

Prerequisites

RCM supports the following systems, running HP OpenVMS Version 6.2 to 7.3-2 and higher:

- All HP AlphaServer systems
- All HP VAX systems

For HP AlphaServer systems with FRU Table 4.0 support, DECEvent Version 3.4 must be installed, and the SRM console must be configured so that the FRU entry is written to the event log at boot time.

You also need the following:

- 5000 blocks of free disk space for each node on which you run the data collection.
- RCM Data Collector for HP OpenVMS kit Version 5.0
- WorldWire Version 3.2 or higher if DSNlink/WorldWire is to be used as a transport mechanism
- To collect HSG information, the Command Console LUN (CCL) should be enabled by the following Array Controller command:

```
SET THIS_CONTROLLER  
COMMAND_CONSOLE_LUN
```
- To install RCM on HP AlphaServer and HP VAX systems running OpenVMS V6.2-1, the patch kit, `VMS62TO71U2_PCSI-V0200`, must first be installed.

You also need to have the following account privileges:

- OPER
- DIAGNOSE
- SYSPRV
- CMKRNL
- SYSLCK
- PHY_IO
- ALTPRI
- WORLD
- BYPASS

When you install the RCM Data Collector for HP OpenVMS, you will be required to enter an access ID. This access ID will be given to you by your HP Services representative.

If you are installing on an HP AlphaServer model DS10, DS10L, DS20, DS20E, DS25, ES40, ES45, ES47, GS80, GS160, GS320, or GS1280 you also need to install WEBES:
<http://h18023.www1.hp.com/support/svctools/webes/>

Installation

To run an RCM data collection, download and install the latest versions of the data collection software. The RCM for HP OpenVMS kit uses PCSI as the installation method. To install the data collector, follow these steps:

1. Extract the self-extracting executable file using the following command: `$ RUN <kitname>`
For example: `RUN RCM_AXPVMS_V0500-585.EXE`
2. Decide where you want to install RCM. Note that it must be installed on a disk that is accessible by all the nodes from which data will be collected. For example, you could install to the following directory: `SYS$COMMON`:
3. To install RCM, enter the following command:

```
$ PRODUCT INSTALL RCM /DESTINATION  
= <disk><dir> /SOURCE = <disk><dir>
```

Replace the destination `<disk><dir>` with the area you want to install the kit in, and replace the source `<disk><dir>` with the location of the extracted .PCSI file.

Note that the installation process will create a subdirectory called `[.RCM]` in the destination area.

Deinstalling

To deinstall the RCM Data Collector, enter the following command: `$ product remove rcm`

Then follow the instructions displayed on the screen.

Collecting Data

Before you can run an RCM collection you must configure the collector. The first time that you run RCM you will be prompted to answer a number of questions about who the customer is, how frequently you want the collector to run, and more. This information is stored in a configuration file and can be used next time you run RCM.

To run RCM, enter the following command, replacing `<configfilename>` with the appropriate configuration file:

```
$ @RCM$DIR:RCM_START <configfilename>.CFG
```

If this is the first time running RCM, you should run `@RCM$DIR:RCM_START.COM` without specifying a filename.

You are prompted for the following details:

Item	Note
COMPANY NAME	The name of the company owning the system.
CONTACT NAME	The name of your contact in the company owning the system.
CONTACT TELEPHONE	The telephone number for the contact.
CONTACT EMAIL	The collector sends error messages to this address.
ACCOUNT MANAGER	The name of the HP Technical Account Manager.
ACCOUNT MANAGER EMAIL	This must be an @compaq.com or an @hp.com address.
CUSTOMER ACCESS ID	Unique number used to access RCM reports. You must create this ID at the RCM web site (http://smsat.ilo.cpgcorp.net/products/rcm/index.html) before submitting a collection.
TRANSPORT OPTION	Options include FTP (the default), E-mail, DSNlink, or Manual.
COLLECTION FREQUENCY	Options include Daily, Weekly, Monthly (the default), Quarterly, or Single.
NEXT COLLECTION TIME	Time to run the next collection. Format as follows: dd-mm-yyyy hh:mm
MAX ARCHIVES	The number of collections to keep in the RCM Archive area. Default is 10.
ARCHIVE DIRECTORY	Default is <code>RCM\$ROOT:[RCM_ARCHIVE]</code>
COLLECTION DIRECTORY	Directory for RCM collections. Default is: <code>RCM\$ROOT:[RCM_ARCHIVE]</code>
LOCAL SITE	Answer Y to copy data collection to a local system. The local transport options are FTP, DECnet or E-mail.
COLLECT SAN SWITCH DATA	To collect SAN switch information for RCM SAN Configuration Reports, edit the file <code>SWITCHES.DAT</code> in the <code>RCM\$DATA</code> directory and enter the IP address and SNMP community string for each switch. Information on what you should enter and how you should format it is specified in <code>RCM\$DIR:SWITCHES_TEMPLATE.DAT</code> . Default is N.
EVA DATA COLLECTION	To collect EVA data on AlphaServer systems, in the RCM configuration file, set this option to Y and create the file <code>RCM\$DATA:EVA.INI</code> (use the format of <code>RCM\$DIR:EVA_TEMPLATE.INI</code> as a guide). The IP address of each EVA controller and a valid administrator account details are required. You must also know whether the EVA is SSSU V2 or SSSU V3.
RUN ON REBOOT	Answer Y to configure RCM to run automatically at system reboot.
NODES	The list of nodes that you want to collect data for.
<node> SYSTEM SERIAL NUMBERS	If running in a cluster environment, serial numbers for the nodes are displayed. You can overwrite these if they are incorrect. The format of the Serial Numbers must be between 6 and 12 alphanumeric characters.

You can also change a number of optional items by editing the configuration file. These optional items are documented in the *Revision and Configuration Management Data Collector for HP OpenVMS User Guide*.

If you run the data collector in a cluster environment, @RCM\$DIR:RCM_START.COM prompts you to select the nodes that you want to collect data from. The time of the next scheduled collection is calculated and a detached process is started. This will collect data on the selected nodes at the specified time. If no scheduled collections were specified (by entering N as the Collection Frequency), a collection is started immediately.

If a schedule has been set up, you can perform a once-off collection using the following command:

```
$ @RCM$DIR:RCM_START -now
```

To collect data only on the node that you are currently logged into, enter the following command:

```
$ @RCM$DIR:RCM_START -now -thisnode
```

To monitor the data collection while it is executing, enter the following command:

```
$ @RCM$DIR:RCM_STATUS
```

When the data collection is finished, the collected data is zipped to a file called RCMO-<nodename>-<timestamp>.ZIP. You must transport this ZIP file to HP Services for RCM report generation.

Scheduled RCM Collections

If more than one collection was specified, RCM collections will occur at the requested intervals. At each collection, a detached process named RCM will start. This process hibernates until the scheduled time of the next collection.

Manually Transferring Data

Some systems running RCM do not have a direct connection to the Internet.

When the data collection is completed, copy the data collection files to a machine with a direct Internet connection. To manually transport the collected data to HP Services for analysis, do one of the following:

- To e-mail the data, send the zipped file in binary mode to the PC and e-mail the (.ZIP) file, as an attachment, to: rcm.data@hp.com
- To FTP the data, send the zipped (.ZIP) file in binary mode, using anonymous FTP, to the following location:
rcm.support.compaq.com/to_rcm/
- To send the data using DSNlink, enter the following command:
\$ DSN COPY/TOOL=RCM RCMO-<nodename>-<timestamp>.ZIP
- To mail the data using VMSMAIL, mail the uuencoded (.UUE) file to the following address: rcm.data@hp.com

Further Information

Additional Quick Reference Cards are available for RCM:

- RCM Server
- RCM Data Collector for Microsoft® Windows®
- RCM (with HP UniCensus) Data Collector for Tru64 UNIX®
- RCM Data Collector for HP-UX

Further detailed information is available from the RCM web site at the following URL:

<http://h18000.www1.hp.com/support/svctools/rcm/>

Support & Feedback

Technical support is available by sending an e-mail to:

rcm.support@hp.com

If you have questions or suggestions regarding the use of RCM, we want to hear from you. Please send your questions, comments, and suggestions to:

rcm.feedback@hp.com

HP RCM Data Collector for HP OpenVMS Quick Reference Card

Overview

The HP Revision & Configuration Management (RCM) Data Collector Version 5.0 for HP OpenVMS collects configuration and revision data from HP AlphaServer and HP VAX systems.

The data collector can collect across all nodes in a cluster. The output includes hardware, storage, and software information about the systems in the cluster. The output can be viewed as a text or HTML file. The RCM data collector for HP OpenVMS can be run one time or can be configured to run on a periodic basis without manual intervention.

The collected data can be transported automatically to HP Services via e-mail, ftp, or DSNlink. When data is transferred to HP Services, it is stored on the RCM Server. The RCM team in HP Services maintains this server.

HP Services personnel may access the reporting capabilities of the RCM Server. A number of reports are available including:

- Configuration report showing detailed hardware and software configuration reports.
- Change report showing configuration or revision changes over time.
- Comparison report showing differences between two systems.
- Analysis report showing detailed patch analysis or hardware revision analysis.

More information on the RCM tools is available at the following URL:

<http://h18000.www1.hp.com/support/svctools/rcm/>

