_INTERCOM_D	DRLTC808	
		CICS_S_INTERCOM_T	DRLTC808	
		CICS_S_JVM_PROF_D	DRLTC807	
		CICS_S_JVM_PROF_T	DRLTC807	
		CICS_S_MONITOR_D	DRLTC821	
		CICS_S_MONITOR_T	DRLTC821	
		CICS_S_NC_LSTRUC_D	DRLTC835	
		CICS_S_NC_LSTRUC_T	DRLTC835	
		CICS_S_PIPELINE_T	DRLTC841	
		CICS_S_PROGRAM_D	DRLTC812	
		CICS_S_PROGRAM_T	DRLTC812	
		CICS_S_STOR_DSA_D	DRLTC814	
		CICS_S_STOR_DSA_T	DRLTC814	
		CICS_S_TCPIP_D	DRLTC830	
		CICS_S_TCPIP_T	DRLTC830	
		CICS_TCPIP_CONN_D	DRLTC848	
		CICS_TCPIP_CONN_H	DRLTC848	
		CICS_WMQ_CONN_D	DRLTC847	
		CICS_WMQ_CONN_H	DRLTC847	
	Tablespace	DRLSCS0A	DRLSCS00	
		DRLSCS0B	DRLSCS00	
		DRLSCS76	DRLSCS76	
		DRLSPS0C	DRLSCS00	
		DRLSPS0D	DRLSCS00	
		DRLSPS0E	DRLSCS00	
		DRLSPS0F	DRLSCS00	
		DRLSPS0G	DRLSCS00	
		DRLSPS0H	DRLSCS00	
		DRLSPS0I	DRLSCS00	
		DRLSPS0J	DRLSCS00	
		DRLSPS0K	DRLSCS00	
		DRLSPS0L	DRLSCS00	

CICS Performance feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics (continued)	Update	CICS_DOCT_RES_D	DRLTC849	
		CICS_DOCT_RES_H	DRLTC849	
		CICS_MVSTCB_D	DRLTC845	
		CICS_MVSTCB_H	DRLTC845	
		CICS_MVSTCB_HP	DRLTC845	
		CICS_MVSTCB_RES_D	DRLTC846	
		CICS_MVSTCB_RES_H	DRLTC846	
		CICS_SMD_SUBP_D	DRLTC844	
		CICS_SMD_SUBP_H	DRLTC844	
		CICS_S_CFDI_SERV_D	DRLTC831	
		CICS_S_CFDI_SERV_T	DRLTC831	
		CICS_S_ENQUE_MGR_T	DRLTC827	UK44304/PK75435 UK44309/PK75435
		CICS_S_ENQU_MGR2_T	DRLTC827	UK44304/PK75435 UK44309/PK75435
		CICS_S_FILE_D	DRLTC810	
		CICS_S_FILE_T	DRLTC810	
		CICS_S_INTERCOM_D	DRLTC808	
		CICS_S_INTER_52	DRLTC808	
		CICS_S_JVMPOOL_T	DRLTC807	
		CICS_S_JVM_PROF_D	DRLTC807	
		CICS_S_JVM_PROF_T	DRLTC807	
		CICS_S_MONITOR_D	DRLTC821	
		CICS_S_MONITOR_T	DRLTC821	
		CICS_S_NC_LSTRUC_D	DRLTC835	
		CICS_S_NC_LSTRUC_T	DRLTC835	
		CICS_S_PIPELINE_T	DRLTC841	
		CICS_S_PROGRAM_D	DRLTC812	
		CICS_S_PROGRAM_T	DRLTC812	UK44304/PK75435 UK44309/PK75435
		CICS_S_PROGRAM_T23	DRLTC812	UK44304/PK75435 UK44309/PK75435
		CICS_S_PROGRAM_TDS	DRLTC812	UK44304/PK75435 UK44309/PK75435
		CICS_S_PROGRAM_TGL	DRLTC812	UK44304/PK75435 UK44309/PK75435
		CICS_S_RECOV_MGR_T	DRLTC827	UK44304/PK75435 UK44309/PK75435
		CICS_S_STOR_D14_T	DRLTC814	
		CICS_S_STOR_D14_TP	DRLTC814	
		CICS_S_STOR_DSA_D	DRLTC814	
		CICS_S_STOR_G14_T	DRLTC814	
		CICS_S_TCPIP_D	DRLTC830	
		CICS_S_TCPIP_T	DRLTC830	
		CICS_S_TERMINAL_A	DRLTC802	UK44304/PK75435 UK44309/PK75435
		CICS_S_TERMINAL_T	DRLTC802	UK44304/PK75435 UK44309/PK75435
		CICS_S_TRAN_T	DRLTC803	UK44304/PK75435 UK44309/PK75435
CICS_S_TRAN_T_11	DRLTC803	UK44304/PK75435 UK44309/PK75435		

CICS Performance feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
CICS Statistics (continued)	Update (continued)	CICS_TCPIP_CONN_D CICS_TCPIP_CONN_H CICS_WMQ_CONN_D CICS_WMQ_CONN_H CICS_X_STATS_50 CICS_X_STATS_51 CICS_X_STOR_49	DRLTC848 DRLTC848 DRLTC847 DRLTC847 DRLUCIES DRLUCIES DRLUCIES		
CICS Transaction and Unit-of-Work Analysis	Purge	CICSBTS_T_TRAN_T	DRLTC901	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435	
		CICSCHN_T_TRAN_T	DRLTC901	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435	
		CICSDOC_T_TRAN_T	DRLTC901	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435	
		CICSWEB_T_TRAN_T	DRLTC901	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435	
			CICS_T_TRAN_T	DRLTC901	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
	Record		SMF_110_1	DRLRS110	UK44304/PK75435 UK44309/PK75435
			SMF_110_1_C	DRLRS110	UK44304/PK75435 UK44309/PK75435
			SMF_110_1_CO	DRLRS110	UK44304/PK75435 UK44309/PK75435
			SMF_110_E SMF_CICS_T	DRLRS110 DRLRS110	UK44304/PK75435 UK44309/PK75435
	Table		CICSWEB_T_TRAN_T	DRLTC901	
		CICS_T_TRAN_T	DRLTC901		
CICS Transaction and Unit-of-Work Analysis (continued)	Update	CICSBTS_T_TRAN_T	DRLTC901	UK44304/PK75435 UK44309/PK75435	
		CICSCHN_T_TRAN_T	DRLTC901	UK44304/PK75435 UK44309/PK75435	
		CICSDOC_T_TRAN_T	DRLTC901	UK44304/PK75435 UK44309/PK75435	
		CICSWEB_T_TRAN_T	DRLTC901	UK44304/PK75435 UK44309/PK75435	
		CICS_T_TRAN_T CICS_T_TRAN_T1	DRLTC901 DRLTC901	UK44304/PK75435 UK44309/PK75435	

DB2 objects modified by migration from 1.7.1

DB2 objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2	migr.jcl	DRLJDB06	DRLJDB06	
	Record	SMF_100_0	DRLRS100	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		SMF_100_1	DRLRS100	UK34300/PK58831 UK34304/PK58831 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		SMF_100_2	DRLRS100	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		SMF_100_3	DRLRS100	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		SMF_101	DRLRS101	UK32438/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		SMF_101_1	DRLRS101	UK39050/PK70295 UK32438/PK52681 UK39050/PK70295
		SMF_102	DRLRS102	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
			DRLRS101	UK39050/PK70295 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572

DB2 objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2 (continued)	Reports	DB201	DRLODB24	UK34008/PK57882 UK34022/PK57882 UK34023/PK57882 UK34024/PK57882 UK34025/PK57882 UK34026/PK57882 UK34027/PK57882
		DB202	DRLODB24	
		DB203	DRLODB24	
		DB204	DRLODB24	
		DB205	DRLODB24	
		DB206	DRLODB24	
		DB207	DRLODB22	
		DB208	DRLODB22	
		DB209	DRLODB22	
		DB210	DRLODB22	
		DB211	DRLODB22	
		DB212	DRLODB24	
		DB213	DRLODB24	
		DB214	DRLODB24	
		DB215	DRLODB23	
		DB216	DRLODB23	
		DB217	DRLODB22	
		DB218	DRLODB22	
		DB219	DRLODB23	
		DB220	DRLODB21	
		DB221	DRLODB25	
		DB222	DRLODB25	
		DB223	DRLODB26	
		DB224	DRLODB26	
		DB225	DRLODB26	
		DB226	DRLODB26	
		DB227	DRLODB24	
		DB228	DRLODB24	
		DB229	DRLODB24	
		DB230	DRLODB24	
		DB231	DRLODB24	
		DB232	DRLODB24	
		DB233	DRLODB26	
		DB234	DRLODB24	
		DB235	DRLODB24	
		DB236	DRLODB24	
		DB241	DRLODB24	
		DB242	DRLODB24	

DB2 objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2 (continued)	Table	DB2_ACCUMACC	DRLTD2PL	UK43527/PK74556
		DB2_APPLICATION_H	DRLTD2A	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_APPLICATION_W	DRLTD2A	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_APPL_DIST_H	DRLTD2DA	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_APPL_DIST_W	DRLTD2DA	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_BP_SHARING_T	DRLTD2BS	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_BUFFER_POOL_T	DRLTD2BP	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_DATABASE_T	DRLTD2D	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_LOCK_SHARING	DRLTD2SH	UK34300/PK58831 UK34304/PK58831
		DB2_PACKAGE_D	DRLTD2PU	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_PACKAGE_H	DRLTD2PK	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_PACKAGE_W	DRLTD2PU	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_SYSTEM_DIST_T	DRLTD2DS	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_SYSTEM_T	DRLTD2S	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_SYS_PARAMETER	DRLTD2SP	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_TRANSACTION_D	DRLTD2T	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572
		DB2_TRANSACTION_W	DRLTD2T	UK32436/PK52681

DB2 objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
DB2 (continued)	Table (continued)	DB2_TRAN_DIST_D	DRLTD2DT	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_TRAN_DIST_W	DRLTD2DT	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_APPL_H	DRLTD2UA	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_APPL_W	DRLTD2UA	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_AP_DIST_H	DRLTD2DP	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_AP_DIST_W	DRLTD2DP	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_DIST_D	DRLTD2DU	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_DIST_H	DRLTD2DA	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_DIST_W	DRLTD2DU	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_TRAN_D	DRLTD2UT	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_TRAN_H	DRLTD2BA	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_USER_TRAN_W	DRLTD2UT	UK32436/PK52681 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		DB2_US_TRAN_SHAR_H	DRLTD2TS	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572	
		Tablespace	DRLSDB00-16	DRLSDBNN	UK36423/PK61572 UK36424/PK61572 UK36425/PK61572

DB2 objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
DB2 (continued)	Update	DB2ACCUMAC	DRLTD2PL	UK43527/PK74556	
		DB2APPL_101_H	DRLTD2A	UK32436/PK52681	
		DB2APPL_101_W	DRLTD2A	UK32436/PK52681	
		DB2DBST_100_1	DRLTD2D	UK36423/PK61572	
					UK36424/PK61572
					UK36425/PK61572
		DB2PACK_101_D	DRLTD2PU	UK32436/PK52681	
		DB2PACK_101_H	DRLTD2PU	UK32436/PK52681	
				UK36423/PK61572	
				UK36424/PK61572	
				UK36425/PK61572	
				UK43527/PK74556	
				UK45213/PK81485	
		DB2PACK_101_H1	DRLTD2PU	UK32436/PK52681	
				UK36423/PK61572	
				UK36424/PK61572	
				UK36425/PK61572	
				UK43527/PK74556	
				UK45213/PK81485	
		DB2PACK_101_W	DRLTD2PU	UK32436/PK52681	
		DB2POOL_100_1_T31	DRLTD2BP	UK36423/PK61572	
				UK36424/PK61572	
				UK36425/PK61572	
		DB2SYSDS_100_0_T	DRLTD2DS	UK36423/PK61572	
				UK36424/PK61572	
				UK36425/PK61572	
		DB2SYSP_102_DDF	DRLTD2SP	UK36423/PK61572	
				UK36424/PK61572	
				UK36425/PK61572	
		DB2SYSP_102_SP	DRLTD2SP	UK36423/PK61572	
				UK36424/PK61572	
				UK36425/PK61572	
DB2SYSP_102_SPR_91	DRLTD2SP	UK36423/PK61572			
DB2SYST_100_0	DRLTD2S	UK36423/PK61572			
		UK36424/PK61572			
		UK36425/PK61572			
DB2TRAN_101_D	DRLTD2T	UK32436/PK52681			
DB2TRAN_101_H	DRLTD2UT				
DB2TRAN_101_W	DRLTD2T	UK32436/PK52681			
DB2UAPPL_101_H	DRLTD2UA	UK32436/PK52681			
DB2UAPPL_101_W	DRLTD2UA	UK32436/PK52681			
DB2UTRAN_101_D	DRLTD2UT				
DB2UTRAN_101_H	DRLTD2UT	UK36423/PK61572			
		UK36424/PK61572			
		UK36425/PK61572			
DB2UTRAN_101_H_B	DRLTD2UT	UK32436/PK52681			
DB2UTRAN_101_H_B31	DRLTD2UT	UK32438/PK52681			
		UK36423/PK61572			
		UK36424/PK61572			
		UK36425/PK61572			
DB2UTRAN_101_H_B81	DRLTD2UT	UK36423/PK61572			
		UK36424/PK61572			

Distributed Performance feature objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Distributed Performance feature			DRLAIX DRLHP11 DRLLINUX DRLSOLAR	
	Report	XACCT07	DRLOXACC	UK34008/PK57882 UK34022/PK57882 UK34023/PK57882 UK34024/PK57882 UK34025/PK57882 UK34026/PK57882 UK34027/PK57882
UNIX Performance	Insert	XPERF_PS_INFOUNX_D XPERF_VM_INFOUNX_D	DRLIXUNX DRLIXUNX	

IMS objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
IMS CSQ Collect	Log	CSQ_V810_COLLECT	DRLLS81C	
	Lookup Table	IMS_AVAIL_RESOURCE	DRLTCSQA	
	Record	CSQ_V710_R2 CSQ_V710_R2_LIGHT CSQ_V710_R2_LIGHT CSQ_V810_R2 CSQ_V810_R2_LIGHT CSQ_V910_2950 CSQ_V910_R2 CSQ_V910_R2_LIGHT	DRLRS71C DRLRS71C DRLRS71C DRLRS81C DRLRS81C DRLRS91O DRLRS91C DRLRS91C	
	Report	CSQA03 CSQA04	DRLOCSQC DRLOCSQC	
	System Tables	DRLICSQ	DRLICSQ	
	Table	IMS_HALDB_OLR_D IMS_HALDB_OLR_H IMS_HALDB_OLR_T IMS_HALDB_OLR_W IMS_SYSTEM_TRAN_D IMS_SYSTEM_TRAN_H IMS_TRAN_D IMS_TRAN_H IMS_TRAN_W	DRLTCSQO DRLTCSQO DRLTCSQO DRLTCSQO DRLTCSQY DRLTCSQY DRLTCSQR DRLTCSQR DRLTCSQR	
	Tablespace	DRLSIA10 DRLSIA11 DRLSIA12 DRLSIA13 DRLSIA14	DRLSIA02 DRLSIA02 DRLSIA02 DRLSIA02 DRLSIACM DRLSIA02	

IMS objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
IMS CSQ Collect (continued)	Update	CSQV710TRNQUEQ	DRLUI71Q	UK37769/PK62614 UK37773/PK62614
		CSQV810SYSTH	DRLUI81C	
		CSQV810SYSTLH	DRLUI81C	UK37769/PK62614 UK37773/PK62614
		CSQV810TRANH	DRLUI81C	UK37769/PK62614 UK37773/PK62614
		CSQV810TRANLH	DRLUI81C	UK37769/PK62614 UK37773/PK62614
		CSQV810TRNQUEQ	DRLUI81Q	UK37769/PK62614 UK37773/PK62614
		CSQV910OLRD	DRLUI91O	UK37769/PK62614 UK37773/PK62614
		CSQV910OLRH	DRLUI91O	
		CSQV910OLRT	DRLUI91O	
		CSQV910OLRW	DRLUI91O	
		CSQV910SYSTH	DRLUI91C	
		CSQV910SYSTLH	DRLUI91C	
		CSQV910TRANH	DRLUI91C	
		CSQV910TRANLH	DRLUI91C	UK37769/PK62614 UK37773/PK62614
		CSQV910TRNQUEQ	DRLUI91Q	UK37769/PK62614 UK37773/PK62614
		CSQVA10SYSTH	DRLUIA1Y	UK37769/PK62614 UK37773/PK62614
		CSQVA10SYSTH2	DRLUIA1S	UK37769/PK62614 UK37773/PK62614
		CSQVA10SYSTLH	DRLUIA1Y	UK37769/PK62614 UK37773/PK62614
		CSQVA10SYSTLH2	DRLUIA1S	UK37769/PK62614 UK37773/PK62614
		CSQVA10TRANH	DRLUIA1C	UK37769/PK62614 UK37773/PK62614
		CSQVA10TRANLH	DRLUIA1C	UK37769/PK62614 UK37773/PK62614
		CSQVA10TRNQUEQ	DRLUIA1Q	UK37769/PK62614 UK37773/PK62614
		CSQ_V710_R2	DRLRS71C	
		CSQ_V710_R2_LIGHT	DRLRS71C	
		CSQ_V810_R2	DRLRS81C	
		CSQ_V810_R2_LIGHT	DRLRS81C	
		CSQ_V910_R2	DRLRS91C	
CSQ_V910_R2_LIGHT	DRLRS91C			
IMS Collect	migr.jcl	DRLJMICV	DRLJMICV	
	Table	IMS_CHKPT_STATS_T	DRLTIMSS	

Domino objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Domino	Report		DRLODOM	

Domino objects modified by migration from 1.7.1

Internet connection Secure Server objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Internet connection Secure Server	Record	INT_103_01	DRLRS103	UK35835/PK63715 UK35839/PK63715
		INT_103_02	DRLRS103	UK35835/PK63715 UK35839/PK63715
	Report		DRLOINTE	
	Table	INTCON_CONF	DRLTINTE	UK35835/PK63715 UK35839/PK63715
		INTCON_PERFT_D	DRLTINTE	UK35835/PK63715 UK35839/PK63715
		INTCON_PERF_D	DRLTINTE	UK35835/PK63715 UK35839/PK63715
		INTCON_PERF_H	DRLTINTE	UK35835/PK63715 UK35839/PK63715
		INTCON_PERF_M	DRLTINTE	UK35835/PK63715 UK35839/PK63715
Update	INTCON_PERFX_D	DRLTINTE	UK35835/PK63715 UK35839/PK63715	

Network objects modified by migration from 1.7.1

Network	Object type	Object	Member name	APAR/PTF
Network NCP Utilization component	Update	NW_NCP_UTIL_H	DRLTNCP	

Network objects modified by migration from 1.7.1

Network	Object type	Object	Member name	APAR/PTF
Network NPM Transit Time component	Report	NWNT08	DRLONT	UK34008/PK57882 UK34022/PK57882 UK34023/PK57882 UK34024/PK57882 UK34025/PK57882 UK34026/PK57882 UK34027/PK57882
		NWNT10	DRLONT	UK34008/PK57882 UK34022/PK57882 UK34023/PK57882 UK34024/PK57882 UK34025/PK57882 UK34026/PK57882 UK34027/PK57882
		NWNT12	DRLONT	UK34008/PK57882 UK34022/PK57882 UK34023/PK57882 UK34024/PK57882 UK34025/PK57882 UK34026/PK57882 UK34027/PK57882
		NWNT14	DRLONT	UK34008/PK57882 UK34022/PK57882 UK34023/PK57882 UK34024/PK57882 UK34025/PK57882 UK34026/PK57882 UK34027/PK57882

Resource Accounting objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Resource Accounting	Purge	RAFADDRLOG	DRLTSTC	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
		RAFJOBLOG	DRLTBAT	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
		RAFSESLOG	DRLTTSO	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
	Table	RAFBATCH	DRLTBAT	UK41985/PK75140 UK41989/PK75140 UK41990/PK75140
		RAFDB2 RAFJOBLOG	DRLTDB2 DRLTBAT	UK41985/PK75140 UK41989/PK75140 UK41990/PK75140

Resource Accounting objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Resource Accounting (continued)	Update	Column Comment	DRLTCICS DRLTSTC DRLTSTO DRLUSTC DRLUCICS DRLUCICS	UK44304/PK75435 UK44309/PK75435 UK36423/PK61572 UK36424/PK61572 UK36425/PK61572 UK41985/PK75140 UK41989/PK75140 UK41990/PK75140
		RAFADDR_SMF30 RAFCICS_UP RAFCICS_UP1		
		RAFDB2_UP	DRLUDB2	
		RAFJOB_SMF30	DRLUBAT	
		RAFSES_SMF30	DRLUTSO	

Sample objects modified by migration from 1.7

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Sample	Record	SMF_016	DRLRSO16	

TCP/IP for z/OS objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
TCP/IP for z/OS	Record	SMF_119_1	DRLRS119	UK40888/PK73176
		SMF_119_2	DRLRS119	
SMF_119_21		DRLRS119		
SMF_119_3		DRLRS119		
SMF_119_5		DRLRS119		
SMF_119_70		DRLRS119		
SMF_119_72		DRLRS119		
SMF_119_73		DRLRS119		
SMF_119_74		DRLRS119	UK40308/PK71337 UK40311/PK71337	
SMF_119_75_80		DRLRS119	UK40308/PK71337 UK40311/PK71337	
		SMF_119_8	DRLRS119	UK40888/PK73176
	Report		DRLOTCP	

Tivoli Storage Manager (ADSM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Tivoli Storage Manager (ADSM)	Report		DRLOADSM	

TWS for z/OS objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
TWS for z/OS	Record	OPC_03_3	DRLROP03	UK32572/PK56736
		OPC_03_C	DRLROP03	UK32574/PK56736
		OPC_03_P	DRLROP03	UK32572/PK56736
		OPC_23	DRLROP23	UK32574/PK56736
		OPC_24	DRLROP24	UK32572/PK56736
		OPC_27	DRLROP27	UK32574/PK56736
	Report		DRLOOPC	

WebSphere MQ (MQSeries) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MQSeries	Record	MQS_115_1	DRLRS115	
		MQS_115_2	DRLRS115	
MQS_116_1		DRLRS116		
MQS_116_2		DRLRS116		
Report		DRLOMQS		

WebSphere MQ (MQSeries) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MQSeries (continued)	Table	MQS_ACCNT_CICS_D	DRLTMQAC	UK40851/PK71389
		MQS_ACCNT_CICS_M	DRLTMQAC	UK40855/PK71389
		MQS_ACCNT_CICS_T	DRLTMQAC	UK40851/PK71389
		MQS_ACCNT_D	DRLTMQAC	UK40855/PK71389
		MQS_ACCNT_IMS_D	DRLTMQAC	UK40851/PK71389
		MQS_ACCNT_IMS_M	DRLTMQAC	UK40855/PK71389
		MQS_ACCNT_IMS_T	DRLTMQAC	UK40851/PK71389
		MQS_ACCNT_M	DRLTMQAC	UK40855/PK71389
		MQS_ACCNT_QUEUE_D	DRLTMQA1	UK40851/PK71389
		MQS_ACCNT_QUEUE_M	DRLTMQA1	UK40855/PK71389
		MQS_ACCNT_QUEUE_T	DRLTMQA1	UK40851/PK71389
		MQS_ACCNT_T	DRLTMQAC	UK40855/PK71389
		MQS_ACCNT_TASK_D	DRLTMQA1	UK40851/PK71389
		MQS_ACCNT_TASK_M	DRLTMQA1	UK40855/PK71389
		MQS_ACCNT_TASK_T	DRLTMQA1	UK40851/PK71389
		MQS_BUFFER_D	DRLTMQST	UK40855/PK71389
		MQS_BUFFER_M	DRLTMQST	UK40851/PK71389
		MQS_BUFFER_T	DRLTMQST	UK40855/PK71389
		MQS_COUPL_FAC_D	DRLTMQS2	UK40851/PK71389
		MQS_COUPL_FAC_M	DRLTMQS2	UK40855/PK71389
		MQS_COUPL_FAC_T	DRLTMQS2	UK40851/PK71389
		MQS_DATA_D	DRLTMQST	UK40855/PK71389
		MQS_DATA_M	DRLTMQST	UK40851/PK71389
		MQS_DATA_T	DRLTMQST	UK40855/PK71389
		MQS_DB2_D	DRLTMQS2	UK40851/PK71389
		MQS_DB2_M	DRLTMQS2	UK40855/PK71389

WebSphere MQ (MQSeries) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
MQSeries (continued)	Table (continued)	MQS_DB2_T	DRLTMQS2	UK40851/PK71389	
		MQS_LOCK_D	DRLTMQS2	UK40851/PK71389	
		MQS_LOCK_M	DRLTMQS2	UK40851/PK71389	
		MQS_LOCK_T	DRLTMQS2	UK40851/PK71389	
		MQS_LOGMGR_D	DRLTMQSY	UK40851/PK71389	
		MQS_LOGMGR_M	DRLTMQSY	UK40851/PK71389	
		MQS_LOGMGR_T	DRLTMQSY	UK40851/PK71389	
		MQS_MSG_D	DRLTMQST	UK40851/PK71389	
		MQS_MSG_M	DRLTMQST	UK40851/PK71389	
		MQS_MSG_T	DRLTMQST	UK40851/PK71389	
		MQS_STORAGE_D	DRLTMQSY	UK40851/PK71389	
		MQS_STORAGE_M	DRLTMQSY	UK40851/PK71389	
		MQS_STORAGE_T	DRLTMQSY	UK40851/PK71389	
		Update	MQS_ACCNT_QUEUE1_T	DRLTMQA1	
			MQS_ACCNT_QUEUE2_T	DRLTMQA1	
	MQS_ACCNT_QUEUE_D		DRLTMQA1		
	MQS_ACCNT_QUEUE_M		DRLTMQA1		
	MQS_ACCNT_QUEUE_T		DRLTMQA1		
	MQS_ACCNT_TASK_D		DRLTMQA1		
	MQS_ACCNT_TASK_M		DRLTMQA1		
	MQS_ACCNT_TASK_T		DRLTMQA1		
	MQS_DB2_D		DRLTMQS2		
	MQS_DB2_M		DRLTMQS2		
	MQS_DB2_T		DRLTMQS2		

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS	Form	DRLFMV5A	DRLFMV5A (Japanese only)	
	JCL	Migration Job	DRLJMVOM	
	Panel	Dialog Parameters	DRLDASYQ (Japanese only)	
	Purge	MVS_TAPEMOUNTS_D MVS_TAPEMOUNTS_M MVS_TAPEMOUNTS_T	DRLTMVSA DRLTMVSA DRLTMVSA	

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
MVS (continued)	Record	RECORD	SMF_072_3	DRLRS072	
		SMF_025	DRLRS025		
		SMF_026	DRLRS026	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987	
		SMF_030	DRLRS030	UK40308/PK71337 UK40311/PK71337	
		SMF_030_2_3_X	DRLRS030	UK40308/PK71337 UK40311/PK71337	
		SMF_030_4_X	DRLRS030	UK40308/PK71337 UK40311/PK71337	
		SMF_030_OMVS_X	DRLRS030	UK40308/PK71337 UK40311/PK71337	
		SMF_030_X	DRLRS030	UK40308/PK71337 UK40311/PK71337	
		SMF_032	DRLRS032		
		SMF_070	DRLRS070	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987	
		SMF_070_X	DRLRS070	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987	
		SMF_071	DRLRS071	UK40308/PK71337 UK40311/PK71337	
		SMF_072_3	DRLRS072	UK40308/PK71337 UK40311/PK71337	
		SMF_078_3	DRLRS078	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987	
		SMF_085	DRLRS085	UK40308/PK71337 UK40311/PK71337	
		SMF_088	DRLRS088		
		SMF_094	DRLRS094	UK44858/PK81142	
		Report	MVS108	DRLOMVS4	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
			MVS109	DRLOMVS4	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987
			MVS121	DRLOMVS5	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
			MVS122	DRLOMVS5	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
			MVSPM04	DRLOMP5	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Report Definition	MVS21 MVS22 MVS24 MVS56A MVSM1 MVSM2 MVSM3	DRLOMVS6 DRLOMVS6 DRLOMVS6 DRLOMVS DRLOMVS6 DRLOMVS6 DRLOMVS6 DRLOMVS DRLOMVS1 DRLOMVS2 DRLOMVS3 DRLOMVS4 DRLOMVS5	
	Report Query	DRLQMV5A MVS21 MVS22 MVS24 MVS25 MVS26 MVS28 MVS29 MVSM1 MVSM2 MVSM3	DRLFMV5A (Japanese only) DRLQMV21 DRLQMV22 DRLQMV24 DRLQMV25 DRLQMV26 DRLQMV28 DRLQMV29 DRLQMVM1 DRLQMVM2 DRLQMVM3	
	Sample	DRLFPROF	DRLFPROF	

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Table	CICS_FIELD	DRLTCIFI	
		MVS_ACCNT23_PGM_T	DRLTMVAP	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_ACCNT_PGM_T	DRLTMVAP	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_ADDRDISTR_D	DRLTMVAD	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVS_ADDRDISTR_H	DRLTMVAD	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVS_ADDRDISTR_M	DRLTMVAD	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVS_ADDRSPACE_D	DRLTMVAS	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVS_ADDRSPACE_M	DRLTMVAS	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVS_ADDRSPACE_T	DRLTMVAS	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK41985/PK75140 UK41989/PK75140 UK41990/PK75140 UK43084/PK77990
		MVS_LPAR_D	DRLTMVSA	
		MVS_LPAR_M	DRLTMVLP	UK32436/PK52681
		MVS_MIPS_T	DRLTMVLP	UK32436/PK52681
		MVS_OAM_OSMC_D	DRLTMIPS	
			DRLTMVOC	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_OAM_OSMC_M	DRLTMVOC	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_OAM_OSREQ_T	DRLTMVOQ	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_PROGRAM_M	DRLTMVPR	UK32511/PK56167 UK32512/PK56167

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Table (continued)	MVS_SYSTEM_D	DRLTMVSY	UK32513/PK56167 UK43731/PK78103 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK39447/PK70657 UK39449/PK70657 UK39450/PK70657 UK39451/PK70657 UK44728/PK79972 UK44730/PK79972
		MVS_SYSTEM_H	DRLTMVSY	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK39447/PK70657 UK39449/PK70657 UK39450/PK70657 UK39451/PK70657 UK44728/PK79972 UK44730/PK79972
		MVS_SYSTEM_M	DRLTMVSY	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK39447/PK70657 UK39449/PK70657 UK39450/PK70657 UK39451/PK70657 UK44728/PK79972 UK44730/PK79972
		MVS_TAPEMOUNTS_D MVS_TAPEMOUNTS_M MVS_TAPEMOUNTS_T MVS_TAPE_M	DRLTMVSA DRLTMVSA DRLTMVSA DRLTMVTA	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_VTS_D MVS_VTS_H MVS_VTS_M MVS_WORKLOAD2_D	DRLTMVTS DRLTMVTS DRLTMVTS DRLTMVW2	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_WORKLOAD2_H	DRLTMVW2	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Table (continued)	MVS_WORKLOAD2_M	DRLTMVW2	UK35365/PK55987 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Update	MVSADDR_25_T MVSADDR_26_T MVSADDR_30_4_T MVSADDR_30_5_A_T MVSADDR_30_5_E_T MVSADDR_30_5_T	DRLTMVSA DRLTMVSA DRLTMVSA DRLTMVSA DRLTMVSA DRLTMVAS	UK41985/PK75140 UK41989/PK75140 UK41990/PK75140
		MVSADDR_6_T MVSOMVSADDR_T MVSOMVSADIS_T MVSPGM_30_4_M MVSSYS_70_CPU_H MVSSYS_70_CPU_H2 MVSSYS_70_CPU_HX MVSSYS_70_H	DRLTMVSA DRLTMVSA DRLTMVAO DRLTMVDO DRLTMVPR DRLTMVSY DRLTMVSY DRLTMVSY DRLTMVSY	UK43731/PK78103 UK41489/PK73675 UK41489/PK73675 UK41489/PK73675 UK39447/PK70657 UK39449/PK70657 UK39450/PK70657 UK39451/PK70657 UK41489/PK73675
		MVSSYS_71_H MVSSYS_72_3_PGP_H MVSSYS_72_PGP_H MVSSYS_7_H	DRLTMVSY DRLTMVSY DRLTMVSY DRLTMVSY	UK41489/PK73675 UK41489/PK73675 UK41489/PK73675 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSSYS_D_M	DRLTMVSY	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSSYS_H_D	DRLTMVSY	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSTAPEM_D_M MVSTAPEM_T_D MVSTAPE_21_M MVSWORK_72_PGP_H MVS_EXCEPT_SMFLOST	DRLTMVSA DRLTMVSA DRLTMVTA DRLTMVWO DRLUMVEX	UK35526/PK61871 UK41489/PK73675 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_GOAL_ACT_D MVS_LPAR_D	DRLTMVGA DRLTMVLP	UK41489/PK73675 UK32436/PK52681 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK41489/PK73675
		MVS_LPAR_D2 MVS_LPAR_M	DRLTMVLP DRLTMVLP	UK41489/PK73675 UK32436/PK52681

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Update (continued)			UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_LPAR_ZOS_D	DRLTMVLP	UK32436/PK52681 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK41489/PK73675
		MVS_LPAR_ZOS_WLM	DRLTMVLP	UK32436/PK52681 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_LPAR_ZOS_WLM_D MVS_OAM_OSMC_M	DRLTMVLP DRLUMVOC	UK41489/PK73675 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987
		MVS_OAM_OSREQ_T	DRLUMVOQ	UK35365/PK55987 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987
		MVS_OAM_ZOSMC_D	DRLUMVOC	UK35365/PK55987 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987
		MVS_WORKLOAD2_D	DRLTMVW2	UK35365/PK55987 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987
		MVS_WORKLOAD2_H	DRLTMVW2	UK35365/PK55987 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_WORKLOAD2_M	DRLTMVW2	UK41489/PK73675 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		System Tables	DRLISP	

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	View	MVS_LPAR_DV	DRLTMVLP	UK32436/PK52681 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_LPAR_MV	DRLTMVLP	UK32436/PK52681 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_WORKLOAD2_DV	DRLVMVWA	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_WORKLOAD2_DV2	DRLVMVWA	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_WORKLOAD2_DV4	DRLVMVWB	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_WORKLOAD2_HV	DRLVMVWA	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_WORKLOAD2_HV2	DRLVMVWA	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_WORKLOAD2_HV4	DRLVMVWB	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_WORKLOAD2_MV	DRLVMVWA	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVS_WORKLOAD2_MV2	DRLVMVWA	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_WORKLOAD2_MV4	DRLVMVWA DRLVMVWB DRLVMVWB	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
MVS Availability	Report		DRLOJAC DRLOMVSA	
	Update	AVAIL_30_T	DRLUMVAV	
MVS (z/OS) Interval Job/Step Accounting	Purge	MVSAC_JOBSTEP_T	DRLTJSTE	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (z/OS) Interval Job/Step Accounting (continued)	Record	SMF_014	DRLRS014	UK40308/PK71337 UK40311/PK71337
		SMF_015	DRLRS015	UK40308/PK71337 UK40311/PK71337
		SMF_064	DRLRS064	UK40308/PK71337 UK40311/PK71337
	Report		DRLOJAC	
	Table	MVSAC_JOBADDR1_D	DRLTJAC1	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVSAC_JOBADDR1_H	DRLTJAC1	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVSAC_JOBADDR1_M	DRLTJAC1	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVSAC_JOBADDR1_T	DRLTJAC1	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK32739/PK57226 UK33792/PK60443 UK34326/PK60825 UK34329/PK60825 UK41985/PK75140 UK41989/PK75140 UK41990/PK75140 UK43084/PK77990 UK43304/PK77986 UK43307/PK77986
		MVSAC_JOBADDR_D	DRLTJAC2	UK35810/PK63447 UK35812/PK63447
		MVSAC_JOBADDR_H	DRLTJAC2	UK35810/PK63447 UK35812/PK63447
		MVSAC_JOBADDR_M	DRLTJAC2	UK35810/PK63447 UK35812/PK63447
		MVSAC_JOBADDR_T	DRLTJAC2	UK35810/PK63447 UK35812/PK63447
		MVSAC_JOBSTEP_T	DRLTJSTE	UK32739/PK57226 UK33792/PK60443

z/OS System (MVS) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (z/OS) Interval Job/Step Accounting (continued)	Update	Column Comment	DRLTJSTE	
		MVSACJOB_14_T	DRLUJAC2	UK35810/PK63447
		MVSACJOB_15_T	DRLUJAC2	UK35812/PK63447
		MVSACJOB_30_5_T	DRLUJAC1	UK35810/PK63447
				UK32739/PK57226
				UK33792/PK60443
				UK41985/PK75140
	MVSACJOB_30_T5	DRLUJAC1	UK41989/PK75140	
			UK41990/PK75140	
	MVSACJOB_64_T	DRLUJAC2	UK41985/PK75140	
			UK41989/PK75140	
			UK41990/PK75140	
	MVSACSTP_30_4_E_T	DRLUJSTE	UK35810/PK63447	
MVSACSTP_30_4_T	DRLUJSTE	UK35812/PK63447		
		UK41982/PK75856		
		UK32739/PK57226		
		UK33792/PK60443		
		UK41982/PK75856		
View	MVSAC_JOBADDR1_TV		DRLTJACV	UK32511/PK56167
				UK32512/PK56167
				UK32513/PK56167
	MVSAC_JOBADDR_TV		DRLTJACV	UK32739/PK57226
				UK33792/PK60443
				UK41985/PK75140
MVSAC_JOBSTEP_TV		DRLTJSTV	UK41989/PK75140	
			UK41990/PK75140	
			UK43084/PK77990	

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM	Record	SMF_030	DRLRS030	
		SMF_030_2_3_x	DRLRS030	
		SMF_030_4_x	DRLRS030	
		SMF_030_OMVS_X	DRLRS030	
		SMF_030_X	DRLRS030	
		SMF_033	DRLRS033	
		SMF_042_15	DRLRS042	
			DRLRSY42	UK40308/PK71337 UK40311/PK71337
		SMF_042_16	DRLRS042	
			DRLRSY42	UK40308/PK71337 UK40311/PK71337
		SMF_042_19	DRLRS042	
		SMF_042_4	DRLRS042	
				UK40308/PK71337 UK40311/PK71337
		SMF_062	DRLRS062	
		SMF_064	DRLRS064	
		SMF_070	DRLRS070	
				UK38756/PK64212 UK38758/PK64212 UK38759/PK64212 UK38760/PK64212 UK39447/PK70657 UK39449/PK70657 UK39450/PK70657 UK39451/PK70657
		SMF_070_2	DRLTMPAS	
		SMF_070_2_X	DRLTMPAS	
		SMF_070_X	DRLTMPAS	
			DRL2S070	
			DRLRS070	UK38756/PK64212 UK38758/PK64212 UK38759/PK64212 UK38760/PK64212 UK39447/PK70657 UK39449/PK70657 UK39450/PK70657 UK39451/PK70657
		SMF_073	DRLRS073	
				UK40308/PK71337 UK40311/PK71337
SMF_074_1	DRLRS074			
		UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987 UK40308/PK71337 UK40311/PK71337		
SMF_074_4	DRLRS074			
SMF_078_1	DRLRS078			
		UK40308/PK71337 UK40311/PK71337		
SMF_078_2	DRLRS078			
		UK40308/PK71337 UK40311/PK71337		
SMF_078_2_X	DRLRS078			
		UK40308/PK71337 UK40311/PK71337		

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Record (continued)	SMF_078_3	DRLRS078	UK40308/PK71337
		SMF_079	DRLRS079	UK40311/PK71337
SMF_092		DRLRS092	UK40311/PK71337	
	Report Definition	MVSPM06 MVSPM07 MVSPM08 MVSPMM3	DRLOMP4 DRLOMP4 DRLOMP4 DRLOMP4 DRLOMP DRLOMP1 DRLOMP2 DRLOMP3 DRLOMP5 DRLOMP6 DRLOMP7 DRLOMP8 DRLOMP9 DRLOMPA DRLOMPB DRLOMPC	

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Report	MVSPM02	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM03	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM04	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM05	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM06	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM07	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM08	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM09	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM0A	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM10	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM104	DRLOMP5	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM11	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM113	DRLOMP4	UK39447/PK70657 UK39449/PK70657 UK39450/PK70657 UK39451/PK70657
		MVSPM115	DRLOMP5	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM116	DRLOMP4	UK38756/PK64212 UK38758/PK64212 UK38759/PK64212 UK38760/PK64212
		MVSPM117	DRLOMP4	UK38756/PK64212 UK38758/PK64212 UK38759/PK64212

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Report (continued)	MVSPM12	DRLOMP8	UK38760/PK64212 UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM14	DRLOMP8	UK39225/PK69395 UK39226/PK69395 UK39227/PK69395
		MVSPM15	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM16	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM17	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM18	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM20	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM21	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM22	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM23	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM24	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM26	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM27	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM28	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM29	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM30	DRLOMP4	UK31725/PK53524 UK31726/PK53524 UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM31	DRLOMP4	UK32729/PK54127

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Report (continued)	MVSPM32	DRLOMP5	UK32733/PK54127 UK32734/PK54127 UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM33	DRLOMP5	UK31725/PK53524 UK31726/PK53524 UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM34	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM37	DRLOMP2	UK32729/PK54127 UK32733/PK54127
		MVSPM38	DRLOMPA	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM39	DRLOMP7	UK35802/PK62892 UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM40	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM41	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM42	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM43	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM44	DRLOMP4	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM45	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM46	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM47	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM48	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM49	DRLOMP8	UK32729/PK54127 UK32733/PK54127

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Report (continued)	MVSPM50	DRLOMP8	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM51	DRLOMP8	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM52	DRLOMP4	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM53	DRLOMP7	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM54	DRLOMP7	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM55	DRLOMP4	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM56	DRLOMP2	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM57	DRLOMP2	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM58	DRLOMP8	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM59	DRLOMP8	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM60	DRLOMP8	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM61	DRLOMP8	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM64	DRLOMP9	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM65	DRLOMP9	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM66	DRLOMP9	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM67	DRLOMP9	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM71	DRLOMP5	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Report (continued)	MVSPM72	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM73	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM74	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM75	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM76	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM78	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM79	DRLOMP5	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM80	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM81	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM82	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM83	DRLOMP7	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM84	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM85	DRLOMP8	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM86	DRLOMP1	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM89	DRLOMP1	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM90	DRLOMP3	UK32729/PK54127 UK32733/PK54127 UK32734/PK54127
		MVSPM91	DRLOMP3	UK32729/PK54127 UK32733/PK54127

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Report (continued)	MVSPM92	DRLOMP3	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM93	DRLOMP3	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM94	DRLOMP3	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM95	DRLOMP3	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM96	DRLOMP3	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM97	DRLOMP3	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM98	DRLOMP7	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPM99	DRLOMPA	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPMM1	DRLOMP4	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPMM2	DRLOMP4	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPMM3	DRLOMP4	UK32734/PK54127 UK32729/PK54127 UK32733/PK54127
		MVSPMZ2	DRLOMP7	UK32734/PK54127 UK35361/PK55987 UK35363/PK55987
			REPORT	MVSPM04
	Report Query	MVSPM04 MVSPM06 MVSPM07 MVSPM08 MVSPMM3	DRLOMP5 DRLQMP06 DRLQMP07 DRLQMP08 DRLQMPM3	
	SQL	(Installation) (Migration)	DRLIMP DRLIMP	

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Table	MVSPM_APPL_H	DRLTMPAP	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVSPM_CF_PROC_H	DRLTMPCF	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM_CF_REQUEST_H	DRLTMPCR	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM_CHANNEL_H MVSPM_CLUSTER_H MVSPM_CPU_H	DRLTMPCH DRLTMPLC DRLTMPCU	UK38756/PK64212 UK38758/PK64212 UK38759/PK64212 UK38760/PK64212
		MVSPM_CRYPTOC_CCF_H MVSPM_DEVICE_H	DRLTMPCC DRLTMPDE	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987 UK42946/PK76378 UK42948/PK76378 UK42949/PK76378 UK42950/PK76378
		MVSPM_LCU_IO_H	DRLTMPCI	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM_LPAR_H MVSPM_PAGING_H	DRLTMPLP DRLTMPPG	UK32436/PK52681 UK38756/PK64212 UK38758/PK64212 UK38759/PK64212 UK38760/PK64212 UK39225/PK69395 UK39226/PK69395 UK39227/PK69395 UK42946/PK76378 UK42948/PK76378 UK42949/PK76378 UK42950/PK76378
		MVSPM_SYSTEM_H	DRLTMPAS	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK44728/PK79972 UK44730/PK79972 UK39447/PK70657 UK39449/PK70657 UK39450/PK70657 UK39451/PK70657

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Table (continued)	MVSPM_VS_PRIVATE_H	DRLTMPV2	UK42946/PK76378 UK42948/PK76378 UK42949/PK76378 UK42950/PK76378
		MVSPM_WORKLOAD2_H	DRLTMPW2	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK42946/PK76378 UK42948/PK76378 UK42949/PK76378 UK42950/PK76378 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM_XCF_MEMBER_H	DRLTMPXM	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM_XCF_PATH_H	DRLTMPXP	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVS_MIPS_T	DRLTMIPS	

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Update (continued)	MVSPM_WORKLOAD_H MVSPM_XCF_MEMBER_H MVSPM_XCF_PATH_H MVSPM_XCF_SYS_H	DRLTMPWO DRLTMPXM DRLTMPXP DRLTMPXS	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987 UK41489/PK73675 UK41489/PK73675 UK41489/PK73675 UK41489/PK73675 UK41489/PK73675

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	View	MVSPM_APPL_HV	DRLTMPAP	UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK43084/PK77990
		MVSPM_CACHE_HV MVSPM_CF_PROC_HV	DRLTMPCA DRLTMPCF	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM_CF_REQ_HV	DRLTMPCR	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM_CF_TO_CF_HV MVSPM_CHANNEL_HV MVSPM_CPU_HV	DRLTMPFF DRLTMPCH DRLTMPCU	UK35802/PK62892 UK38756/PK64212 UK38758/PK64212 UK38759/PK64212 UK38760/PK64212 UK42326/PK76384
		MVSPM_CRYPTOC_CCF_H MVSPM_DATASET_HV MVSPM_DEVICE_AP_HV MVSPM_DEVICE_HV	DRLTMPCC DRLTMPDS DRLTMPDA DRLTMPDE	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987 UK42946/PK76378 UK42948/PK76378 UK42949/PK76378 UK42950/PK76378
		MVSPM_ENQUEUE_HV MVSPM_ESSLINK_HV MVSPM_LCU_IO_HV	DRLTMPEQ DRLTMPES DRLTMPCI	UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987
		MVSPM_LPAR_HV	DRLTMPLP	UK32436/PK52681 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167
		MVSPM_PAGE_DS_HV MVSPM_PAGING_HV	DRLTMPPD DRLTMPPG	UK38756/PK64212 UK38758/PK64212 UK38759/PK64212 UK38760/PK64212 UK39225/PK69395 UK39226/PK69395 UK39227/PK69395 UK42946/PK76378 UK42948/PK76378 UK42949/PK76378

z/OS Performance Management (MVSPM) objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF		
MVSPM (continued)	View (continued)	MVSPM_RAID_RANK_HV MVSPM_STORAGE_HV MVSPM_STORCLASS_HV MVSPM_SWAP_HV MVSPM_SYSTEM_HV	DRLTMPRR	UK42950/PK76378 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK39447/PK70657 UK39449/PK70657 UK39450/PK70657 UK39451/PK70657 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK42946/PK76378 UK42948/PK76378 UK42949/PK76378 UK42950/PK76378 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987 UK32511/PK56167 UK32512/PK56167 UK32513/PK56167 UK42946/PK76378 UK42948/PK76378 UK42949/PK76378 UK42950/PK76378 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987 UK35361/PK55987 UK35363/PK55987 UK35364/PK55987 UK35365/PK55987		
			DRLTMPST			
			DRLTMPSC			
			DRLTMPSW			
			DRLTMPAS			
		MVSPM_WORKLOAD2_HV	DRLTMPW2			
			MVSPM_WORKLOADX_HV		DRLTMPW2	
					MVSPM_XCF_PATH_HV	DRLTMPXP
						DRLTMPXS

WebSphere Application Server objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
WebSphere Activity	Purge	WASACT_REQAPPL_D	DRLTWASA	UK42986/PK75543
		WASACT_REQAPPL_H	DRLTWASA	UK42988/PK75543
		WASACT_REQAPPL_M	DRLTWASA	UK42986/PK75543
		WASACT_REQCONT_D	DRLTWASC	UK42988/PK75543
		WASACT_REQCONT_H	DRLTWASC	UK42986/PK75543
		WASACT_REQCONT_M	DRLTWASC	UK42988/PK75543
		WAS_ACT_BEANMTHD	DRLTJCAM	UK42986/PK75543
				UK43223/PK77717
				UK43224/PK77717
				UK43225/PK77717
				UK43226/PK77717
		WAS_ACT_CLASS	DRLTWACO	UK44308/PK75435
				UK43223/PK77717
				UK43224/PK77717
				UK43225/PK77717
				UK43226/PK77717
		WAS_ACT_CONTAIN	DRLTWACO	UK44308/PK75435
				UK43223/PK77717
				UK43224/PK77717
		WAS_ACT_HTTPSESS	DRLTWAHS	UK43223/PK77717
		UK43224/PK77717		
		UK43225/PK77717		
		UK43226/PK77717		
WAS_ACT_J2EECNT	DRLTJCAM	UK44308/PK75435		
		UK43223/PK77717		
		UK43224/PK77717		
		UK43225/PK77717		
		UK43226/PK77717		
WAS_ACT_METHOD	DRLTWACO	UK44308/PK75435		
		UK43223/PK77717		
		UK43224/PK77717		
		UK43225/PK77717		
		UK43226/PK77717		
WAS_ACT_SERVER	DRLTWASE	UK44308/PK75435		
		UK43223/PK77717		
		UK43224/PK77717		
		UK43225/PK77717		
		UK43226/PK77717		
WAS_ACT_SERVLETS	DRLTWASW	UK44308/PK75435		
		UK43223/PK77717		
		UK43224/PK77717		
		UK43225/PK77717		
		UK43226/PK77717		
		UK44308/PK75435		

WebSphere Application Server objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
WebSphere Activity (continued)	Purge (continued)	WAS_ACT_SERV_HEAP	DRLTWASH	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
		WAS_ACT_WEBAPPL	DRLTWASW	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
		WAS_CONNECT_ACTID	DRLTWASV	UK43223/PK77717 UK43224/PK77717 UK43225/PK77717 UK43226/PK77717 UK44308/PK75435
	Record	SMF_120_1	DRLRS121	UK40428/PK71325 UK40431/PK71325
		SMF_120_9	DRLRS129	UK42986/PK75543 UK42988/PK75543
	Table	WASACT_REQAPPL_D	DRLTWASA	UK42986/PK75543 UK42988/PK75543
		WASACT_REQAPPL_H	DRLTWASA	UK42986/PK75543 UK42988/PK75543
		WASACT_REQAPPL_M	DRLTWASA	UK42986/PK75543 UK42988/PK75543
		WASACT_REQCONT_D	DRLTWASC	UK42986/PK75543 UK42988/PK75543
		WASACT_REQCONT_H	DRLTWASC	UK42986/PK75543 UK42988/PK75543
		WASACT_REQCONT_M	DRLTWASC	UK42986/PK75543 UK42988/PK75543
	Tablespace	DRLSWAS5	DRLSWASC	UK42986/PK75543 UK42988/PK75543
		DRLSWAS6	DRLSWASC	UK42986/PK75543 UK42988/PK75543
		DRLSWAS7	DRLSWASC	UK42986/PK75543 UK42988/PK75543
		DRLSWAS8	DRLSWASA	UK42986/PK75543 UK42988/PK75543
		DRLSWAS9	DRLSWASA	UK42986/PK75543 UK42988/PK75543
		DRLSWASA	DRLSWASA	UK42986/PK75543 UK42988/PK75543

WebSphere Application Server objects modified by migration from 1.7.1

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
WebSphere Activity (continued)	Update	WASACT_REQAPPL_DU	DRLTWASA	UK42986/PK75543
		WASACT_REQAPPL_HU	DRLTWASA	UK42988/PK75543
		WASACT_REQAPPL_MU	DRLTWASA	UK42986/PK75543
		WASACT_REQCONT_DU	DRLTWASC	UK42988/PK75543
		WASACT_REQCONT_HU	DRLTWASC	UK42986/PK75543
		WASACT_REQCONT_MU	DRLTWASC	UK42988/PK75543
		WAS_ACT_SERVER	DRLUWASE	UK42986/PK75543
	View	WASACT_REQAPPL_DV	DRLTWASA	UK40428/PK71325
		WASACT_REQAPPL_HV	DRLTWASA	UK40431/PK71325
		WASACT_REQAPPL_MV	DRLTWASA	UK42986/PK75543
		WASACT_REQCONT_DV	DRLTWASC	UK42988/PK75543
		WASACT_REQCONT_HV	DRLTWASC	UK42986/PK75543
		WASACT_REQCONT_MV	DRLTWASC	UK42988/PK75543
	WebSphere Interval	Record	SMF_120_3	DRLRS123
Table		WAS_INT_SERVER_D	DRLTWISV	UK40431/PK71325
		WAS_INT_SERVER_H	DRLTWISV	UK40428/PK71325
		WAS_INT_SERVER_M	DRLTWISV	UK40431/PK71325
Update		WAS_INT_SERVER_D	DRLUWISV	UK40428/PK71325
		WAS_INT_SERVER_H	DRLUWISV	UK40431/PK71325
		WAS_INT_SERVER_M	DRLUWISV	UK40428/PK71325
View		WAS_INT_SERVER_DV	DRLVWISV	UK40431/PK71325
		WAS_INT_SERVER_HV	DRLVWISV	UK40428/PK71325
		WAS_INT_SERVER_MV	DRLVWISV	UK40431/PK71325

WebSphere Application Server objects modified by migration from 1.7.1

Appendix E. Component objects modified by migration from 1.8.0

This appendix contains information about the component objects that have been modified by IBM for migration from product Version 1.8.0 to Version 1.8.1.

Component objects belonging to these Tivoli Decision Support for z/OS features are affected:

- “Base Feature objects modified by migration from 1.8.0” on page 474.
- “CICS any component objects modified by migration from 1.8.0” on page 474.
- “CICS Partitioning feature objects modified by migration from 1.8.0” on page 475.
- “CICS Performance feature objects modified by migration from 1.8.0” on page 481.
- “Data Set objects modified by migration from 1.8.0” on page 488.
- “DB2 objects modified by migration from 1.8.0” on page 488.
- “DFSMS objects modified by migration from 1.8.0” on page 493.
- “Distributed Performance feature objects modified by migration from 1.8.0” on page 493.
- “IMS objects modified by migration from 1.8.0” on page 494.
- “Internet connection Secure Server objects modified by migration from 1.8.0” on page 494.
- “Monitoring Agent objects modified by migration from 1.8.0” on page 495.
- “Network objects modified by migration from 1.8.0” on page 496.
- “Resource Accounting objects modified by migration from 1.8.0” on page 496.
- “OS/400 objects modified by migration from 1.8.0” on page 499.
- “RACF objects modified by migration from 1.8.0” on page 500.
- “TCP/IP for z/OS objects modified by migration from 1.8.0” on page 502.
- “Tivoli Performance Modeler objects modified by migration from 1.8.0” on page 503.
- “TWS for z/OS objects modified by migration from 1.8.0” on page 503.
- “WebSphere Message Broker objects modified by migration from 1.8.0” on page 503.
- “WebSphere MQ (MQSeries) objects modified by migration from 1.8.0” on page 504.
- “z/OS System (MVS) objects modified by migration from 1.8.0” on page 506.
- “z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0” on page 518.
- “WebSphere Application Server objects modified by migration from 1.8.0” on page 531.

As from Tivoli Decision Support for z/OS Version 1.8.1, the APAR/PTFs which modified the objects are also listed. Please note that this information is only available for objects which were modified since the GA of Tivoli Decision Support for z/OS Version 1.8.0. Objects modified prior to this, do not have any information listed in the APAR/PTFs column.

Base Feature objects modified by migration from 1.8.0

Base Feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
(Not applicable)	Record	SMF_018	DRLRS018	UK40309/PK71337 UK40312/PK71337
		SMF_019	DRLRS019	UK40309/PK71337 UK40312/PK71337
		SMF_022	DRLRS022	UK40309/PK71337 UK40312/PK71337
		SMF_023	DRLRS023	UK40309/PK71337 UK40312/PK71337
		SMF_082_2	DRLRS082	UK40309/PK71337 UK40312/PK71337
		SMF_089	DRLRS089	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987
		SMF_099	DRLRS099	UK35368/PK55987 UK40309/PK71337 UK40312/PK71337
		SMF_114_1	DRLRS114	UK40312/PK71337 UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987

CICS any component objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS (all)	Record	SMF_CICS_T	DRLRS110	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
	Table	CICS_FIELD	DRLTCIFI	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK34754/PK62438

CICS Partitioning feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned	Purge	CICS_RMI_PERF_TP	DRLTC8P7	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
	Record	SMF_110_1 SMF_110_1_C SMF_110_1_CO SMF_CICS_T	DRLRS110 DRLRS110 DRLRS110 DRLRS110	UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435

CICS Partitioning feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned (continued)	Table	CICS_A_BASIC_HP	DRLTC4P1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_A_BASIC_WP	DRLTC4P1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_A_USR_HP	DRLTC4P2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_A_USR_WP	DRLTC4P2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_FIELD	DRLTCIFI	UK44305/PK75435
		CICS_TRANSACTION_DP	DRLTC1P1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_TRANSACTION_WP	DRLTC1P1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_TRAN_USR_DP	DRLTC1P2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572

CICS Partitioning feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned (continued)	Table (continued)	CICS_TRAN_USR_HP	DRLTC1P0	UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
		CICS_TRAN_USR_WP	DRLTC1P2	UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
		CICS_T_TRAN_TP	DRLTC9P1	UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572

CICS Partitioning feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned (continued)	Update	CICSBTS_TRAN_US_HP	DRLTC1P0	UK44305/PK75435
		CICSCHN_TRAN_US_HP	DRLTC1P0	UK44305/PK75435
		CICSDOC_TRAN_US_HP	DRLTC1P0	UK44305/PK75435
		CICSWEB_TRAN_US_HP	DRLTC1P0	UK44305/PK75435
		CICS_A_BASIC_HP	DRLTC4P1	UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
		CICS_A_BASIC_WP	DRLTC4P1	UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
		CICS_A_USR_HP	DRLTC4P2	UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
		CICS_A_USR_WP	DRLTC4P2	UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
		UK31708/PK53572		
		UK31718/PK53572		
CICS_BEAN_REQ_HP	DRLTP15J	UK44305/PK75435		
CICS_DLI_USR_HP	DRLTC3P0	UK44305/PK75435		
CICS_RMI_PERF_D1	DRLTC8P7	UK44305/PK75435		
CICS_RMI_PERF_DP1	DRLTC8P7	UK44305/PK75435		
CICS_RMI_PERF_H1	DRLTC8P7	UK44305/PK75435		
CICS_RMI_PERF_HP1	DRLTC8P7	UK44305/PK75435		
CICS_RMI_PERF_T1	DRLTC8P7	UK44305/PK75435		
CICS_RMI_PERF_T2	DRLTC8P7	UK44305/PK75435		
CICS_RMI_PERF_TP1	DRLTC8P7	UK44305/PK75435		
CICS_RMI_PERF_TP2	DRLTC8P7	UK44305/PK75435		
CICS_TRANSACTION_DP	DRLTC1P1	UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
		UK31707/PK53572		

CICS Partitioning feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned (continued)	Update (continued)	CICS_TRANSACTION_WP	DRLTC1P1	UK31708/PK53572 UK31718/PK53572 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_TRAN_USR_DP	DRLTC1P2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_TRAN_USR_H2	DRLTC1P0	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_TRAN_USR_HP	DRLTC1P0	UK44305/PK75435 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_TRAN_USR_WP	DRLTC1P2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_T_TRAN_TP	DRLTC9P1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_T_TRAN_TP1	DRLTC9P1	UK31701/PK53572 UK31718/PK53572

CICS Partitioning feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring Partitioned (continued)	Update (continued)			UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK44305/PK75435
CICS Statistics Partitioned	Update	CICS_S_ENQUE_MGR_TP CICS_S_ENQU_MGR2_TP CICS_S_PROGRAM_TP CICS_S_PROGRA_T23P CICS_S_PROGRA_TDSP CICS_S_PROGRA_TGLP CICS_S_RECO_MGR_TP CICS_S_TERMINAL_AP CICS_S_TERMINAL_TP CICS_S_TRAN_TP CICS_S_TRAN_T_11P	DRLTS3P4 DRLTS3P4 DRLTS2P6 DRLTS2P6 DRLTS2P6 DRLTS2P6 DRLTS2P6 DRLTS3P4 DRLTS1P3 DRLTS1P3 DRLTS3P2 DRLTS3P2	UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435
CICS Transaction and Unit-of-Work Analysis Partitioning	Purge	CICSBTS_T_TRAN_TP CICSCHN_T_TRAN_TP CICSDOC_T_TRAN_TP CICSWEB_T_TRAN_TP CICS_T_TRAN_TP	DRLTC9P1 DRLTC9P1 DRLTC9P1 DRLTC9P1 DRLTC9P1	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
	Record	SMF_110_1 SMF_110_1_C SMF_110_1_CO SMF_CICS_T	DRLRS110 DRLRS110 DRLRS110 DRLRS110	UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435
	Update	CICSBTS_T_TRAN_TP CICSCHN_T_TRAN_TP CICSDOC_T_TRAN_TP CICSWEB_T_TRAN_TP	DRLTC9P1 DRLTC9P1 DRLTC9P1 DRLTC9P1	UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435

CICS Performance feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring	Purge	CICS_RMI_PERF_T	DRLTC850	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
	Record	SMF_110_1 SMF_110_1_C SMF_110_1_CO SMF_CICS_T	DRLRS110 DRLRS110 DRLRS110 DRLRS110	UK44305/PK75435 UK44305/PK75435 UK44305/PK75435 UK44305/PK75435

CICS Performance feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Table	CICS_A_BASIC_H	DRLTC401	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_A_BASIC_W	DRLTC401	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_A_USR_H	DRLTC402	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_A_USR_W	DRLTC402	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_FIELD CICS_TRANSACTION_D	DRLTCIFI DRLTC101	UK44305/PK75435 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_TRANSACTION_H	DRLTC101	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		CICS_TRANSACTION_W	DRLTC101	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572

CICS Performance feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Table (continued)	CICS_TRAN_USR_D	DRLTC102	UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
		CICS_TRAN_USR_H	DRLTCITR	UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
		CICS_TRAN_USR_W	DRLTC102	UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
		CICS_T_TRAN_T	DRLTC901	UK31703/PK53572
				UK31704/PK53572
UK31705/PK53572				
UK31706/PK53572				
UK31707/PK53572				
UK31708/PK53572				
UK31718/PK53572				
UK31701/PK53572				
UK31703/PK53572				
UK31704/PK53572				

CICS Performance feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Update	CICSBTS_A_BASIC_H	DRLTC401	UK44305/PK75435
		CICSBTS_A_USR_H	DRLTC402	UK44305/PK75435
		CICSBTS_TRANSACT_H	DRLTC101	UK44305/PK75435
		CICSBTS_TRAN_USR_H	DRLTCITR	UK44305/PK75435
		CICSCHN_A_BASIC_H	DRLTC401	UK44305/PK75435
		CICSCHN_A_USR_H	DRLTC402	UK44305/PK75435
		CICSCHN_TRANSACT_H	DRLTC101	UK44305/PK75435
		CICSCHN_TRAN_USR_H	DRLTCITR	UK44305/PK75435
		CICSDOC_A_BASIC_H	DRLTC401	UK44305/PK75435
		CICSDOC_A_USR_H	DRLTC402	UK44305/PK75435
		CICSDOC_TRANSACT_H	DRLTC101	UK44305/PK75435
		CICSDOC_TRAN_USR_H	DRLTCITR	UK44305/PK75435
		CICSWEB_A_BASIC_H	DRLTC401	UK44305/PK75435
		CICSWEB_A_USR_H	DRLTC402	UK44305/PK75435
		CICSWEB_TRANSACT_H	DRLTC101	UK44305/PK75435
		CICSWEB_TRAN_USR_H	DRLTCITR	UK44305/PK75435
		CICS_A_BASIC_H	DRLTC401	UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
		CICS_A_BASIC_H1	DRLTC401	UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
		CICS_A_BASIC_W	DRLTC401	UK44305/PK75435
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
		UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
CICS_A_DLI_H	DRLTC601	UK44305/PK75435		
CICS_A_DLI_USR_H	DRLTC602	UK44305/PK75435		
CICS_A_USR_H	DRLTC402	UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
		UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
CICS_A_USR_H1	DRLTC402	UK31701/PK53572		

CICS Performance feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Update (continued)	CICS_A_USR_W	DRLTC402	UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK44305/PK75435
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
		CICS_BEAN_REQ_H CICS_DLI_TRAN_H CICS_DLI_USR_H CICS_RMI_PERF_T1 CICS_RMI_PERF_T2 CICS_TRANSACTION_D	DRLTC15J	UK44305/PK75435
			DRLTC301	UK44305/PK75435
			DRLTC300	UK44305/PK75435
			DRLTC850	UK44305/PK75435
			DRLTC850	UK44305/PK75435
			DRLTC101	UK31701/PK53572
		CICS_TRANSACTION_H	DRLTC101	UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
		CICS_TRANSACTION_W	DRLTC101	UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
UK31706/PK53572				
CICS_TRANSACT_H1	DRLTC101	UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		

CICS Performance feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Monitoring (continued)	Update (continued)	CICS_TRAN_USR_D	DRLTC102	UK31718/PK53572
				UK44305/PK75435
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
		CICS_TRAN_USR_H	DRLTCITR	UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
		CICS_TRAN_USR_H1	DRLTCITR	UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
CICS_TRAN_USR_W	DRLTC102	UK31708/PK53572		
		UK31718/PK53572		
		UK44305/PK75435		
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
CICS_T_TRAN_T	DRLTC901	UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
CICS_T_TRAN_T1	DRLTC901	UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		

CICS Performance feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
CICS Statistics	Report	CICS801	DRLOCI08	UK31788/PK54517 UK31789/PK54517
		CICS808	DRLOCI08	UK31788/PK54517 UK31789/PK54517
		CICS811	DRLOCI08	UK31788/PK54517 UK31789/PK54517
		CICS826	DRLOCI08	UK31788/PK54517 UK31789/PK54517
		CICS827	DRLOCI08	UK31788/PK54517 UK31789/PK54517
	Update	CICS_S_ENQUE_MGR_T	DRLTC827	UK44305/PK75435
		CICS_S_ENQU_MGR2_T	DRLTC827	UK44305/PK75435
		CICS_S_PROGRAM_T	DRLTC812	UK44305/PK75435
		CICS_S_PROGRAM_T23	DRLTC812	UK44305/PK75435
		CICS_S_PROGRAM_TDS	DRLTC812	UK44305/PK75435
		CICS_S_PROGRAM_TGL	DRLTC812	UK44305/PK75435
		CICS_S_RECOV_MGR_T	DRLTC827	UK44305/PK75435
		CICS_S_TERMINAL_A	DRLTC802	UK44305/PK75435
		CICS_S_TERMINAL_T	DRLTC802	UK44305/PK75435
CICS_S_TRAN_T	DRLTC803	UK44305/PK75435		
CICS_S_TRAN_T_11	DRLTC803	UK44305/PK75435		
CICS Transaction and Unit-of-Work Analysis	Purge	CICSBTS_T_TRAN_T	DRLTC901	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
		CICSCHN_T_TRAN_T	DRLTC901	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
		CICSDOC_T_TRAN_T	DRLTC901	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
		CICSWEB_T_TRAN_T	DRLTC901	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
		CICS_T_TRAN_T	DRLTC901	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
	Record	SMF_110_1	DRLRS110	UK44305/PK75435
		SMF_110_1_C	DRLRS110	UK44305/PK75435
		SMF_110_1_CO	DRLRS110	UK44305/PK75435
	Update	SMF_CICS_T	DRLRS110	UK44305/PK75435
		CICSBTS_T_TRAN_T	DRLTC901	UK44305/PK75435
		CICSCHN_T_TRAN_T	DRLTC901	UK44305/PK75435
		CICSDOC_T_TRAN_T	DRLTC901	UK44305/PK75435
	CICSWEB_T_TRAN_T	DRLTC901	UK44305/PK75435	
CICS_T_TRAN_T1	DRLTC901	UK44305/PK75435		

CICS Performance feature objects modified by migration from 1.8.0

Data Set objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Data Set	Table	VSAM_ACTIVITY_D	DRLTDS02	UK44737/PK79882
		VSAM_ACTIVITY_M	DRLTDS02	UK44738/PK79882
		VSAM_ACTIVITY_T	DRLTDS02	UK44737/PK79882

DB2 objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2	Record	SMF_100_0	DRLRS100	UK36465/PK61570
			DRLRS100	UK36467/PK61570
			DRLRS101	UK34301/PK58831
		SMF_100_1	DRLRS100	UK34305/PK58831
			DRLRS100	UK36465/PK61570
			DRLRS101	UK36467/PK61570
		SMF_100_2	DRLRS100	UK36465/PK61570
			DRLRS100	UK36467/PK61570
			DRLRS100	UK36465/PK61570
		SMF_100_3	DRLRS100	UK36465/PK61570
			DRLRS100	UK36467/PK61570
			DRLRS101	UK31701/PK53572
SMF_101	DRLRS101	UK31703/PK53572		
	DRLRS101	UK31704/PK53572		
	DRLRS101	UK31705/PK53572		
SMF_101_1	DRLRS101	UK31706/PK53572		
	DRLRS101	UK31707/PK53572		
	DRLRS101	UK31708/PK53572		
SMF_101_1	DRLRS101	UK31718/PK53572		
	DRLRS101	UK36465/PK61570		
	DRLRS101	UK36467/PK61570		
SMF_101_1	DRLRS101	UK39051/PK70295		
	DRLRS101	UK31701/PK53572		
	DRLRS101	UK31703/PK53572		
SMF_101_1	DRLRS101	UK31704/PK53572		
	DRLRS101	UK31705/PK53572		
	DRLRS101	UK31706/PK53572		
SMF_101_1	DRLRS101	UK31707/PK53572		
	DRLRS101	UK31708/PK53572		
	DRLRS101	UK31718/PK53572		
SMF_102	DRLRS102	UK39051/PK70295		
	DRLRS102	UK36465/PK61570		
	DRLRS102	UK36467/PK61570		

DB2 objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2 (continue)	Table	DB2_ACCUMACC	DRLTD2PL	UK43528/PK74556
		DB2_APPLICATION_H	DRLTD2A	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570
		DB2_APPLICATION_W	DRLTD2A	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570
		DB2_APPL_DIST_H	DRLTD2DA	UK36465/PK61570 UK36467/PK61570
		DB2_APPL_DIST_W	DRLTD2DA	UK36465/PK61570 UK36467/PK61570
		DB2_BP_SHARING_T	DRLTD2BS	UK36465/PK61570 UK36467/PK61570
		DB2_BUFFER_POOL_T	DRLTD2BP	UK36465/PK61570 UK36467/PK61570
		DB2_DATABASE_T	DRLTD2D	UK36465/PK61570 UK36467/PK61570
		DB2_LOCK_SHARING	DRLTD2SH	UK34301/PK58831 UK34305/PK58831
		DB2_PACKAGE_D	DRLTD2PU	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570
		DB2_PACKAGE_H	DRLTD2PK	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570
		DB2_PACKAGE_W	DRLTD2PU	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570
		DB2_SYSTEM_DIST_T	DRLTD2DS	UK36465/PK61570 UK36467/PK61570
		DB2_SYSTEM_T	DRLTD2S	UK36465/PK61570 UK36467/PK61570
		DB2_SYS_PARAMETER	DRLTD2SP	UK36465/PK61570 UK36467/PK61570
		DB2_TRANSACTION_D	DRLTD2T	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570
		DB2_TRANSACTION_W	DRLTD2T	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570
		DB2_TRAN_DIST_D	DRLTD2DT	UK36465/PK61570 UK36467/PK61570
		DB2_TRAN_DIST_W	DRLTD2DT	UK36465/PK61570 UK36467/PK61570
		DB2_USER_APPL_H	DRLTD2UA	UK32437/PK52681

DB2 objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF		
DB2 (continue)	Table (continued)	DB2_USER_APPL_W	DRLTD2UA	UK32439/PK52681 UK36465/PK61570 UK36467/PK61570		
		DB2_USER_AP_DIST_H	DRLTD2DP	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570		
		DB2_USER_AP_DIST_W	DRLTD2DP	UK36465/PK61570 UK36467/PK61570		
		DB2_USER_DIST_D	DRLTD2DU	UK36465/PK61570 UK36467/PK61570		
		DB2_USER_DIST_H	DRLTD2DA	UK36465/PK61570 UK36467/PK61570		
		DB2_USER_DIST_W	DRLTD2DU	UK36465/PK61570 UK36467/PK61570		
		DB2_USER_TRAN_D	DRLTD2UT	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570		
		DB2_USER_TRAN_H	DRLTD2BA	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570		
		DB2_USER_TRAN_W	DRLTD2UT	UK32437/PK52681 UK32439/PK52681 UK36465/PK61570 UK36467/PK61570		
		DB2_US_TRAN_SHAR_H	DRLTD2TS	UK36465/PK61570 UK36467/PK61570		
		DB2 (continue)	Tablespace	DRLSDB00-16	DRLSDBNN	UK36465/PK61570 UK36467/PK61570

DB2 objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2 (continue)	Update	DB2ACCUMAC	DRLTD2PL	UK43528/PK74556
		DB2APPL_101_H	DRLTD2A	UK32437/PK52681
				UK32439/PK52681
		DB2APPL_101_W	DRLTD2A	UK32437/PK52681
				UK32439/PK52681
		DB2DBST_100_1	DRLTD2D	UK36465/PK61570
				UK36467/PK61570
		DB2PACK_101_D	DRLTD2PU	UK32437/PK52681
				UK32439/PK52681
		DB2PACK_101_H	DRLTD2PU	UK32437/PK52681
				UK32439/PK52681
				UK36465/PK61570
				UK36467/PK61570
				UK43528/PK74556
				UK45214/PK81485
		DB2PACK_101_H1	DRLTD2PU	UK32437/PK52681
				UK32439/PK52681
				UK36465/PK61570
				UK36467/PK61570
				UK43528/PK74556
				UK45214/PK81485
		DB2PACK_101_W	DRLTD2PU	UK32437/PK52681
				UK32439/PK52681
		DB2POOL_100_1_T31	DRLTD2BP	UK36465/PK61570
				UK36467/PK61570
		DB2SYSDS_100_0_T	DRLTD2DS	UK36465/PK61570
				UK36467/PK61570
		DB2SYSP_102_DDF	DRLTD2SP	UK36465/PK61570
		UK36467/PK61570		
DB2SYSP_102_SP	DRLTD2SP	UK36465/PK61570		
		UK36467/PK61570		
DB2SYST_100_0	DRLTD2S	UK36465/PK61570		
		UK36467/PK61570		
DB2TRAN_101_D	DRLTD2T	UK32437/PK52681		
		UK32439/PK52681		
DB2TRAN_101_W	DRLTD2T	UK32437/PK52681		
		UK32439/PK52681		
DB2UAPPL_101_H	DRLTD2UA	UK32437/PK52681		
		UK32439/PK52681		
DB2UAPPL_101_W	DRLTD2UA	UK32437/PK52681		
		UK32439/PK52681		
DB2UTRAN_101_H	DRLTD2UT	UK36465/PK61570		
		UK36467/PK61570		
DB2UTRAN_101_H_B	DRLTD2UT	UK32437/PK52681		
		UK32439/PK52681		
DB2UTRAN_101_H_B31	DRLTD2UT	UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
		UK31707/PK53572		
		UK31708/PK53572		

DB2 objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DB2 (continue)	Update (continued)	DB2UTRAN_101_H_B81	DRLTD2UT	UK31718/PK53572 UK36465/PK61570 UK36467/PK61570 UK36465/PK61570 UK36467/PK61570
		DB2UTRAN_101_W	DRLTD2UT	UK32437/PK52681 UK32439/PK52681
		DB2UTR_DS_101_H	DRLTD2DU	UK36465/PK61570 UK36467/PK61570
		DB2_BPATTR_SHR	DRLTD2BS	UK36465/PK61570 UK36467/PK61570
		DB2_BP_SHARING	DRLTD2BS	UK36465/PK61570 UK36467/PK61570
		DB2_LOCK_SHARING	DRLTD2SH	UK34301/PK58831 UK34305/PK58831
		DB2_UT_GBP101_DS_H	DRLTD2TS	UK36465/PK61570 UK36467/PK61570
		DB2_UT_LCK101_DS_H	DRLTD2TS	UK36465/PK61570 UK36467/PK61570

DFSMS objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
DFSMS	Purge	DFSMS_LAST_RUN	DRLUDFLR	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435

Distributed Performance feature objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
UNIX Accounting	Report	XACCT07	DRLOXACC	UK34009/PK57882 UK34028/PK57882 UK34029/PK57882 UK34030/PK57882 UK34031/PK57882 UK34032/PK57882 UK34033/PK57882

IMS objects modified by migration from 1.8.0

IMS objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
IMS CSQ Collect	Update	CSQV810SYSTH	DRLUI81C	UK37770/PK62614 UK37774/PK62614
		CSQV810SYSTLH	DRLUI81C	UK37770/PK62614 UK37774/PK62614
		CSQV810TRANH	DRLUI81C	UK37770/PK62614 UK37774/PK62614
		CSQV810TRANLH	DRLUI81C	UK37770/PK62614 UK37774/PK62614
		CSQV810TRNQUEQ	DRLUI81Q	UK37770/PK62614 UK37774/PK62614
		CSQV910SYSTH	DRLUI91Y	UK37770/PK62614 UK37774/PK62614
		CSQV910SYSTH2	DRLUI91S	UK37770/PK62614 UK37774/PK62614
		CSQV910SYSTLH	DRLUI91Y	UK37770/PK62614 UK37774/PK62614
		CSQV910SYSTLH2	DRLUI91S	UK37770/PK62614 UK37774/PK62614
		CSQV910TRANH	DRLUI91C	UK37770/PK62614 UK37774/PK62614
		CSQV910TRANLH	DRLUI91C	UK37770/PK62614 UK37774/PK62614
		CSQV910TRNQUEQ	DRLUI91Q	UK37770/PK62614 UK37774/PK62614
		CSQVA10SYSTH	DRLUIA1Y	UK37770/PK62614 UK37774/PK62614
		CSQVA10SYSTH2	DRLUIA1S	UK37770/PK62614 UK37774/PK62614
		CSQVA10SYSTLH	DRLUIA1Y	UK37770/PK62614 UK37774/PK62614
		CSQVA10SYSTLH2	DRLUIA1S	UK37770/PK62614 UK37774/PK62614
		CSQVA10TRANH	DRLUIA1C	UK37770/PK62614 UK37774/PK62614
		CSQVA10TRANLH	DRLUIA1C	UK37770/PK62614 UK37774/PK62614
		CSQVA10TRNQUEQ	DRLUIA1Q	UK37770/PK62614 UK37774/PK62614

Internet connection Secure Server objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Internet connection Secure Server	Record	INT_103_01	DRLRS103	UK35836/PK63715 UK35840/PK63715
		INT_103_02	DRLRS103	UK35836/PK63715 UK35840/PK63715

Internet connection Secure Server objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Internet connection Secure Server	Table	INTCON_CONF	DRLTINTE	UK35836/PK63715
		INTCON_PERFT_D	DRLTINTE	UK35840/PK63715
		INTCON_PERF_D	DRLTINTE	UK35836/PK63715
		INTCON_PERF_H	DRLTINTE	UK35840/PK63715
		INTCON_PERF_M	DRLTINTE	UK35836/PK63715
	Update	INTCON_PERFX_D	DRLTINTE	UK35840/PK63715

Monitoring Agent objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Monitoring Agent	View	CICS_TRANSACT_DKV	DRLVAG01	UK36238/PK64802
		CICS_TRANSACT_HKV	DRLVAG01	UK36238/PK64802
		CICS_TRANSACT_WKV	DRLVAG01	UK36238/PK64802
		DB2_TRANSACT_DKV	DRLVAG02	UK36238/PK64802
		DB2_TRANSACT_WKV	DRLVAG02	UK36238/PK64802
		DFSMS_VOLUME_DKV	DRLVAG08	UK36238/PK64802
		DFSMS_VOLUME_MKV	DRLVAG08	UK36238/PK64802
		IMS_TRAN_DKV	DRLVAG04	UK36238/PK64802
		IMS_TRAN_HKV	DRLVAG04	UK36238/PK64802
		IMS_TRAN_WKV	DRLVAG04	UK36238/PK64802
		MVSAC_JOBADDR1_DKV	DRLVAG05	UK36238/PK64802
		MVSAC_JOBADDR1_HKV	DRLVAG05	UK36238/PK64802
		MVSAC_JOBADDR1_MKV	DRLVAG05	UK36238/PK64802
		MVSPM_DEVICE_HKV	DRLVAG03	UK36238/PK64802
		MVSPM_LPAR_HKV	DRLVAG06	UK36238/PK64802
		MVS_LPAR_DKV	DRLVAG06	UK36238/PK64802
		MVS_LPAR_MKV	DRLVAG06	UK36238/PK64802
		MVS_SYSTEM_DKV	DRLVAG07	UK36238/PK64802
		MVS_SYSTEM_HKV	DRLVAG07	UK36238/PK64802
MVS_SYSTEM_MKV	DRLVAG07	UK36238/PK64802		

Network objects modified by migration from 1.8.0

Network objects modified by migration from 1.8.0

Network	Object type	Object	Member name	APAR/PTF
Network NPM Transit Time component	Report	NWNT08	DRLONT	UK34009/PK57882
				UK34028/PK57882
				UK34029/PK57882
				UK34030/PK57882
		NWNT10	DRLONT	UK34031/PK57882
				UK34032/PK57882
				UK34033/PK57882
				UK34009/PK57882
		NWNT12	DRLONT	UK34028/PK57882
				UK34029/PK57882
				UK34030/PK57882
				UK34031/PK57882
	NWNT14	DRLONT	UK34032/PK57882	
			UK34033/PK57882	
			UK34009/PK57882	
			UK34028/PK57882	
				UK34029/PK57882
				UK34030/PK57882
				UK34031/PK57882
				UK34032/PK57882
				UK34033/PK57882

Resource Accounting objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
Resource Accounting	Lookup table	RAFABATCH	DRLTBAT	UK35680/PK60295	
		RAFASTC	DRLTSTC	UK35680/PK60295	
		RAFATSO	DRLTTSO	UK35680/PK60295	
	Purge	RAFADDRLOG		DRLTSTC	UK43218/PK77717
					UK43227/PK77717
					UK43228/PK77717
		RAFJOBLOG		DRLTBAT	UK43229/PK77717
					UK44310/PK75435
					UK43218/PK77717
					UK43227/PK77717
RAFMQS RAFSESLOG		DRLTRMQS DRLTTSO	UK43228/PK77717		
			UK43229/PK77717		
			UK44310/PK75435		
RAFWAS		DRLTRWAS	UK43218/PK77717		
			UK43227/PK77717		
			UK43228/PK77717		
			UK43229/PK77717		
			UK44310/PK75435		
			UK32320/PK56964		

Resource Accounting objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Resource Accounting (continued)	Record	MQS_116	DRLRS116	UK32320/PK56964
		MQS_116_1	DRLRS116	UK32320/PK56964
		MQS_116_2	DRLRS116	UK32320/PK56964
		MQS_120_1	DRLRS121	UK32320/PK56964
		SMF_006	DRLRS006	UK32666/PK58352
				UK37352/PK66844
		SMF_025	DRLRS025	UK32666/PK58352
				UK37352/PK66844
		SMF_026	DRLRS026	UK32666/PK58352
				UK37352/PK66844
		SMF_030	DRLRS030	UK32666/PK58352
				UK37352/PK66844
		SMF_030_2_3_X	DRLRS030	UK32666/PK58352
				UK37352/PK66844
		SMF_030_4_X	DRLRS030	UK32666/PK58352
			UK37352/PK66844	
	SMF_030_OMVS_X	DRLRS030	UK32666/PK58352	
			UK37352/PK66844	
	SMF_030_X	DRLRS030	UK32666/PK58352	
			UK37352/PK66844	
	SMF_101	DRLRS101	UK32666/PK58352	
			UK37352/PK66844	
	SMF_101_1	DRLRS101	UK32666/PK58352	
			UK37352/PK66844	
	Table	RAFADDRLOG RAFAMQS RAFAWAS RAFBATCH	DRLTSTC	UK35680/PK60295
			DRLTRMQS	UK32320/PK56964
			DRLTRWAS	UK32320/PK56964
			DRLTBAT	UK41986/PK75140
		RAFCICS	DRLTCICS	UK41991/PK75140
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
			UK31706/PK53572	
			UK31707/PK53572	
			UK31708/PK53572	
RAFJOBLOG	DRLTBAT	UK31718/PK53572		
		UK35680/PK60295		
		UK41986/PK75140		
		UK41991/PK75140		
RAFMQS RAFSESLOG RAFWAS	DRLTRMQS	UK32320/PK56964		
	DRLTTSO	UK35680/PK60295		
	DRLTRWAS	UK32320/PK56964		
Tablespace	DRLSAMQ DRLSAWAS DRLSMQ2	DRLSRMQ	UK32320/PK56964	
		DRLSRWAS	UK32320/PK56964	
		DRLSRMQ	UK32320/PK56964	

Resource Accounting objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Resource Accounting (continued)	Update	RAFCICS_UP	DRLUCICS	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		RAFCICS_UP1	DRLUCICS	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK44305/PK75435
		RAFCICS_USSM	DRLUCICS	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		RAFDB2_UP	DRLUDB2	UK36465/PK61570 UK36467/PK61570
		RAFJOB_SMF30	DRLUBAT	UK41986/PK75140 UK41991/PK75140
		RAFMQS	DRLTRMQS	UK32320/PK56964
		RAFSES_SMF30_A	DRLUTSO	UK35680/PK60295
		RAFWAS	DRLTRWAS	UK32320/PK56964
		RAFWAS_JVM	DRLTRWAS	UK32320/PK56964

OS/400 objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
OS/400 Performance	Record	OS400_PM_DISK_52	DRLR4PDS	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572
		OS400_PM_POOL_53	DRLR4PPO	UK31718/PK53572 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572
		OS400_PM_SYS	DRLR4PSY	UK31718/PK53572 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
	Report	OS400P01	DRLO4PRF	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572
		OS400P06	DRLO4PRF	UK31718/PK53572 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572

RACF objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
RACF	Report	RACF01	DRLORACF	UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
		RACF02	DRLORACF	UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
		RACF03	DRLORACF	UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
		RACF04	DRLORACF	UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
RACF05	DRLORACF	UK31706/PK53572		
		UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
RACF06	DRLORACF	UK31705/PK53572		
		UK31706/PK53572		
		UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
		UK31701/PK53572		
		UK31703/PK53572		
RACF07	DRLORACF	UK31704/PK53572		
		UK31705/PK53572		
		UK31701/PK53572		
		UK31703/PK53572		

RACF objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
RACF (continued)	Report (continued)	RACF08	DRLORACF	UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
		RACF09	DRLORACF	UK31708/PK53572
				UK31718/PK53572
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
		RACF10	DRLORACF	UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572

TCP/IP for z/OS objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
TCP/IP for z/OS	Record	SMF_119_2	DRLRS119	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_119_21	DRLRS119	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_119_3	DRLRS119	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_119_5 SMF_119_70	DRLRS119 DRLRS119	UK40889/PK73176 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_119_72	DRLRS119	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_119_73	DRLRS119	UK40309/PK71337 UK40312/PK71337
		SMF_119_74	DRLRS119	UK40309/PK71337 UK40312/PK71337
		SMF_119_75_80	DRLRS119	UK40309/PK71337 UK40312/PK71337
		SMF_119_8	DRLRS119	UK40889/PK73176

Tivoli Performance Modeler objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Tivoli Performance Modeler	Log	SMF	DRLLSMF	UK37348/PK64961
	Purge	TPM_LPAR_T TPM_WORKLOAD_T	DRLUTPMZ DRLUTPMZ	UK37348/PK64961 UK37348/PK64961
	Record	SMF_070 SMF_070_2 SMF_070_2_X SMF_070_X SMF_072_1 SMF_072_3	DRLRS070 DRLRS070 DRLRS070 DRLRS070 DRLRS072 DRLRS072	UK37348/PK64961 UK37348/PK64961 UK37348/PK64961 UK37348/PK64961 UK37348/PK64961 UK37348/PK64961
	Table	TPM_LPAR_T TPM_WORKLOAD_T	DRLTTPMZ DRLTTPMZ	UK37348/PK64961 UK37348/PK64961
	Tablespace	DRLSTPM1 DRLSTPM2	DRLSTPMZ DRLSTPMZ	UK37348/PK64961 UK37348/PK64961
	Update	TPMLPR_070_T TPMWGL_072_T	DRLUTPMZ DRLUTPMZ	UK37348/PK64961 UK37348/PK64961

TWS for z/OS objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
TWS for z/OS	Record	OPC_03_3	DRLROP03	UK32573/PK56736
		OPC_03_C	DRLROP03	UK32575/PK56736
		OPC_03_P	DRLROP03	UK32575/PK56736
		OPC_23	DRLROP23	UK32573/PK56736
		OPC_24	DRLROP24	UK32575/PK56736
		OPC_27	DRLROP27	UK32573/PK56736

WebSphere Message Broker objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
Message Broker	Update	WMBMSG_117_W WMBNOD_117_W WMBTHD_117_W	DRLTWMBM DRLTWMBN DRLTWMBT	UK41619/PK74898 UK41619/PK74898 UK41619/PK74898

WebSphere MQ (MQSeries) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MQSeries	Table	MQS_ACCNT_CICS_D	DRLTMQAC	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_CICS_M	DRLTMQAC	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_CICS_T	DRLTMQAC	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_D	DRLTMQAC	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_IMS_D	DRLTMQAC	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_IMS_M	DRLTMQAC	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_IMS_T	DRLTMQAC	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_M	DRLTMQAC	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_QUEUE_D	DRLTMQA1	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_QUEUE_M	DRLTMQA1	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_QUEUE_T	DRLTMQA1	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_T	DRLTMQAC	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_TASK_D	DRLTMQA1	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_TASK_M	DRLTMQA1	UK40852/PK71389
				UK40856/PK71389
		MQS_ACCNT_TASK_T	DRLTMQA1	UK40852/PK71389
				UK40856/PK71389
MQS_BUFFER_D	DRLTMQST	UK40852/PK71389		
		UK40856/PK71389		
MQS_BUFFER_M	DRLTMQST	UK40852/PK71389		
		UK40856/PK71389		
MQS_BUFFER_T	DRLTMQST	UK40852/PK71389		
		UK40856/PK71389		
MQS_COUPL_FAC_D	DRLTMQS2	UK40852/PK71389		
		UK40856/PK71389		
MQS_COUPL_FAC_M	DRLTMQS2	UK40852/PK71389		
		UK40856/PK71389		
MQS_COUPL_FAC_T	DRLTMQS2	UK40852/PK71389		
		UK40856/PK71389		
MQS_DATA_D	DRLTMQST	UK40852/PK71389		
		UK40856/PK71389		
MQS_DATA_M	DRLTMQST	UK40852/PK71389		
		UK40856/PK71389		
MQS_DATA_T	DRLTMQST	UK40852/PK71389		
		UK40856/PK71389		
MQS_DB2_D	DRLTMQS2	UK40852/PK71389		
		UK40856/PK71389		
MQS_DB2_M	DRLTMQS2	UK40852/PK71389		
		UK40856/PK71389		

WebSphere MQ (MQSeries) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MQSeries (continued)	Table (continued)	MQS_DB2_T	DRLTMQS2	UK40852/PK71389
		MQS_LOCK_D	DRLTMQS2	UK40856/PK71389
		MQS_LOCK_M	DRLTMQS2	UK40852/PK71389
		MQS_LOCK_T	DRLTMQS2	UK40856/PK71389
		MQS_LOCKMGR_D	DRLTMQSY	UK40852/PK71389
		MQS_LOCKMGR_M	DRLTMQSY	UK40856/PK71389
		MQS_LOCKMGR_T	DRLTMQSY	UK40852/PK71389
		MQS_MSG_D	DRLTMQST	UK40856/PK71389
		MQS_MSG_M	DRLTMQST	UK40852/PK71389
		MQS_MSG_T	DRLTMQST	UK40856/PK71389
		MQS_STORAGE_D	DRLTMQSY	UK40852/PK71389
		MQS_STORAGE_M	DRLTMQSY	UK40856/PK71389
		MQS_STORAGE_T	DRLTMQSY	UK40852/PK71389
				UK40856/PK71389

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS	Record	SMF_007	DRLRS007	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_021	DRLRS021	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_026	DRLRS026	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		SMF_030	DRLRS030	UK40309/PK71337 UK40312/PK71337
		SMF_030_2_3_X	DRLRS030	UK40309/PK71337 UK40312/PK71337
		SMF_030_4_X	DRLRS030	UK40309/PK71337 UK40312/PK71337
		SMF_030_OMVS_X	DRLRS030	UK40309/PK71337 UK40312/PK71337
		SMF_030_X	DRLRS030	UK40309/PK71337 UK40312/PK71337
		SMF_070	DRLRS070	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		SMF_070_2	DRLRS070	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_070_2_X	DRLRS070	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_070_X	DRLRS070	UK35362/PK55987 UK35366/PK55987

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Record (continued)	SMF_071	DRLRS071	UK35367/PK55987 UK35368/PK55987 UK40309/PK71337
		SMF_072_3	DRLRS072	UK40312/PK71337 UK40309/PK71337 UK40312/PK71337
		SMF_078_3	DRLRS078	UK42944/PK76579 UK35362/PK55987 UK35366/PK55987 UK35367/PK55987
		SMF_085	DRLRS085	UK35368/PK55987 UK40309/PK71337
		SMF_094	DRLRS094	UK40312/PK71337 UK44859/PK81142
		Report	ALL DB2 (JAPANESE)	DRLODB2
		MVS108	DRLOMVS4	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS109	DRLOMVS4	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS121	DRLOMVS5	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS122	DRLOMVS5	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS71	DRLOMVS	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Table	MVS_ACCNT23_PGM_T	DRLTMVAP	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK35680/PK60295
		MVS_ACCNT_PGM_T	DRLTMVAP	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK35680/PK60295
		MVS_ADDRDISTR_D	DRLTMVAD	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK43085/PK77990
		MVS_ADDRDISTR_H	DRLTMVAD	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK43085/PK77990
		MVS_ADDRDISTR_M	DRLTMVAD	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK43085/PK77990
		MVS_ADDRSPACE_D	DRLTMVAS	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Table (continued)	MVS_ADDRSPACE_M	DRLTMVAS	UK31718/PK53572
				UK43085/PK77990
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK43085/PK77990
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
		MVS_ADDRSPACE_T	DRLTMVAS	UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK35680/PK60295
				UK41986/PK75140
				UK41991/PK75140
				UK43085/PK77990
				UK32437/PK52681
				UK32439/PK52681
				UK32437/PK52681
				UK32439/PK52681
				MVS_LPAR_D
UK32439/PK52681				
MVS_LPAR_M	DRLTMVLP	UK32437/PK52681		
		UK32439/PK52681		
MVS_OAM_OSMC_D	DRLTMVOC	UK32439/PK52681		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
MVS_OAM_OSMC_M	DRLTMVOC	UK35368/PK55987		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
MVS_OAM_OSREQ_T	DRLTMVOQ	UK35368/PK55987		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
MVS_PROGRAM_M	DRLTMVPR	UK35368/PK55987		
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
		UK31707/PK53572		
MVS_SYSTEM_D	DRLTMVSY	UK31708/PK53572		
		UK43732/PK78103		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Table (continued)	MVS_SYSTEM_H	DRLTMVSY	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_SYSTEM_M	DRLTMVSY	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_TAPE_M	DRLTMVTA	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_WORKLOAD2_D	DRLTMVW2	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_WORKLOAD2_H	DRLTMVW2	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_WORKLOAD2_M	DRLTMVW2	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Update	MVSADDR_30_5_T	DRLTMVAS	UK41986/PK75140
		MVSDISTR_30_H5	DRLTMVAD	UK41991/PK75140
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
				UK31718/PK53572
				UK43732/PK78103
				UK41490/PK73675
				UK41490/PK73675
				UK41490/PK73675
				UK41617/PK74091
				UK41490/PK73675
				UK41490/PK73675
				UK41490/PK73675
				UK39445/PK70657
				UK39446/PK70657
				UK39448/PK70657
				UK39452/PK70657
				UK41490/PK73675
				UK41490/PK73675
				UK41490/PK73675
				UK35362/PK55987
				UK35366/PK55987
				UK35367/PK55987
				UK35368/PK55987
				UK35362/PK55987
				UK35366/PK55987
				UK35367/PK55987
				UK35368/PK55987
				UK35362/PK55987
				UK35366/PK55987
				UK35367/PK55987
				UK35368/PK55987
				UK35527/PK61871
				UK41490/PK73675
				UK35680/PK60295
		UK35680/PK60295		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
		UK35368/PK55987		
		UK41490/PK73675		
		UK32437/PK52681		
		UK32439/PK52681		
		UK41490/PK73675		
		UK41490/PK73675		
		UK32437/PK52681		

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (continued)	Update (continued)	MVS_LPAR_ZOS_D	DRLTMVLP	UK32439/PK52681 UK32437/PK52681 UK32439/PK52681 UK41490/PK73675
		MVS_LPAR_ZOS_WLM	DRLTMVLP	UK32437/PK52681 UK32439/PK52681
		MVS_LPAR_ZOS_WLM_D MVS_OAM_OSMC_M	DRLTMVLP DRLUMVOC	UK41490/PK73675 UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_OAM_OSREQ_T	DRLUMVOQ	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987
		MVS_OAM_ZOSMC_D	DRLUMVOC	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987
		MVS_WORKLOAD2_D	DRLTMVW2	UK35368/PK55987 UK35362/PK55987 UK35366/PK55987 UK35367/PK55987
		MVS_WORKLOAD2_H MVS_WORKLOAD2_M	DRLTMVW2 DRLTMVW2	UK35368/PK55987 UK41490/PK73675 UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
	View	MVS_LPAR_DV	DRLTMVLP	UK32437/PK52681 UK32439/PK52681
		MVS_LPAR_MV	DRLTMVLP	UK32437/PK52681 UK32439/PK52681
		MVS_WORKLOAD2_DV2	DRLVMVWA	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_WORKLOAD2_DV4	DRLVMVWB	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_WORKLOAD2_HV2	DRLVMVWA	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_WORKLOAD2_HV4	DRLVMVWB	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_WORKLOAD2_MV2	DRLVMVWA	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVS_WORKLOAD2_MV4	DRLVMVWB	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS Availability	Record	SMF_070	DRLRS070	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
MVS (z/OS) Interval Job/Step Accounting	Purge	MVSAC_JOBSTEP_T	DRLTJSTE	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
	Record	SMF_014	DRLRS014	UK40309/PK71337 UK40312/PK71337
		SMF_015	DRLRS015	UK40309/PK71337 UK40312/PK71337
		SMF_064	DRLRS064	UK40309/PK71337 UK40312/PK71337
Report	MVSACST1	DRLOJAC	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572	

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (z/OS) Interval Job/Step Accounting (continued)	Table	MVSAC_JOBADDR1_D	DRLTJAC1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK43085/PK77990
		MVSAC_JOBADDR1_H	DRLTJAC1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK43085/PK77990
		MVSAC_JOBADDR1_M	DRLTJAC1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK43085/PK77990
		MVSAC_JOBADDR1_T	DRLTJAC1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK43085/PK77990
		MVSAC_JOBADDR2_D	DRLTJAC2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (z/OS) Interval Job/Step Accounting (continued)	Table (continued)	MVSAC_JOBADDR2_H	DRLTJAC2	UK31718/PK53572 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		MVSAC_JOBADDR2_M	DRLTJAC2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		MVSAC_JOBADDR2_T	DRLTJAC2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		MVSAC_JOBSTEP_T	DRLTJSTE	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK33793/PK60443

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (z/OS) Interval Job/Step Accounting (continued)	Update	MVSACJOB_14_T	DRLUJAC2	UK31701/PK53572 UK31702/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK32570/PK58422 UK32740/PK57226
		MVSACJOB_15_T	DRLUJAC2	UK31701/PK53572 UK31702/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK32570/PK58422 UK32740/PK57226
		MVSACJOB_30_5_T	DRLUJAC1	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK33793/PK60443 UK41986/PK75140 UK41991/PK75140
		MVSACJOB_30_T5	DRLUJAC1	UK41986/PK75140 UK41991/PK75140
		MVSACJOB_64_T	DRLUJAC2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		MVSACSTP_30_4_E_T	DRLUJSTE	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK41983/PK75856

z/OS System (MVS) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVS (z/OS) Interval Job/Step Accounting (continued)	Update (continued)	MVSACSTP_30_4_T	DRLUJSTE	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK33793/PK60443 UK41983/PK75856
	View	MVSAC_JOBADDR1_TV	DRLTJACV	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK33793/PK60443 UK41986/PK75140 UK41991/PK75140 UK43085/PK77990
		MVSAC_JOBADDR_TV	DRLTJACV	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK33793/PK60443 UK43085/PK77990
		MVSAC_JOBSTEP_TV	DRLTJSTV	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK33793/PK60443

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM	Record	SMF_042_15	DRLRSY42	UK40309/PK71337
		SMF_042_16	DRLRSY42	UK40312/PK71337
		SMF_042_4	DRLRS042	UK40309/PK71337
		SMF_070	DRLRS070	UK40312/PK71337
		SMF_070_2	DRLRS070	UK35362/PK55987
				UK35366/PK55987
				UK35367/PK55987
				UK35368/PK55987
				UK31701/PK53572
				UK31703/PK53572
				UK31704/PK53572
				UK31705/PK53572
				UK31706/PK53572
				UK31707/PK53572
				UK31708/PK53572
		UK31718/PK53572		
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
		UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
		UK35368/PK55987		
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
		UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
		UK31701/PK53572		
		UK31703/PK53572		
		UK31704/PK53572		
		UK31705/PK53572		
		UK31706/PK53572		
		UK31707/PK53572		
		UK31708/PK53572		
		UK31718/PK53572		
		UK40309/PK71337		
		UK40312/PK71337		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
		UK35368/PK55987		

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Record (continued)	SMF_074_2	DRLRS074	UK40309/PK71337 UK40312/PK71337
				UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_074_4	DRLRSX74	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		SMF_078_1	DRLRS078	UK40309/PK71337 UK40312/PK71337
		SMF_078_2	DRLRS078	UK40309/PK71337 UK40312/PK71337
		SMF_078_2_X	DRLRS078	UK40309/PK71337 UK40312/PK71337
		SMF_078_3	DRLRS078	UK40309/PK71337 UK40312/PK71337
		SMF_079	DRLRS079	UK40309/PK71337 UK40312/PK71337
		SMF_092	DRLRS092	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Report	ALL DB2 (JAPANESE)	DRLODB2	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		MVSPM01	DRLOMP	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572
		MVSPM02	DRLOMP4	UK32730/PK54127
		MVSPM03	DRLOMP4	UK32730/PK54127
		MVSPM04	DRLOMP5	UK32730/PK54127
		MVSPM05	DRLOMP7	UK32730/PK54127
		MVSPM06	DRLOMP4	UK32730/PK54127
		MVSPM07	DRLOMP4	UK32730/PK54127
		MVSPM08	DRLOMP4	UK32730/PK54127
		MVSPM09	DRLOMP4	UK32730/PK54127
		MVSPM0A	DRLOMP4	UK32730/PK54127
		MVSPM10	DRLOMP8	UK32730/PK54127
		MVSPM104	DRLOMP5	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVSPM11	DRLOMP8	UK32730/PK54127
		MVSPM113	DRLOMP4	UK39445/PK70657 UK39446/PK70657 UK39448/PK70657 UK39452/PK70657
		MVSPM115	DRLOMP5	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVSPM116	DRLOMP4	UK38757/PK64212 UK38761/PK64212 UK38762/PK64212 UK38763/PK64212
		MVSPM117	DRLOMP4	UK38757/PK64212 UK38761/PK64212 UK38762/PK64212 UK38763/PK64212
		MVSPM12	DRLOMP8	UK32730/PK54127
		MVSPM14	DRLOMP8	UK39228/PK69395 UK39229/PK69395 UK39230/PK69395
		MVSPM15	DRLOMP8	UK32730/PK54127

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF	
MVSPM (continued)	Report (continued)	MVSPM16	DRLOMP8	UK32730/PK54127	
		MVSPM17	DRLOMP8	UK32730/PK54127	
		MVSPM18	DRLOMP8	UK32730/PK54127	
		MVSPM20	DRLOMP4	UK32730/PK54127	
		MVSPM21	DRLOMP4	UK32730/PK54127	
		MVSPM22	DRLOMP4	UK32730/PK54127	
		MVSPM23	DRLOMP4	UK32730/PK54127	
		MVSPM24	DRLOMP5	UK32730/PK54127	
		MVSPM26	DRLOMP	UK31701/PK53572	
					UK31703/PK53572
					UK31704/PK53572
					UK31705/PK53572
					UK31706/PK53572
					UK31707/PK53572
					UK31708/PK53572
					UK31718/PK53572
					DRLOMP5
				MVSPM27	UK32730/PK54127
				MVSPM28	DRLOMP5
					UK32730/PK54127
					DRLOMP
					UK31701/PK53572
					UK31703/PK53572
					UK31704/PK53572
					UK31705/PK53572
					UK31706/PK53572
					UK31707/PK53572
					UK31708/PK53572
					UK31718/PK53572
					DRLOMP5
				MVSPM29	UK32730/PK54127
				MVSPM30	DRLOMP5
			DRLOMP4		
			UK31727/PK53524		
			UK31728/PK53524		
			UK32730/PK54127		
		MVSPM31	DRLOMP		
			UK31701/PK53572		
			UK31703/PK53572		
			UK31704/PK53572		
			UK31705/PK53572		
			UK31706/PK53572		
			UK31707/PK53572		
			UK31708/PK53572		
			UK31718/PK53572		
			DRLOMP4		
		MVSPM32	UK32730/PK54127		
		MVSPM33	DRLOMP5		
			DRLOMP5		
			UK31727/PK53524		
			UK31728/PK53524		
			UK32730/PK54127		
		MVSPM34	DRLOMP5		
		MVSPM37	DRLOMP2		
		MVSPM38	DRLOMPA		
			UK32730/PK54127		
			UK35805/PK62892		
		MVSPM39	DRLOMP7		
		MVSPM40	DRLOMP7		
		MVSPM41	DRLOMP7		
		MVSPM42	DRLOMP7		
			UK32730/PK54127		

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF		
MVSPM (continued)	Report (continued)	MVSPM43	DRLOMP7	UK32730/PK54127		
		MVSPM44	DRLOMP4	UK32730/PK54127		
		MVSPM45	DRLOMP7	UK32730/PK54127		
		MVSPM46	DRLOMP8	UK32730/PK54127		
		MVSPM47	DRLOMP8	UK32730/PK54127		
		MVSPM48	DRLOMP8	UK32730/PK54127		
		MVSPM49	DRLOMP8	UK32730/PK54127		
		MVSPM50	DRLOMP8	UK32730/PK54127		
		MVSPM51	DRLOMP8	UK32730/PK54127		
		MVSPM52	DRLOMP4	UK32730/PK54127		
		MVSPM53	DRLOMP7	UK32730/PK54127		
		MVSPM54	DRLOMP7	UK32730/PK54127		
		MVSPM55	DRLOMP4	UK32730/PK54127		
		MVSPM56	DRLOMP	UK31701/PK53572		
					UK31703/PK53572	
					UK31704/PK53572	
					UK31705/PK53572	
					UK31706/PK53572	
					UK31707/PK53572	
					UK31708/PK53572	
					UK31718/PK53572	
					UK32730/PK54127	
				MVSPM57	DRLOMP2	UK32730/PK54127
				MVSPM58	DRLOMP8	UK32730/PK54127
				MVSPM59	DRLOMP	UK31701/PK53572
						UK31703/PK53572
						UK31704/PK53572
						UK31705/PK53572
						UK31706/PK53572
						UK31707/PK53572
						UK31708/PK53572
						UK31718/PK53572
			DRLOMP8	UK32730/PK54127		
		MVSPM60	DRLOMP8	UK32730/PK54127		
		MVSPM61	DRLOMP8	UK32730/PK54127		
		MVSPM64	DRLOMP9	UK32730/PK54127		
		MVSPM65	DRLOMP9	UK32730/PK54127		
		MVSPM66	DRLOMP9	UK32730/PK54127		
		MVSPM67	DRLOMP9	UK32730/PK54127		
		MVSPM70	DRLOMP	UK31701/PK53572		
				UK31703/PK53572		
				UK31704/PK53572		
				UK31705/PK53572		
				UK31706/PK53572		
				UK31707/PK53572		
				UK31708/PK53572		
				UK31718/PK53572		
		MVSPM71	DRLOMP5	UK32730/PK54127		
		MVSPM72	DRLOMP5	UK32730/PK54127		
		MVSPM73	DRLOMP5	UK32730/PK54127		
		MVSPM74	DRLOMP5	UK32730/PK54127		
		MVSPM75	DRLOMP5	UK32730/PK54127		

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF		
MVSPM (continued)	Report (continued)	MVSPM76	DRLOMP5	UK32730/PK54127		
		MVSPM78	DRLOMP5	UK32730/PK54127		
		MVSPM79	DRLOMP5	UK32730/PK54127		
		MVSPM80	DRLOMP7	UK32730/PK54127		
		MVSPM81	DRLOMP7	UK32730/PK54127		
		MVSPM82	DRLOMP7	UK32730/PK54127		
		MVSPM83	DRLOMP7	UK32730/PK54127		
		MVSPM84	DRLOMP8	UK32730/PK54127		
		MVSPM85	DRLOMP8	UK32730/PK54127		
		MVSPM86	DRLOMP1	UK35362/PK55987		
					UK35366/PK55987	
					UK35367/PK55987	
					UK35368/PK55987	
				MVSPM89	DRLOMP1	UK35362/PK55987
						UK35366/PK55987
						UK35367/PK55987
						UK35368/PK55987
				MVSPM90	DRLOMP3	UK32730/PK54127
				MVSPM91	DRLOMP3	UK32730/PK54127
				MVSPM92	DRLOMP3	UK32730/PK54127
				MVSPM93	DRLOMP3	UK32730/PK54127
				MVSPM94	DRLOMP3	UK32730/PK54127
				MVSPM95	DRLOMP3	UK32730/PK54127
				MVSPM96	DRLOMP3	UK32730/PK54127
				MVSPM97	DRLOMP3	UK32730/PK54127
				MVSPM98	DRLOMP7	UK32730/PK54127
				MVSPM99	DRLOMPA	UK32730/PK54127
						UK35805/PK62892
				MVSPMM1	DRLOMP4	UK32730/PK54127
				MVSPMM2	DRLOMP4	UK32730/PK54127
				MVSPMM3	DRLOMP4	UK32730/PK54127
				MVSPMZ2	DRLOMP7	UK35362/PK55987
				UK35366/PK55987		
				UK35367/PK55987		
				UK35368/PK55987		

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Table	MVSPM_APPL_H	DRLTMPAP	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK43085/PK77990
		MVSPM_CF_PROC_H	DRLTMPCF	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVSPM_CF_REQUEST_H	DRLTMPCR	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVSPM_CHANNEL_H MVSPM_CPU_H	DRLTMPCH DRLTMPCU	UK35805/PK62892 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK38757/PK64212 UK38761/PK64212 UK38762/PK64212 UK38763/PK64212
		MVSPM_DEVICE_H	DRLTMPDE	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987 UK42947/PK76378 UK42951/PK76378 UK42952/PK76378 UK42953/PK76378
		MVSPM_LCU_IO_H	DRLTMPCI	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVSPM_LPAR_H	DRLTMPLP	UK32437/PK52681 UK32439/PK52681
		MVSPM_PAGING_H	DRLTMPPG	UK38757/PK64212 UK38761/PK64212 UK38762/PK64212 UK38763/PK64212 UK39228/PK69395 UK39229/PK69395 UK39230/PK69395 UK42947/PK76378

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Table (continued)			UK42951/PK76378
		MVSPM_SYSTEM_H	DRLTMPAS	UK42952/PK76378
				UK42953/PK76378
				UK35362/PK55987
				UK35366/PK55987
				UK35367/PK55987
				UK35368/PK55987
				UK44729/PK79972
				UK44731/PK79972
		MVSPM_VS_PRIVATE_H	DRLTMPV2	UK42947/PK76378
				UK42951/PK76378
				UK42952/PK76378
				UK42953/PK76378
		MVSPM_WORKLOAD2_H	DRLTMPW2	UK35362/PK55987
				UK35366/PK55987
				UK35367/PK55987
				UK35368/PK55987
				UK42947/PK76378
		MVSPM_XCF_MEMBER_H	DRLTMPXM	UK42951/PK76378
				UK42952/PK76378
		UK42953/PK76378		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
		UK35368/PK55987		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
		UK35368/PK55987		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
		UK35368/PK55987		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
		UK35368/PK55987		
		UK35362/PK55987		
		UK35366/PK55987		
		UK35367/PK55987		
		UK35368/PK55987		

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF		
MVSPM (continued)	Update	MVSPM_CF_LINK1_H	DRLTMPCL	UK41490/PK73675		
		MVSPM_CF_LINK_H	DRLTMPCL	UK41490/PK73675		
		MVSPM_CF_PROC_H	DRLTMPCF	UK41490/PK73675		
		MVSPM_CF_REQUEST_H	DRLTMPCR	UK35362/PK55987		
					UK35366/PK55987	
					UK35367/PK55987	
					UK35368/PK55987	
				MVSPM_CF_STRUCT_H	DRLTMPCR	UK31701/PK53572
						UK31703/PK53572
						UK31704/PK53572
						UK31705/PK53572
						UK31706/PK53572
						UK31707/PK53572
						UK31708/PK53572
						UK31718/PK53572
						UK41490/PK73675
				MVSPM_CF_TO_CF_H	DRLTMPFF	UK41490/PK73675
				MVSPM_CHANNEL_H	DRLTMPCH	UK35805/PK62892
						UK41490/PK73675
				MVSPM_CLUSTER_H	DRLTMPLC	UK41490/PK73675
				MVSPM_CPU_H	DRLTMPCU	UK31701/PK53572
						UK31703/PK53572
						UK31704/PK53572
						UK31705/PK53572
						UK31706/PK53572
						UK31707/PK53572
						UK31708/PK53572
						UK31718/PK53572
						UK38757/PK64212
						UK38761/PK64212
						UK38762/PK64212
						UK38763/PK64212
						UK41490/PK73675
				MVSPM_CPU_H2	DRLTMPCU	UK31701/PK53572
				UK31703/PK53572		
				UK31704/PK53572		
				UK31705/PK53572		
				UK31706/PK53572		
				UK31707/PK53572		
				UK31708/PK53572		
				UK31718/PK53572		
				UK41490/PK73675		
		MVSPM_CRYPT0_CCF	DRLTMPCC	UK41490/PK73675		
		MVSPM_CRYPT0_PCICA	DRLTMPCC	UK41490/PK73675		
		MVSPM_CRYPT0_PCICC	DRLTMPCC	UK41490/PK73675		
		MVSPM_DEVICE_H	DRLTMPDE	UK41490/PK73675		
		MVSPM_DEVICE_H2	DRLTMPDE	UK41490/PK73675		
		MVSPM_ENQUEUE_H	DRLTMPDQ	UK41490/PK73675		
		MVSPM_ESSLINK_H	DRLTMPES	UK41490/PK73675		
		MVSPM_ESS_EXTENT_H	DRLTMPPE	UK41490/PK73675		
		MVSPM_ESS_RANK_H	DRLTMPER	UK41490/PK73675		
		MVSPM_FICON_H	DRLTMPFC	UK41490/PK73675		

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF		
MVSPM (continued)	Update (continued)	MVSPM_GOAL_ACT_H	DRLTMPGA	UK41490/PK73675		
		MVSPM_HS_CHAN_H	DRLTMPCH	UK41490/PK73675		
		MVSPM_LCU_IO_H	DRLTMPCI	UK41490/PK73675		
		MVSPM_LCU_IO_H1	DRLTMPCI	UK41490/PK73675		
		MVSPM_LCU_IO_H2	DRLTMPCI	UK35362/PK55987		
					UK35366/PK55987	
					UK35367/PK55987	
					UK35368/PK55987	
					UK41490/PK73675	
				MVSPM_LCU_IO_H3	DRLTMPCI	UK35362/PK55987
						UK35366/PK55987
						UK35367/PK55987
						UK35368/PK55987
						UK41490/PK73675
				MVSPM_LPAR_H	DRLTMPLP	UK32437/PK52681
						UK32439/PK52681
						UK41490/PK73675
				MVSPM_LPAR_H2	DRLTMPLP	UK41490/PK73675
				MVSPM_LPAR_ZOS_H	DRLTMPLP	UK32437/PK52681
						UK32439/PK52681
						UK41490/PK73675
				MVSPM_LPAR_ZOS_W	DRLTMPLP	UK32437/PK52681
						UK32439/PK52681
				MVSPM_LPAR_ZOS_WLM	DRLTMPLP	UK41490/PK73675
				MVSPM_OMVS_BUF_H	DRLTMPHF	UK41490/PK73675
				MVSPM_OMVS_GHFS_H	DRLTMPHF	UK41490/PK73675
				MVSPM_OMVS_HFS_H	DRLTMPHF	UK41490/PK73675
				MVSPM_OMVS_KERN_H	DRLTMPOK	UK41490/PK73675
				MVSPM_PAGE_DS_H	DRLTMPPD	UK41490/PK73675
				MVSPM_PAGING_H	DRLTMPPG	UK38757/PK64212
						UK38761/PK64212
						UK38762/PK64212
						UK38763/PK64212
						UK39228/PK69395
				UK39229/PK69395		
				UK39230/PK69395		
				UK41490/PK73675		
		MVSPM_PAGING_H2	DRLTMPPG	UK41490/PK73675		
		MVSPM_STORAGE_H	DRLTMPST	UK41490/PK73675		
		MVSPM_SWAP_H	DRLTMPSW	UK41490/PK73675		
		MVSPM_SYSTEM_H	DRLTMPAS	UK39445/PK70657		
				UK39446/PK70657		
				UK39448/PK70657		
				UK39452/PK70657		
				UK41490/PK73675		
		MVSPM_SYSTEM_H2	DRLTMPAS	UK41490/PK73675		
		MVSPM_SYSTEM_H3	DRLTMPAS	UK41490/PK73675		
		MVSPM_SYSTEM_H4	DRLTMPAS	UK41490/PK73675		
		MVSPM_SYSTEM_H5	DRLTMPAS	UK41490/PK73675		
		MVSPM_SYSTEM_HX	DRLTMPAS	UK41490/PK73675		
		MVSPM_VS_CSASQA_H	DRLTMPV1	UK41490/PK73675		
		MVSPM_VS_PRIVATE_H	DRLTMPV2	UK41490/PK73675		

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	Update (continued)	MVSPM_VS_SUBPOOL_H	DRLTMPV3	UK41490/PK73675
		MVSPM_WLM_SERVED_H	DRLTMPWX	UK41490/PK73675
		MVSPM_WLM_STATE_H1	DRLTMPWS	UK41490/PK73675
		MVSPM_WLM_STATE_H2	DRLTMPWS	UK41490/PK73675
		MVSPM_WORKLOAD2_H	DRLTMPW2	UK35362/PK55987
				UK35366/PK55987
				UK35367/PK55987
				UK35368/PK55987
				UK41490/PK73675
		MVSPM_WORKLOAD_H	DRLTMPWO	UK41490/PK73675
		MVSPM_XCF_MEMBER_H	DRLTMPXM	UK41490/PK73675
		MVSPM_XCF_PATH_H	DRLTMPXP	UK41490/PK73675
		MVSPM_XCF_SYS_H	DRLTMPXS	UK41490/PK73675

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	View	MVSPM_APPL_HV	DRLTMPAP	UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK43085/PK77990
		MVSPM_CF_PROC_HV	DRLTMPCF	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVSPM_CF_REQ_HV	DRLTMPCR	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVSPM_CHANNEL_HV MVSPM_CPU_HV	DRLTMPCH DRLTMPCU	UK35805/PK62892 UK31701/PK53572 UK31703/PK53572 UK31704/PK53572 UK31705/PK53572 UK31706/PK53572 UK31707/PK53572 UK31708/PK53572 UK31718/PK53572 UK38757/PK64212 UK38761/PK64212 UK38762/PK64212 UK38763/PK64212 UK42327/PK76384
		MVSPM_DEVICE_HV	DRLTMPDE	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987 UK42947/PK76378 UK42951/PK76378 UK42952/PK76378 UK42953/PK76378
		MVSPM_LCU_IO_HV	DRLTMPCI	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVSPM_LPAR_HV	DRLTMPLP	UK32437/PK52681 UK32439/PK52681
		MVSPM_PAGING_HV	DRLTMPPG	UK38757/PK64212 UK38761/PK64212 UK38762/PK64212 UK38763/PK64212 UK39228/PK69395 UK39229/PK69395 UK39230/PK69395

z/OS Performance Management (MVSPM) objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
MVSPM (continued)	View (continued)			UK42947/PK76378 UK42951/PK76378 UK42952/PK76378 UK42953/PK76378
		MVSPM_SYSTEM_HV	DRLTMPAS	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987
		MVSPM_WORKLOAD2_HV	DRLTMPW2	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987 UK42947/PK76378 UK42951/PK76378 UK42952/PK76378 UK42953/PK76378
		MVSPM_WORKLOADX_HV	DRLTMPW2	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987 UK42947/PK76378 UK42951/PK76378 UK42952/PK76378 UK42953/PK76378
		MVSPM_XCF_PATH_HV	DRLTMPXP	UK35362/PK55987 UK35366/PK55987 UK35367/PK55987 UK35368/PK55987

WebSphere Application Server objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
WebSphere Activity	Purge	WASACT_REQAPPL_D	DRLTWASA	UK42987/PK75543 UK42989/PK75543
		WASACT_REQAPPL_H	DRLTWASA	UK42987/PK75543 UK42989/PK75543
		WASACT_REQAPPL_M	DRLTWASA	UK42987/PK75543 UK42989/PK75543
		WASACT_REQCONT_D	DRLTWASC	UK42987/PK75543 UK42989/PK75543
		WASACT_REQCONT_H	DRLTWASC	UK42987/PK75543 UK42989/PK75543
		WASACT_REQCONT_M	DRLTWASC	UK42987/PK75543 UK42989/PK75543
		WAS_ACT_BEANMTHD	DRLTJCAM	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717
		WAS_ACT_CLASS	DRLTWACO	UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717
		WAS_ACT_CONTAIN	DRLTWACO	UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717
		WAS_ACT_HTTPSESS	DRLTWAHS	UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717
		WAS_ACT_J2EECNT	DRLTJCAM	UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717
		WAS_ACT_METHOD	DRLTWACO	UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717
		WAS_ACT_SERVER	DRLTWASE	UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717
		WAS_ACT_SERVLETS	DRLTWASW	UK44310/PK75435 UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717

WebSphere Application Server objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
WebSphere Activity (continued)	Purge (continued)	WAS_ACT_SERV_HEAP	DRLTWASH	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
		WAS_ACT_WEBAPPL	DRLTWASW	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
		WAS_CONNECT_ACTID	DRLTWASV	UK43218/PK77717 UK43227/PK77717 UK43228/PK77717 UK43229/PK77717 UK44310/PK75435
	Record	SMF_120_1	DRLRS121	UK40426/PK71325 UK40429/PK71325
		SMF_120_9	DRLRS129	UK42987/PK75543 UK42989/PK75543
	Table	WASACT_REQAPPL_D	DRLTWASA	UK42987/PK75543 UK42989/PK75543
		WASACT_REQAPPL_H	DRLTWASA	UK42987/PK75543 UK42989/PK75543
		WASACT_REQAPPL_M	DRLTWASA	UK42987/PK75543 UK42989/PK75543
		WASACT_REQCONT_D	DRLTWASC	UK42987/PK75543 UK42989/PK75543
		WASACT_REQCONT_H	DRLTWASC	UK42987/PK75543 UK42989/PK75543
		WASACT_REQCONT_M	DRLTWASC	UK42987/PK75543 UK42989/PK75543
	Tablespace	DRLSWAS5	DRLSWASC	UK42987/PK75543 UK42989/PK75543
		DRLSWAS6	DRLSWASC	UK42987/PK75543 UK42989/PK75543
		DRLSWAS7	DRLSWASC	UK42987/PK75543 UK42989/PK75543
		DRLSWAS8	DRLSWASA	UK42987/PK75543 UK42989/PK75543
		DRLSWAS9	DRLSWASA	UK42987/PK75543 UK42989/PK75543
		DRLSWASA	DRLSWASA	UK42987/PK75543 UK42989/PK75543

WebSphere Application Server objects modified by migration from 1.8.0

Tivoli Decision Support for z/OS component	Object type	Object	Member name	APAR/PTF
WebSphere Activity (continued)	Update	WASACT_REQAPPL_DU	DRLTWASA	UK42987/PK75543
		WASACT_REQAPPL_HU	DRLTWASA	UK42989/PK75543
		WASACT_REQAPPL_MU	DRLTWASA	UK42987/PK75543
		WASACT_REQCONT_DU	DRLTWASC	UK42989/PK75543
		WASACT_REQCONT_HU	DRLTWASC	UK42987/PK75543
		WASACT_REQCONT_MU	DRLTWASC	UK42989/PK75543
		WAS_ACT_SERVER	DRLUWASE	UK40426/PK71325
	View	WASACT_REQAPPL_DV	DRLTWASA	UK42987/PK75543
		WASACT_REQAPPL_HV	DRLTWASA	UK42989/PK75543
		WASACT_REQAPPL_MV	DRLTWASA	UK42987/PK75543
		WASACT_REQCONT_DV	DRLTWASC	UK42989/PK75543
		WASACT_REQCONT_HV	DRLTWASC	UK42987/PK75543
		WASACT_REQCONT_MV	DRLTWASC	UK42989/PK75543
	WebSphere Interval	Record	SMF_120_3	DRLRS123
Table		WAS_INT_SERVER_D	DRLTWISV	UK40429/PK71325
		WAS_INT_SERVER_H	DRLTWISV	UK40426/PK71325
		WAS_INT_SERVER_M	DRLTWISV	UK40429/PK71325
Update		WAS_INT_SERVER_D	DRLUWISV	UK40426/PK71325
		WAS_INT_SERVER_H	DRLUWISV	UK40429/PK71325
		WAS_INT_SERVER_M	DRLUWISV	UK40426/PK71325
View		WAS_INT_SERVER_DV	DRLVWISV	UK40429/PK71325
		WAS_INT_SERVER_HV	DRLVWISV	UK40426/PK71325
		WAS_INT_SERVER_MV	DRLVWISV	UK40429/PK71325

WebSphere Application Server objects modified by migration from 1.8.0

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Glossary

A

administration. A Tivoli Decision Support for z/OS task that includes maintaining the database, updating environment information, and ensuring the accuracy of data collected.

administration dialog. A set of host windows used to administer Tivoli Decision Support for z/OS.

C

collect. A process used by Tivoli Decision Support for z/OS to read data from input log data sets, interpret records in the data set, and store the data in DB2 tables in the Tivoli Decision Support for z/OS database.

component. An optionally installable part of a Tivoli Decision Support for z/OS feature. Specifically in Tivoli Decision Support for z/OS, a component refers to a logical group of objects used to collect log data from a specific source, to update the Tivoli Decision Support for z/OS database using that data, and to create reports from data in the database.

control table. A predefined Tivoli Decision Support for z/OS table that controls results returned by some log collector functions.

D

data table. A Tivoli Decision Support for z/OS table that contains performance data used to create reports.

uninstall. An administration dialog option to remove a component from the list of installed components. This action involves deleting from Tivoli Decision Support for z/OS system tables all definitions that the component uses.

E

environment information. All of the information that is added to the log data to create reports. This information can include data such as performance groups, shift periods, installation definitions, and so on.

H

header. An element of a log definition. Lists fields common to all records in the log.

L

log collector. A Tivoli Decision Support for z/OS program that processes log data sets and provides other Tivoli Decision Support for z/OS services.

log collector language. Tivoli Decision Support for z/OS statements used to supply definitions to and invoke services of the log collector.

log data set. Any sequential data set that is used as input to Tivoli Decision Support for z/OS.

log definition. The description of a log data set processed by the log collector.

log procedure. A program module that is used to process all record types in certain log data sets.

lookup expression. An expression that specifies how a value is obtained from a lookup table.

lookup table. A Tivoli Decision Support for z/OS DB2 table that contains grouping, translation, or substitution information.

P

purge condition. Instruction for purging old data from the database.

R

record definition. The description of a record type contained in the log data sets used by Tivoli Decision Support for z/OS, including detailed record layout and data formats.

record procedure. A program module that is called to process some types of log records.

record type. The classification of records in a log data set.

repeated section. A section of a record that occurs more than once, with each occurrence adjacent to the previous one.

report definition language. Tivoli Decision Support for z/OS statements used to define reports and report groups.

report group. A collection of Tivoli Decision Support for z/OS reports that can be referred to by a single name.

reporting dialog. A set of host or workstation windows used to request reports.

resource group. A collection of network resources that are identified as belonging to a particular department or division. Resources are organized into groups to reflect the structure of an organization.

resource information. Environment information that describes the elements in a network.

S

section. A structure within a record that contains one or more fields and may contain other sections.

source. In an update definition, the record or DB2 table that contains the data used to update a Tivoli Decision Support for z/OS DB2 table.

system table. A DB2 table that stores information that controls log collector processing, Tivoli Decision Support for z/OS dialogs, and reporting.

T

table definition. Stores data in DB2. It identifies the database and tablespace in which a table resides, and identifies columns in the table.

target. In an update definition, the DB2 table in which Tivoli Decision Support for z/OS stores data from the source record or table.

Tivoli Decision Support for z/OS database. A set of DB2 tables that includes data tables, lookup tables, system tables, and control tables.

timestamp. An element of a log definition. Describes how to derive the timestamp of a record from fields in the header.

U

update definitions. Instructions for entering data into DB2 tables from records of different types or from other DB2 tables.

V

view. An alternative representation of data from one or more tables. A view can include all or some of the columns contained in the table on which it is defined.

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