HP OpenView Storage Data Protector

Integration Guide
for
HP OpenView Reporter

Version: A.02.01

HP-UX, Solaris and Windows

Legal Notices

Warranty.

Hewlett-Packard makes no warranty of any kind with regard to this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Hewlett-Packard shall not be held liable for errors contained herein or direct, indirect, special, incidental or consequential damages in connection with the furnishing, performance, or use of this material.

A copy of the specific warranty terms applicable to your Hewlett-Packard product can be obtained from your local Sales and Service Office.

Restricted Rights Legend.

Use, duplication or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause in DFARS 252.227-7013.

Hewlett-Packard Company
United States of America

Rights for non-DOD U.S. Government Departments and Agencies are as set forth in FAR 52.227-19(c)(1,2).

Copyright Notices.

Contents

Contents

Printing History

The manual printing date and part number indicate its current edition. The printing date will change when a new edition is printed. Minor changes may be made at reprint without changing the printing date. The manual part number will change when extensive changes are made.

Manual updates may be issued between editions to correct errors or document product changes. To ensure that you receive the updated or new editions, you should subscribe to the appropriate product support service. See your HP sales representative for details.

Table 1   **Edition History**

Part Number	Manual Edition	Product
B6960-90069	August 2002	HP OpenView Storage Data Protector A.05.00
not applicable	April 2003	HP OpenView Storage Data Protector A.05.10
not applicable	July 2003	HP OpenView Storage Data Protector A.05.10

Conventions

The following typographical conventions are used in this manual.

Table 2

Convention	Meaning	Example
Italic	Book or manual titles, and manual page names	Refer to the *HP OpenView Storage Data Protector Integration Guide* for more information.
	Provides emphasis	You *must* follow these steps.
	Specifies a variable that you must supply when entering a command	At the prompt type: `rlogin` *your_name* where you supply your login name.
Bold	New terms	The Data Protector **Cell Manager** is the main ...
`Computer`	Text and items on the computer screen	The system replies: `Press Enter`
	Command names	Use the `grep` command ...
	File and directory names	`/usr/bin/X11`
	Process names	Check to see if `Data Protector Inet` is running.
	Window/dialog box names	In the `Backup Options` dialog box...
`Computer Bold`	Text that you must enter	At the prompt, type: `ls -l`
Keycap	Keyboard keys	Press **Return**.

Contact Information

General Information

General information about Data Protector can be found at

http://www.hp.com/go/dataprotector

Technical Support

Technical support information can be found at the HP Electronic Support Centers at

http://support.openview.hp.com/support.jsp

Information about the latest Data Protector patches can be found at

http://support.openview.hp.com/patches/patch_index.jsp

For information on the Data Protector required patches, see the *HP OpenView Storage Data Protector Software Release Notes*

HP does not support third-party hardware and software. Contact the respective vendor for support.

Documentation Feedback

Your comments on the documentation help us to understand and meet your needs. You can provide feedback at

http://ovweb.external.hp.com/lpe/doc_serv/

Training Information

For information on currently available HP OpenView training, see the HP OpenView World Wide Web site at

http://www.openview.hp.com/training/

Follow the links to obtain information about scheduled classes, training at customer sites, and class registration.

Data Protector Documentation

Data Protector documentation comes in the form of manuals and online Help.

Manuals

Data Protector manuals are available in printed format and in PDF format. Install the PDF files during the Data Protector setup procedure by selecting the `User Interface` component on Windows or the `OB2-DOCS` component on UNIX. Once installed, the manuals reside in the `\<Data_Protector_home>docs` directory on Windows and on the `/docs/C/` directory on UNIX. You can also find the manuals in PDF format at http://ovweb.external.hp.com/lpe/doc_serv/

HP OpenView Storage Data Protector Administrator's Guide

This manual describes typical configuration and administration tasks performed by a backup administrator, such as device configuration, media management, configuring a backup, and restoring data.

HP OpenView Storage Data Protector Installation and Licensing Guide

This manual describes how to install the Data Protector software, taking into account the operating system and architecture of your environment. This manual also gives details on how to upgrade Data Protector, as well as how to obtain the proper licenses for your environment.

HP OpenView Storage Data Protector Integration Guide

This manual describes how to configure and use Data Protector to back up and restore various databases and applications.
There are two versions of this manual:

- *HP OpenView Storage Data Protector Windows Integration Guide*

  This manual describes integrations running the Windows operating systems, such as Microsoft Exchange, Microsoft SQL, Oracle, SAP R/3, Informix, Sybase, NetApp Filer, HP OpenView Network Node Manager and Lotus Domino R5 Server.

- *HP OpenView Storage Data Protector UNIX Integration Guide*

  This manual describes integrations running on the UNIX operating system, such as: Oracle, SAP R/3, Informix, Sybase, NetApp Filer, HP OpenView Network Node Manager and Lotus Domino R5 Server.

HP OpenView Storage Data Protector Concepts Guide

This manual describes Data Protector concepts and provides background information on how Data Protector works. It is intended to be used with the task-oriented *HP OpenView Storage Data Protector Administrator's Guide*.

HP OpenView Storage Data Protector EMC Symmetrix Integration Guide

This manual describes how to install, configure, and use the EMC Symmetrix and EMC Fastrax integrations. It is intended for backup administrators or operators.

- The first part describes the integration of Data Protector with the EMC Symmetrix Remote Data Facility and TimeFinder features for Symmetrix Integrated Cached Disk Arrays. It covers the backup and restore of filesystems and disk images as well as online databases, such as Oracle and SAP R/3.

- The second part describes the integration of Data Protector with the EMC Fastrax. It covers the backup and restore of disk images as well as Oracle8i and SAP R/3 systems, using direct disk to tape technology.

HP OpenView Storage Data Protector HP StorageWorks Disk Array XP Integration Guide

This manual describes how to install, configure, and use the integration of Data Protector with HP StorageWorks Disk Array XP. It is intended for backup administrators or operators. It covers the backup and restore of Oracle, SAP R/3, Microsoft Exchange, and Microsoft SQL.

HP OpenView Storage Data Protector HP StorageWorks Virtual Array Integration Guide

This manual describes how to install, configure, and use the integration of Data Protector with HP StorageWorks Virtual Array. It is intended for backup administrators or operators. It covers the backup and restore of Oracle, SAP R/3 and Microsoft Exchange.

HP OpenView Storage Data Protector Integration Guide for HP OpenView Service Information Portal

This manual describes how to install, configure, and use the integration of Data Protector with HP OpenView Service Information Portal. It is intended for backup administrators. It discusses how to use the application for Data Protector service management.

HP OpenView Storage Data Protector Integration Guide for HP OpenView Reporter

This manual describes how to install, configure, and use the integration of Data Protector with HP OpenView Reporter. It is intended for backup administrators. It discusses how to use the application for Data Protector service management.

HP OpenView Storage Data Protector Integration Guide for HP OpenView Service Desk

This manual describes how to install, configure, and use the integration of Data Protector with HP OpenView Service Desk. It is intended for backup administrators. It discusses how to use the application for Data Protector service management.

HP OpenView Storage Data Protector Software Release Notes

This document gives a description of new features of HP OpenView Storage Data Protector A.05.10. It also provides information on supported configurations (devices, platforms and online database integrations, SAN configurations, EMC split mirror configurations, and HP StorageWorks XP configurations), required patches, limitations, as well as known problems and workarounds. An updated version of the supported configurations is available at http://www.openview.hp.com/products/dataprotector/specifications/index. asp.

Online Help   Data Protector provides online Help for Windows and UNIX platforms.

In This Book

The *HP OpenView Storage Data Protector Integration Guide for HP OpenView Reporter* describes how to install, configure, and use the integration of Data Protector with HP OpenView Reporter.

NOTE   This manual describes Data Protector functionality without specific information on particular licensing requirements. Some Data Protector functionality is subject to specific licenses. The related information is covered in the *HP OpenView Storage Data Protector Installation and Licensing Guide*.

Audience

This manual is intended for backup administrators or operators who plan to install and configure the integration of Data Protector with HP OpenView Reporter.

Conceptual information can be found in the *HP OpenView Storage Data Protector Concepts Guide,* which is recommended in order to fully understand the fundamentals and the model of Data Protector.

Organization

The manual is organized as follows:

Chapter 1   "Introduction" on page 19.

Chapter 2   "Data Protector-OVR Integration" on page 23.

The integrations of Data Protector with the following applications is described in the *HP OpenView Storage Data Protector Administrator's Guide*:

- OmniStorage
- Microsoft Cluster Server
- MC/ServiceGuard
- Data Source Integration
- Application Response Measurement
- ManageX

1   Introduction

Overview

This chapter provides a brief overview of Data Protector, the HP OpenView product integrated with it to create an enterprise-wide solution that provides service level management, and the integration itself.

Data Protector

HP OpenView Storage Data Protector is a backup and recovery solution that provides reliability and protection for your fast growing business data. Data Protector offers comprehensive backup and restore functionality designed specifically for enterprise wide and distributed environments.

Data Protector also provides information that can be used, through reports and messaging tools, to help you monitor the status of your processes, in addition to providing backup and recovery functionality.

OpenView Products Integrated with Data Protector

Data Protector is designed to allow the integration of other HP OpenView products, in order to provide you with an enterprise-wide solution for your IT environment. Integrations with HP OpenView Reporter is described in this manual.

OpenView Reporter

HP OpenView Reporter creates Web-based reports from data of targeted systems it "discovers." Discovery of a system can occur if the system is running OpenView agent and subagent software. Agent software includes HP OpenView Performance Agent for Windows NT/2000 (MeasureWare Agent) or for UNIX systems. Reporter can also generate reports on systems managed by HP OpenView Operations [OVO]. After Reporter has run through its discovery, it gathers data based on pre-defined and user-specified lists of metrics, then formats the collected data into Web page reports.

OpenView Operations

OpenView Operations is a central management point for various remote OpenView applications. Collects and analyzes data, automates critical response, as well as message forwarding to other services.

Service Level Management Integrations

Data Protector and the HP OpenView products listed above are integrated to create an enterprise-wide solution that provides service level management. The integrations are introduced below:

Data Protector-OVR

The integration of Data Protector with OpenView Reporter provides additional capabilities for monitoring and reporting on backup and recovery processes and trend of backups. It provides detailed, in depth information concerning the health and status of Data Protector's data protection services.

2 Data Protector-OVR Integration

Introduction

The integration of OpenView Reporter offers two ways of integration. One is direct integration with Data Protector which gives trend reports and skipped files report and the other is via OpenView Operations with Data Protector, which provides additional capabilities for monitoring and reporting on backup and recovery processes.

Data Protector deals effectively with the backup, recovery, and protection of valuable data, but problems occur that are beyond the control of an administrator. Media goes bad, storage runs low, and machines die, get disconnected, or lose power. The administrator or IT staff must be able to deal with these situations in a timely manner and requires that pertinent information be available easily, quickly, and immediately in the most accessible manner.

This chapter describes how Reporter integrates with Data Protector to provide detailed and in depth information concerning the health and status of Data Protector's data protection services.

Prerequisites

The integration requires the following licensed components:

- Data Protector
- OpenView Operations
- OpenView Reporter
- Data Protector Integration for OVO/UNIX

Product Capabilities and Integration Benefits

This integration maximizes the potential of OVO, OVR, and Data Protector, providing all of the following benefits:

- Enterprise-level data is presented in easy to read charts, tables, and graphs, making it simpler to review and analyze.
- Information is available through any compatible web browser on your network, so administrators aren't tied to a single location for accessing the Data Protector or Operations machines.

- Additional reports can be generated, customized using On Demand Report for trend reports. But for other DP related reports, this can be achieved using Crystal Reports (a tool that can be used to create reports from data sources, to publish reports to the Web in a variety of formats, and to integrate reports with applications). This product is not included with OVO, OVR, or Data Protector. Refer to the Crystal Reports documentation for template and configuration information.

- The administrator has convenient access to critical information concerning Data Protector services.

- Information is collected in convenient report formats.

- The reports provide trend and high-level view of the data protection services for the whole enterprise.

- Any Data Protector Management Server, including geographically distributed installations, can be added to this integration using the `AddCell` tool.

Component List

Table 2-1

Data Protector	A data protection service that handles data backup and recovery across various systems and media types.
OpenView Operations	A central management point for various remote OpenView applications. Collects and analyzes data, automates critical response, as well as message forwarding to other services.
OpenView Reporter	A reporting service that further analyzes, inspects, and collects data gathered by OVO and formats them into a human readable and usable web-based presentation.
Data Protector Integration for OVO/UNIX	A software package that helps you to monitor and manage the health and performance of your Data Protector environment with HP OpenView Operations (OVO), HP OpenView Service Navigator, and the HP OpenView Performance (OVP) Agent.

How Data Protector Integrates with OVR
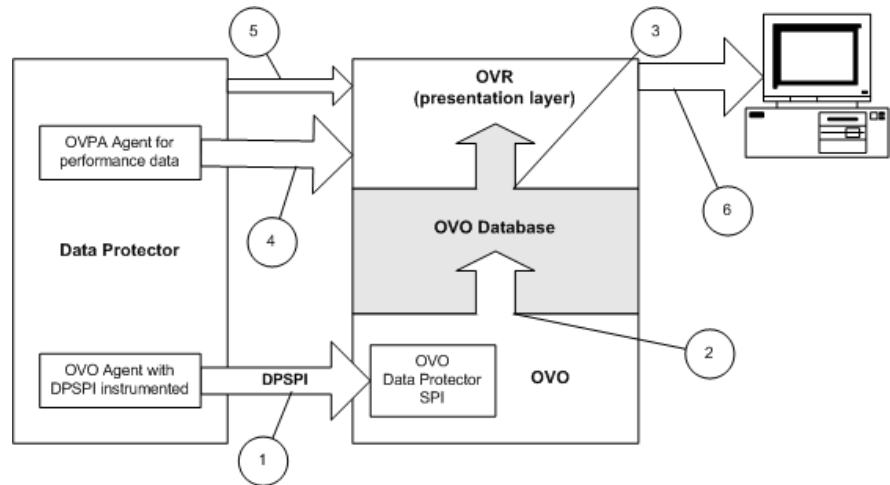
1. OVO receives information from Data Protector via the DP-OVO integration.

2. The information is stored in the OVO database.

3. OVR extracts necessary Data Protector-specific data from the OVO database.

4. OVR also collects performance related data from the Data Protector server using the OV performance agent.

5. Cell Request Server serves Session Information to OVR via port. (Default 5555).

6. OVR generates Data Protector reports using data collected in steps 3, 4, and 5.

Dependencies

- OVO requires Oracle 8i or 9i. Refer to the OVO Installation Guide

- Java™ Runtime Environment 1.4 is required for this integration.

- Netscape Navigator 4.7 is listed as a required component at some points, but this is unnecessary if a web browser on another machine is available

- The proper environment is required prior to installation of the components of the integration. This may include various patches, software, and settings to be made. Please refer to the corresponding installation guides for more information.

Table 2-2 **Software Requirements**

Application	Version	Platform
OVO	6.0, 7.0, 7.1	HP-UX 11.0, and 11.11 Solaris 8, 9.
Data Protector	5.1	HP-UX 11.0, 11.11 Solaris 8 Windows NT 4.0, Windows 2000 Windows XP
OVO Agent	6.05, 7.0, 7.10	HP-UX 10.20, 11.0, 11.11 Solaris 8 Windows NT 4.0, Windows 2000
DPSPI	5.x	HP-UX 10.20, 11.0, 11.11 Solaris 8 Windows NT 4.0, Windows 2000, Windows XP
OVR	3.x	Windows 2000 and Windows NT

Data Protector/OVR Integration

The Data Protector/OVR integration consists of three major elements:

- DP/OVO/OVR Integartion
- DP/VPPA/OVR Integartion
- DP/OVR Integartion

These elements are described in greater detail in the sections that follow:

DP/OVO/OVR Integartion

The Data Protector-OVO Integration populates Data Protector specific data into the OVO database with the help of the DPSPI. To produce Data Protector specific reports, OVR reads the OVO database (an Oracle 8i/9i client should be installed on the OVR server) to retrieve data using the DSN 'openview'.

DP/OVPA/OVR Integration

OVPA collects data from Data Protector with the help of `libarm.sl` and stores it in logfiles. OVR gathers performance and transaction data for the Data Protector management server from the OVPA's logfile, based on a specified metric list and stores it in the OVR database from which the reports are produced.

DP/OVR Integration

The final main element of the Data Protector-OVR integration is generating trend reports using the `DPGatherer`. This gatherer gets the cell information (cell name, password for DP user java - encrypted form, cell port number and MoM environment status) from the OVR database (which is stored using the `AddCell` utility of this integration) and makes the socket connection to the Data Protector Management Server to gather session informations and loads it into OVR database to produce the trend reports.

Setup Process

Setup and install of the OVR Report package is very simple, assuming you have a working Data Protector-OVO integration and a working OVO-OVR installation. Please refer to the *HP OpenView Storage Data Protector Integration Guide for HP OpenView Operations* or the OVR installation documents for more information.

To install the Data Protector-OVR integration:

1. On the OVR system, insert the Data Protector Windows CD

2. Run: `\DP_Service_Management_Integr\DP-OV-Reporter-WIN.exe`

3. Follow the on screen instructions

Configuration

If you have followed the suggested order of installation and the Data Protector-OVO integration has already been installed and configured, no configuration of the Data Protector-OVR integration should be necessary, as the integration installs a set of complete report templates that should work out of the box. The report package include a set of reports tailored for a working Data Protector-OVO integration, so if the reports don't work, please check the Data Protector-OVO integration.

To manually configure a transaction report, you must integrate Data Protector with ARM® by linking the libarm.sl files in Data Protector and OVPA. For detailed instructions, see the *HP OpenView Storage Data Protector Administrator's Guide*.

To get trend reports and skipped file reports, you must add the DP Cell information into OVR database using `AddCell` window, illustrated in Figure 2-1, that is supplied with this integration. This utility needs the following information to add a DP Cell into the OVR database:

- Cell Name

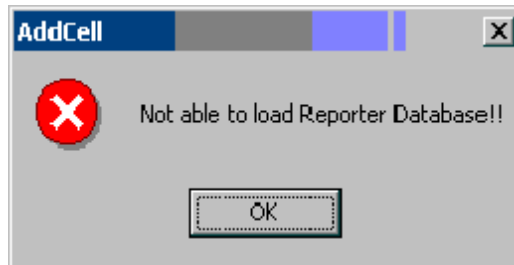- Password for DP user Java (default no password)

- OmniInet Port number (default (5555)

- MoM environment status

Figure 2-1   The AddCell Window
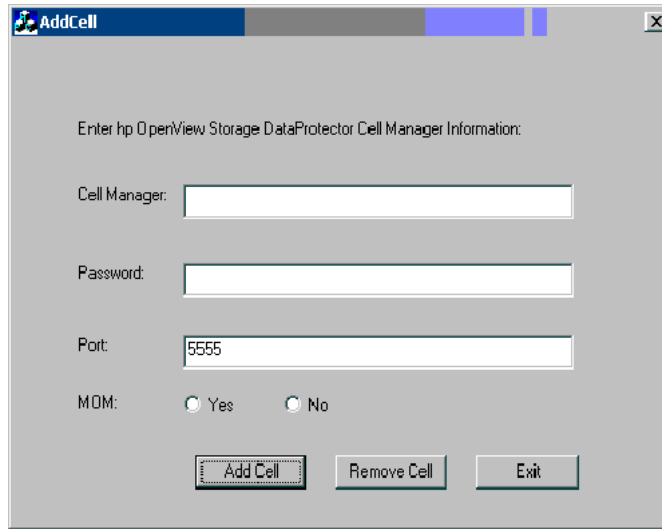
If AddCell is not able to connect to the OVR database, the following error message is displayed:

Figure 2-2   The AddCell Error Message

If the cell information is already stored in the database, the following error message is displayed:

Figure 2-3   **The AddCell Error Message**
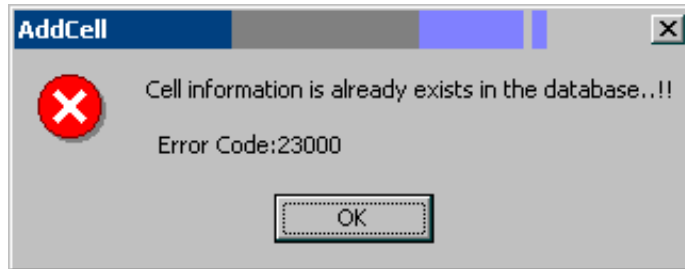
If the give cell name does not exist or it is not possible to resolve the hostname, the following error message is displayed:

Figure 2-4   **The AddCell Error Message**
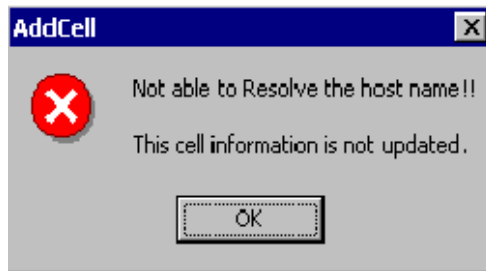
While removing the cell information from database, you may get the following error message if the password for the DP user java is not correct.

Figure 2-5   **The AddCell Error Message**

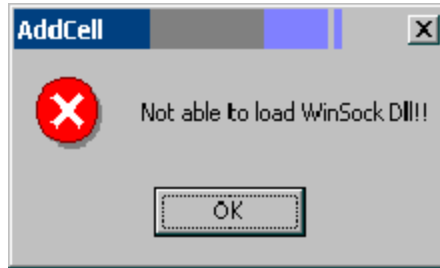To run this utility you need to have `Winsock.dll` installed on your system. This is normally available on all Windows systems. If this utility is not available, following error message is displayed:

Figure 2-6   **The AddCell Error Message**

By default the Trend report templates give the trend for last 30 days. If you want to have the trend for a different time period, change the data range from Reporter GUI.

Error Messages

This section provides an overview of error codes & error messages.

401 =>   "Already one instance of DPGather.exe is running"

402 =>   "Not able to create lock file under <OVR Home>\Data"

403 =>   "Not able to create java process to collect data"

404 =>   "OVR Home is null. Check Registry"

411 =>   "Cell Info File is Not Found. Reporter Database may not have DPCELLS table"

412 =>   "Not able to read generated Cell Info File."

413 =>   "Not able to open Reporter Database."

414 =>   "Not able to find <OVR Home>\Data\WebPages\DP\SkippedFiles directory."

415 =>   "Not able to write to <OVR Home>\Data\WebPages\DP\SkippedFiles\sfReport.htm."

451 =>   "Not able to create insert statement. Database or DPTrend table may not exist"

452 =>   "Not able to update DPTREND table. Table may not exist. Check the table 'DPTREND' status"

499 =>   "Error occurred while connecting to DP Cell Manager. More information, see <OVR Home>\Data\DPInteg.log"

01007=>   No permission to write into the database. Check the User privilege.

42S02=>   Table DPCELLS does not exist in OVR DB. Create the table using newDB -xml DPCells.xml

23000=> Cell information is already exists in the database. To alter, remove the cell information and re-add.

Troubleshooting

Table 2-3   **Troubleshooting Tips**

Problem	Resolution
While attempting to install the report package, setup was unable to detect HP OpenView Reporter on the machine	Make sure the machine you're installing on has HP OpenView Reporter A.03.01.00 or above. If it does not, install it.
HP OpenView Reporter was not installed properly on this machine	Reinstall or repair HP OpenView Reporter A.03.01.00
Installed HP OpenView Reporter version is not A.03.01.00	Upgrade or install HP OpenView Reporter A.03.01.00 or above
Not enough free disk space on Drive *selected drive*. Available disk space on drive *selected drive* is *space* MB. Required disk space is 5MB	Free up 5 or more MB of disk space on the selected drive and continue installing the OpenView Reporter Data Protector report package.

Creating Custom Reports

Introduction

The Data Protector integration with OpenView Reporter comes with a carefully chosen set of reports on the general health of the backup system and overall backup statistics. Reporter also offers a high degree of flexibility in changing the default report settings. If, however, you want to report on data from new or modified metric lists, new custom report templates are necessary.

Creating Data Protector On Demand Reports

You can create custom reports for trends using the `All Customers` link in the `On Demand Reports` section. By default this integration provides two standard `On Demand` reports:

- `Sessions Trend`
- `GBWritten Over Number of Files Backed-up`

To get custom trend reports, select the metrics from the following classes:

- `VPI_DPTRENDS`
- `DPTREND`

You can create or modify report templates with Seagate Crystal Reports to customize the default report templates or create your own templates.

NOTE   For detailed instructions on how to create custom reports and software requirements, refer to:

- OpenView Reporter online Help "Creating Your Own Reports" topics
- *HP OpenView Reporter Concepts Guide*
- *Customizing HP OpenView Reporter With Seagate Crystal Reports* (found on the Reporter product CD).

Crystal Reports Professional 8.5 was used to develop the default templates.

Creating Data Protector Custom Reports

When you create a new Data Protector report template in Crystal Reports, you must select a data source that defines where the data for each metric list is stored. You also need to understand the data format in order to retrieve appropriate performance data and use it to the best effect.

This section provides an overview of the main database tables and data format used for Data Protector-specific messages.

Data Source

The Data Protector Integration with OpenView Operations (DP-OVO) generates a wide variety of messages that enables you to monitor and manage the health and performance of your Data Protector environment with OpenView Operations (OVO).

Messages are stored in two sets of OVO message tables: active messages and history messages. The active and history messages, although they have the same attributes, are kept separate to improve performance when loading and inserting active messages. Acknowledged and unacknowledged messages are first marked and then moved in groups of 50 by an asynchronous process to reduce the impact on GUI. The message text and original message text are also stored in separate text tables for performance reasons.

OVO message tables include:

- OPC_ACT_MESSAGES

  This table contains the main entry for messages that are currently in the Message Browser window. This table can also contain a maximum of 50 acknowledged messages. When more than 50 messages have the ackn_flag set to Yes, they are moved to the history table.

- OPC_ANNO_TEXT

  This table contains the annotation text for messages in OPC_ACT_MESSAGES.

- OPC_ANNOTATION

  This table contains the main entry of message annotations for messages in OPC_ACT_MESSAGES.

- OPC_ESCAL_ASSIGN_M

This table contains the message numbers of the owned messages and messages that were escalated to or from another management server.

- OPC_FORWARD_MSGS

  This table contains list of messages that have been forwarded to other management servers.

- OPC_HIST_ANNO_TEXT

  This table contains the annotation text for history messages in OPC_HIST_MESSAGES.

- OPC_HIST_ANNOTATION

  This table contains the annotations for a history message in OPC_HIST_MESSAGES.

- OPC_HIST_MESSAGES

  This table contains the main entry for history messages (messages that were acknowledged or are log-only). Some acknowledged messages may still be in OPC_ACT_MESSAGES.

- OPC_HIST_MSG_TEXT

  This table contains the message text, divided into 254-byte parts, for messages in OPC_HIST_MESSAGES table.

- OPC_HIST_ORIG_TEXT

  This table holds the original message text, divided into 254-byte parts, of a history message in OPC_HIST_MESSAGES.

- OPC_INSTR_INTERF

  This table contains the definition of instruction text interfaces.

- OPC_INSTRUCTIONS

  This table contains the text of normal instructions.

- OPC_MSG_TEXT

  This table contains the message text for messages in the OPC_ACT_MESSAGES table. To allow for various text lengths, the text is split into chunks of 254 characters.

- OPC_ORIG_MSG_TEXT

  This table contains the original (unprocessed) text of messages in OPC_ACT_MESSAGES.

NOTE
For detailed definitions and contents of the OVO database tables, please refer to *HP OpenView Operations for UNIX Reporting and Database Schema*.

The following four OVO message tables are among the most frequently used in the default report templates provided by this integration: OPC_ACT_MESSAGES, OPC_MSG_TEXT, OPC_HIST_MESSAGES, and OPC_HIST_MSG_TEXT.
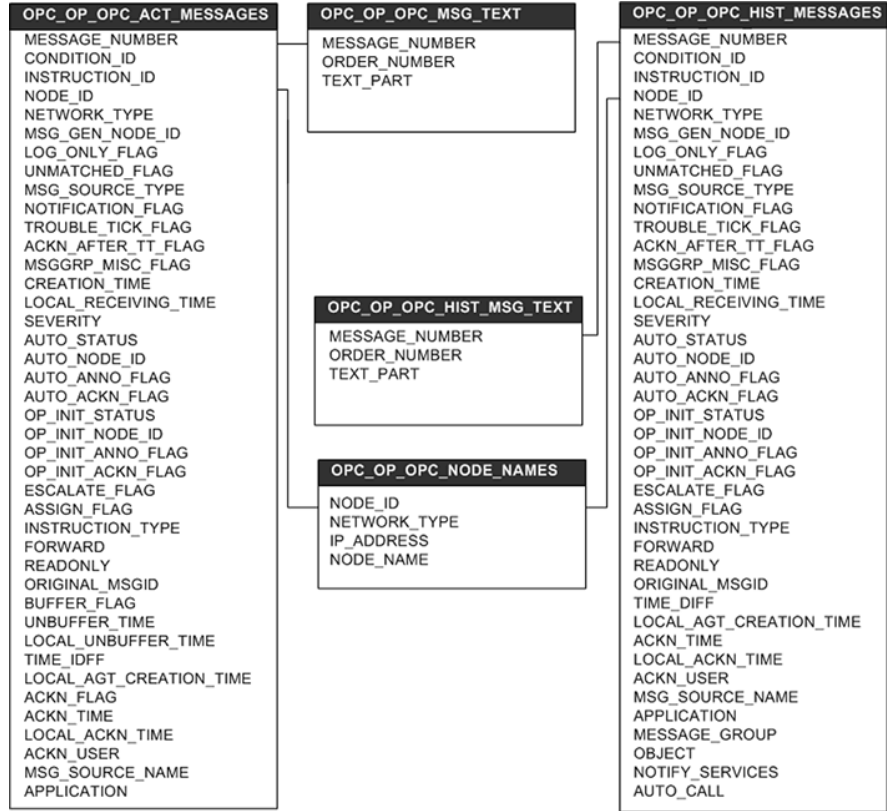
Most message tables contain the field node_id, which identifies the node where the event occurred. If the node is in an internet network, you can get each node's IP address and the identifying name from another table: OPC_NODE_NAMES.

The relationship between these tables is illustrated in Figure 2-7:

Figure 2-7   **Relationship Diagram**

Message Format

The DP-OVO integration installs six message groups that are specifically designed to handle messages generated by the templates and monitors started by the DP-OVO integrations. The messages generated by Data Protector are assigned to the six message groups where appropriate:

Table 2-4   **Data Protector Message Groups**

DP_Backup	Backup session related messages
DP_Restore	Restore session related messages

Table 2-4   Data Protector Message Groups (Continued)

DP_Mount	Mount request related messages
DP_Misc	All other important Data Protector related messages
DP_SPI	Messages from the DP-OVO integration
DP_Interactive	Detailed messages that are normally displayed only in the Data Protector interface. This message group is disabled by default. Enable this message group if you want to receive the greatest level of details about Data Protector 's operation.

An OVO message includes the following parameters:

Table 2-5   OVO Message Parameters

Message Group		
The following message groups are available:	DP_Backup	Backup session messages
	DP_Restore	Restore session messages
	DP_Mount	Mount request messages
	DP_Misc	All other important Data Protector messages
	DP_SPI	DP-OVO integration messages
Applications	Set to Data Protector	
Node	Set to the hostname of the Data Protector system where the event occurred.	
Severity	Reflection of the impact that the event has on Data Protector. For messages derived from SNMP traps, the severity value of the SNMP trap is used as the severity level of the message.	
Service Name	This depends on the impact the event has on a service. This value needs to map with a node in Data Protector's service tree.	

Table 2-5   **OVO Message Parameters (Continued)**

Object	This depends on the impact the event has on a service. This value needs to map with a node in Data Protector's service tree.
	Data Protector SNMP traps set the object parameter to NOTIFICATION
	Messages that originate from a:
	• monitored logfile set the Object parameter to the name of the logfile.
	• monitor set the Object parameter to the name of the monitor.

NOTE   For a detailed description of different message formats based on Message Group, Service Name, and Object, please refer to the *HP OpenView Data Protector Integration Administrator's Reference for HP OpenView Operations*.

Index

C
conventions, 9
Custom reports, 35

D
Data Protector
  Integration for OVO/UNIX, 24
Data Protector Integration for OVO/UNIX,
  26

J
Java Runtime Environment, 28

M
Messages, 36
  format, 39
  parameters, 40

N
Netscape Navigator, 28

O
OpenView
  Operations, 24, 26, 28
  Reporter, 24, 26
OpenView Operations, 21
Oracle, 28
OVO, 24, 26, 28

R
Reporter, 24, 26
Reports
  custom, 28, 35

T
typographical conventions, 9

Index