

Enterprise Cluster Master Toolkit

Version B.04.01 Release Notes



Manufacturing Part Number: T1909-90049

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Printing History

Table 1

Printing History

Printing Date	Part Number	Edition
June 2007	T1909-90049	First Edition

The last printing date and part number indicate the current edition, which applies to the 11i v1 and 11i v2 versions of HP-UX on Serviceguard version A.11.18.

1 Enterprise Cluster Master Toolkit Version B.04.01 Release Notes

Announcements

This section announces the most important features and limitations of the Enterprise Cluster Master Toolkit B.04.01. For more information, see “What’s in this Version” on page 7.

The Enterprise Cluster Master Toolkit is a set of templates and scripts that allows configuration of Serviceguard packages for internet servers as well as for third-party database management systems. This unified set of high availability tools is being released on HP-UX 11i v1 and HP-UX 11i v2.

The Enterprise Cluster Master Toolkit is being released with the following product numbers:

HP-UX 11i v2:

- Product T1909BA — version B.04.01—documentation, software, and license

HP-UX 11i v1:

- Product B5139EA — version B.04.01—documentation, software, and license

The Enterprise Cluster Master Toolkit version B.04.01 supports the following:

- Oracle 9i
- Oracle 9i RAC
- Oracle 10g R1
- Oracle 10g R2 Database Server
- HP Common Internet File System (CIFS)

Announcements

- HP Apache
- HP Tomcat

NOTE

Oracle 9i, Oracle 9i RAC, Oracle 10g R1, and Oracle 10g R2 Database Server are not supported with Automatic Storage Management (ASM).

The Enterprise Cluster Master Toolkit is available in the following ways:

- HP-UX Application Release
- Download from <http://software.hp.com>
- Mission Critical Operating Environment (MCOE)

NOTE

If the toolkit is running on HP-UX 11i v2, then either HP 9000 servers or HP Integrity Servers are supported. If running on HP-UX 11i v1, then only HP 9000 servers are supported.

Follow the instructions in the specific `README` file that accompanies each toolkit.

The toolkits included with the ECMT have been restructured for ease of use and maintainability. The structure contains the following components:

- `README` file that contains specific information about how to use the ECM Toolkit.
- A standard interface script (`toolkit.sh`) that links the toolkit to the Serviceguard package control script.
- A configuration file for each toolkit that contains parameters you can use to customize the toolkit for your specific environment.
- A *main* script that controls the process flow of the toolkit.
- A *monitor* script that ensures the application is running while the package is up.

What's in this Version

The Enterprise Cluster Master Toolkit version B.04.01 contains:

- Support for HP CIFS and Oracle 9i and 10g with Cluster Volume Manager (CVM) 4.1 and 5.0 and Cluster File System (CFS) 4.1 and 5.0 with Serviceguard version A.11.18 on 11i v2.
- Support for HP Apache on CVM/CFS 4.1 and 5.0 with Serviceguard A.11.18 on 11i v2.
- Fix to support password protected listener monitoring.
- Fix to the Oracle toolkit for starting the Oracle database in csh shell.
- Enhanced Oracle toolkit to facilitate quicker database service registration with the listener by starting listener before database.
- Enhancements to the README file of each toolkit in the ECMT bundle.

Support for HP Apache on CVM and CFS

HP Apache supports CVM/CFS 4.1 and 5.0 on Serviceguard version A.11.18, and can be configured in the following two modes:

Active-Active: In an active-active configuration, multiple nodes can run an Apache instance while concurrently serving the same document root. To coordinate the startup and shutdown of the Apache instances with cluster node startup and shutdown, create a one-node package for each node that runs an Apache instance.

Active-Passive: In an active-passive configuration an instance of Apache web server can run on only one node at any time. A package of this configuration is a typical failover package. The active-passive support on CVM/CFS comes with a caution/limitation that no attempts should be made to start the same instance of Apache on any other node while an Apache instance is up on one node.

NOTE

In both *active-active* and *active-passive* configurations, the HP Apache installation on all nodes must reside on the shared CFS mount point.

For complete details on how to set up Apache Web server on CVM/CFS, refer the HP Apache white paper, *Configuring HP Apache Veritas CFS with HP Serviceguard on CFS/CVM* under the generic section HP Apache-based Web Server, v.2.0.x for *techtips* at <http://www.hp.com/products1/unix/webserver/apache/techtips/index.html>

Compatibility Information and Installation Requirements

Compatibility

The Enterprise Cluster Master Toolkit requires the installation of supported versions of the HP-UX operating system together with Serviceguard.

The following are compatible versions with the Enterprise Cluster Master Toolkit version B.04.01:

- HP-UX 11i v1 and HP-UX 11i v2.
Storage Management Suite 2.0 is only supported on HP-UX 11i v2.
- Serviceguard versions A.11.16, A.11.17 and A.11.18 with the following exceptions:
 - Serviceguard A.11.16 is only supported on HP-UX 11i v1 for this version of the Enterprise Cluster Master Toolkit.
 - Serviceguard A.11.17 and A.11.18 is only supported on HP-UX 11i v2 for this version of the Enterprise Cluster Master Toolkit.
- Serviceguard Extension for RAC version A.11.16 on HP-UX 11i v1 and Serviceguard Extension for RAC version A.11.17 and A.11.18 on HP-UX 11i v2 for Oracle 9i.

Serviceguard Extension for RAC requires the corresponding version of Serviceguard.

NOTE

At time of publication version B.04.01 of the ECM Toolkit supports the above versions of Serviceguard and HP-UX. Check the ECMT support matrix to see if more recent versions of these products have been certified with B.04.01.

10g RAC requires the SGeRAC Toolkit. For more information on the SGeRAC Toolkit, refer to the *Serviceguard Extension for RAC Version A.11.18 Release Notes* and the *Use of Serviceguard Extension for RAC Toolkit with Oracle 10g RAC* white paper at

Compatibility Information and Installation Requirements

<http://docs.hp.com> -> High Availability -> Serviceguard Extension for RAC -> Release Notes and White Papers

For information on support, compatibility and features, refer to the following support matrixes:

Serviceguard and *Serviceguard Extension for RAC* support matrix located at:

<http://docs.hp.com> -> High Availability -> Serviceguard or Serviceguard Extension for RAC -> Support Matrixes

Enterprise Cluster Master Toolkit support matrix located at:

<http://docs.hp.com> -> High Availability -> Enterprise Cluster Master Toolkit -> Support Matrixes

NOTE

Version B.04.01 of the ECM Toolkit only supports *Legacy packages* and does not yet support *Modular packages*, which are available in Serviceguard version A.11.18.

Compatible versions of specific database and Internet server software products are shown in the following table:

Table 1-1 Script Compatibility with Internet Servers and Databases

Internet Server or Database Name	Internet Server or Database Version (as shown in <code>swlist</code> output)	ECM Toolkit Version
Oracle	9i, 9i RAC, 10g R1 and R2	B.04.01
HP Apache Server	A.2.0.52 and later	
HP CIFS Server	A.02.02 and later	
HP Tomcat Server	A.4.1.29.00 and later	

NOTE Oracle 9i, Oracle 9i RAC, Oracle 10g R1, and Oracle 10g R2 Database Server are not supported with ASM.

Installation

The Enterprise Cluster Master Toolkit is installed in the following way:

- As an independent product, use `swinstall` to select the ECM Toolkit product number T1909BA on 11i v2 or B5139EA on HP-UX 11i v1.
- With either a HP Serviceguard Storage Management Suite bundle or Mission Critical Operating Environment (MCOE).

For more information, see the *HP Serviceguard Storage Management Suite Version A.01.01 Release Notes* (CFS 4.1) or *HP Serviceguard Storage Management Suite Version A.02.00 Release Notes* (CFS 5.0) <http://docs.hp.com> -> High Availability -> HP Serviceguard Storage Management Suite.

Locations of Internet Toolkits

The Internet toolkits are available in the following directories:

Table 1-2 Directory Pathnames of Internet Toolkits

Internet Toolkit	Directory Pathname
HP Apache Server	/opt/cmcluster/toolkit/apache
HP CIFS Server	/opt/cmcluster/toolkit/samba
HP Tomcat Server	/opt/cmcluster/toolkit/tomcat

Follow the instructions in the README file that accompanies the toolkit being used to configure as a package.

Locations of Database Toolkits

The database toolkits are available in the following directories:

Table 1-3

Directory Pathnames of Database Toolkits

Database Toolkit	Directory Pathname
Oracle	/opt/cmcluster/toolkit/oracle

Follow the instructions in the README file that accompanies the toolkit being used to configure as a package.

What Manuals are Available for This Version

The following document is shipped with version B.04.01 of the Enterprise Cluster Master Toolkit:

- *Enterprise Cluster Master Toolkit Version B.04.01 Release Notes*, (T1909-90048).
- Review the README file that accompanies the toolkit that is being used.

You should also refer to the following documents when using the Enterprise Cluster Master Toolkit:

- *Managing Serviceguard Fourteenth Edition*. This manual was extensively revised for the A.11.18 release. It describes cluster configuration and administration tasks.
- *HP Serviceguard Version A.11.18 Release Notes*. These release notes describe the new Serviceguard features and limitations available in the A.11.18 release.
- *Serviceguard Extension for RAC Version A.11.18 Release Notes*. These release notes describe the new Serviceguard Extension for RAC features and limitations available in the A.11.18 release.
- *Using Serviceguard Extension for RAC*. This manual has been developed for the A.11.18. It describes the RAC-specific extensions to Serviceguard that are used in configuring RAC clusters (formerly known as OPS clusters).
- *HP Serviceguard Storage Management Suite Version A.01.01 Release Notes*, (T2771-90030). These release notes describe suite bundles for the integration of HP Serviceguard A.11.18 with Symantec's VERITAS Storage Management 4.1.
- *HP Serviceguard Storage Management Suite Version A.02.00 Release Notes*, (T2771-90036). These release notes describe suite bundles for the integration of HP Serviceguard A.11.18 with Symantec's VERITAS Storage Management 5.0.

The above documents are available on the HP-UX documentation web site at the following URL:

<http://docs.hp.com> -> High Availability

Further Reading

Additional information about the Enterprise Cluster Master Toolkit and related high availability topics may be found on Hewlett-Packard's HA documentation web page.

Support information, including current information on patches and known problems, is available from Hewlett-Packard IT center:

<http://itrc.hp.com> -> "subscribe to security bulletins and patch digests" -> High Availability program tips and issues (Americas and Asia Pacific)

<http://europe.itrc.hp.com> -> "subscribe to security bulletins and patch digests" -> High Availability program tips and issues (Europe)

To receive the latest news about recommended patches, product support matrices, and recently supported hardware, go to the IT Resource Center site above, and subscribe to the high availability programs tips and issues digest.

Patches and Fixes in this Version

This section describes patches that are required and defects that have been fixed in version B.04.01 of the Enterprise Cluster Master Toolkit.

Required and Recommended Patches

There are no known patches at the time of this publication. However, this is subject to change without notice. For the most current information, contact your HP representative.

To receive the latest news on recommended patches, product support matrices, and recently supported hardware, subscribe to the *High Availability program tips and issues digest* on the Hewlett-Packard IT Resource Center.

Patches can be superseded or withdrawn at any time. Be sure to check the status of any patch before downloading it. An updated list of patches is available on the Hewlett-Packard IT Resource Center:

<http://itrc.hp.com> -> “subscribe to security bulletins and patch digests” -> High Availability program tips and issues (Americas and Asia Pacific).

<http://europe.itrc.hp.com> -> “subscribe to security bulletins and patch digests” -> High Availability program tips and issues (Europe).

Patches and Fixes in this Version

Fixes

The following defects have been fixed in Enterprise Cluster Master Toolkit version B.04.01. This list is subject to change without notice. For the most current information contact your HP support representative.

Defect Number Problem and Resolution

SR: 8606466572

(JAGag22046) *Problem:* Serviceguard for Linux Oracle Toolkit version A.03.00 does not correctly handle password protected listeners.

Resolution: The fix will be included in the upcoming Linux Oracle toolkit version A.03.01.

Known Problems and Workarounds

There are no known problems at the time of publication. However, this is subject to change without notice. For the most current information contact your HP support representative.

More recent information on known problems and workarounds may be available on the Hewlett Packard IT Resource Center:

<http://itrc.hp.com> -> “subscribe to security bulletins and patch digests” -> High Availability program tips and issues (Americas and Asia Pacific)

<http://europe.itrc.hp.com> -> “subscribe to security bulletins and patch digests” -> High Availability program tips and issues (Europe)

Software Availability in Native Languages

The Enterprise Cluster Master Toolkit is not available in native language versions. However, separate native language versions of documentation are available with the following options:

- AB0: Traditional Chinese
- AB1: Korean
- AB2: Simplified Chinese
- ABA: English
- ABJ: Japanese