

High Availability Monitors Version
A.04.20.11.03, A.04.20.23.05, and
A.04.20.31.07 Release Notes
HP-UX 11i v1, HP-UX 11i v2, HP-UX 11i v3

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1 High Availability Monitors Version A.04.20.11.03, A.04.20.23.05 and A.04.20.31.07 Release Notes

Announcement

In this release, High Availability Monitors™ (B5736DA) A.04.20.31.07 is released for use on the Integrity platform and PA-RISC platform with the HP-UX 11i v3 operating system. High Availability Monitors™ version A.04.20.11.03 and A.04.20.23.05 released earlier continue to be the latest for use on the PA-RISC platforms with the HP-UX 11i v1 and HP-UX 11i v2 operating system respectively. The following high availability monitors are included in this bundle:

- HA Disk Monitor - It checks the status of LVM managed disks and detects disconnected buses, power-failed or missing disks, and stale or missing mirrors. It provides the summary status for both physical and logical volumes in a volume group, and individual status for each disk, and logical volume.
- Management Information Base (MIB) Monitors - The following MIB monitors are shipped with the product:
 - HA Cluster Monitor checks the status of clusters, nodes, packages, and services of Serviceguard.
 - HA Network Interface Monitor reports the status of LAN interfaces.
 - HA System Resource Monitor checks the number of users, the system load, and the amount of file system space.

The *High Availability Monitors* (HA Monitors) bundle depends on, and includes, the Event Monitoring Service (EMS) (EventMonitoring). When you install HA Monitors, the installation process automatically installs EMS.

High Availability Monitors (B5736DA) version A.04.20.11.03, A.04.20.23.05, and A.04.20.31.07 includes media, license, and manual.

ⓘ **IMPORTANT:**

Obsolescence

High Availability Monitors has been deprecated. Post HP-UX 11i v3 release, High Availability Monitors will be replaced with Web-based Enterprise Management (WBEM) based providers.

What is in This Version

HA Monitors is upgraded to version A.04.20.31.07 to support the update of Event Monitoring Service (EMS) A.04.20.31.07.

Further Information

EMS and HA Monitors documentation is available on the Business Support Center (BSC) website at www.hp.com/go/hpux-ha-monitoring-docs. Serviceguard and Serviceguard Extension for RAC documentation is also available on the BSC website at www.hp.com/go/hpux-serviceguard-docs.

Support information is available on the Hewlett-Packard Electronic Support Center website at <http://www.itrc.hp.com>

Compatibility Information and Installation Requirements

The HA Monitors software must be installed on each node that you want to monitor. If you want to monitor the management station, then *HA Monitors* must be installed on the management station also.

Compatibility with HP-UX Releases

HA Monitors version A.04.20.11.03, A.04.20.23.05, and A.04.20.31.07 runs on HP-UX 11i v1, HP-UX 11i v2, and HP-UX 11i v3 operating system respectively.

Software Requirements

HA Monitors version A.04.20.11.03, A.04.20.23.05, and A.04.20.31.07 is dependent on Event Monitoring Service version A.04.20.11.05, A.04.20.23.06, and A.04.20.31.07 respectively. When you order the HA Monitors product, EMS software and documentation is automatically included.

NOTE: EMS is also included with other monitoring products. If you should install one of these monitors later, your present EMS software may be replaced with a later version.

Requirements for Serviceguard and Serviceguard Extension for RAC users

When you have ServiceGuard installed and want HA Monitors to be part of a package, specify the monitor as a package resource dependency when you configure the package.

The following versions of Serviceguard are compatible with version A.04.20.31.07 of HA Monitors.

- HP-UX 11i v3, Serviceguard version A.11.17.00 and later.
- HP-UX 11i v3, *Serviceguard Extension for RAC* version A.11.17.00 and later.

The following versions of Serviceguard are compatible with version A.04.20.23.05 of HA Monitors.

- HP-UX 11i v2, Serviceguard version A.11.16.00 and later.
- HP-UX 11i v2, *Serviceguard Extension for RAC* version A.11.16.00 and later.

The following versions of Serviceguard are compatible with version A.04.20.11.03 of HA Monitors.

- HP-UX 11i v1, Serviceguard version A.11.16.00 and later.
- HP-UX 11i v1, *Serviceguard Extension for RAC* version A.11.16.00 and later.

Requirements for HP OpenView Users

You must configure templates into *HP OpenView ITO* or *NNM* to view the status of *HA Monitors*. To configure, download the latest templates from the HP Software Depot website at <http://www.hp.com/go/softwaredepot> website. In the main page of the Software Depot, select **High Availability** under Product Category. In the High Availability page that opens, select **Event Monitoring Service Developer's Kit**. The templates are listed in the Developer's Kit page. Instructions are provided with the templates. You can then download the templates by clicking the **Receive for Free** button at the bottom of the page.

Requirements for Database Monitor Users

The Database Monitor is supported for the Oracle Enterprise Server version 9.2 and Informix version 9.3. Before you begin to monitor your database services, you must install the following components:

- For Oracle:
 - Oracle Net9 (for networking)
 - Oracle Intelligent Agent (for SNMP support) and any patches.

The HA Database Monitor depends on Oracle Net8 TCP/IP protocol adapter, the Oracle Intelligent Agent, the Oracle SNMP Master Agent (`master_peer` and `start_peer`), the Oracle database subagent (`absnmp`), the Oracle Listener (`tnslsnr`), and the values in the public RDBMS MIB (based on RFC 1697). For more information, please consult the Oracle 8

Enterprise Server documentation, particularly *Oracle 8 Installation Guide*, *Oracle SNMP Support Reference*, and *Oracle Net8 Administrator's Guide*.

- For Informix:
 - Informix SNMP subagent
The Informix SNMP subagent, `onsnmp`, can be started by issuing the following command:

```
$INFORMIXDIR/bin/onsrvapd -k0 -rall
```


This command causes the SNMP subagent to remain in UP state even though the Informix database may be stopped and restarted. The subagent must be active in order to be able to access the values in the `rdbms public MIB`, on which the HA Database Monitor reports.

Requirements for HA Disk Monitor Users

To use the HA Disk Monitor with disks connected by FibreChannel, you must configure the SCSI pass-thru driver, `spt0`, into the kernel. Add `spt0` to the `/stand/system` file, rebuild the kernel, and reboot.

Hardware Requirements

The disk monitor supports SCSI SE (single-ended) and F/W (fast/wide) disks, including:

- Hewlett-Packard High Availability Disk Array, Models 10 and 20
- Hewlett-Packard Disk Array with AutoRAID, Models 12 and 12H
- EMC Symmetrix arrays for both Fibre Channel and SCSI disks
- Hewlett-Packard High Availability Storage System
- Single-spindle SCSI disks
- HP High Availability Disk Array, Model 30 Fibre Channel
- HP SureStore E Disk Array XP256 for Fibre Channel and SCSI
- HP SureStore Disk Array XP128 and XP1024
- HP SureStore E Disk System, models FC10 and FC60
- HP StorageWorks Disk Array XP12000.

NOTE: The disk monitor does not support the following:

- HP-IB disks
 - HP-FL disks
 - LVM 2.0 volume groups that are available in HP-UX 11i v3
-

Disk Space and Memory Requirements

You need to have 8 MB of disk space to install HA Monitors, and a minimum of 32 MB of RAM to run HA Monitors.

Installing High Availability Monitors

High Availability Monitors can be installed on a running system in multi-user mode. You can use the software management tools in HP System Management Homepage (HP SMH)[™] or the `swinstall` command to install HA Monitors. For more information on installing and using HA Monitors, see *Using High Availability Monitors* available on the BSC website at www.hp.com/go/hpux-ha-monitoring-docs.

The HA Monitors bundle (Part number B5736DA) contains the following file sets that will be installed on Integrity platform and PA-RISC platform:

- EMS-MIBMon — The MIB (Management Information Base) monitors for cluster, networking interface, and system resources
- EMS-DskMon — Disk monitor for physical and logical volume resources configured by LVM
- EMS-DBMon — Database monitor for MIB resources

EMS and EMS HA Monitors Patch Strategy

HA Monitors (B5736DA) and EMS Framework (EventMonitoring) are in support mode for all releases of HP-UX 11i. There will be no patches for any release of HA Monitors. There will be no new enhancements and features. Only defects with severity level above 8 or defects related to security issues would be fixed.

As and when required HA Monitors will provide defect fixes via AR/OEUR media. In case of critical defects in HA Monitors, that impair the system/dependent product functioning, the fix will be made available via Web Release, which happens once every month. The fix will be made available as an installable product upgrade and can be downloaded from the HP Software Depot website at <https://h20392.www2.hp.com/portal/swdepot/try.do?productNumber=EventMonitoring>. Such fixes will be included in the HA Monitors product on the AR/OEUR media at a minimum of once each year.

In the support mode the following is applicable:

- No new EMS Monitors will be developed. Customers are encouraged to develop WBEM provider based monitors using the SysFaultMgmt framework rather than developing EMS monitors.
- Monitoring for new platforms will be accomplished through WBEM based monitoring only using the SysFaultMgmt Product.
- EMS Developers Kit will no longer be shipped with HP-UX 11i v3.

For HP-UX 11i v3 you can download the latest templates from the HP Software Depot website at <http://www.hp.com/go/softwaredepot>. In the main page of the Software Depot, select **High Availability** under Product Category. In the High Availability page that opens, select **Event Monitoring Service (EMS) Developer's Kit**. The templates are listed in the Developer's Kit page. Instructions are provided with the templates. To download the templates, click the **Receive for Free** button at the top or the bottom of the page. Select HP-UX 11.23 version A.04.20 when you select the product Specifications.

For more information about EMS Future Strategy, see the most recent Event Monitoring Service (EMS) Release Support Model (EMS Future Direction) news update available on the BSC website at www.hp.com/go/hpux-ha-monitoring-docs.

Fixes in this Version

This release does not include any defect fixes.

Documents with the Product

The following documents are available with HA Monitors:

- High Availability Monitors Release Notes (this document)
- *Using High Availability Monitors* user guide

These documents are available on the BSC website at www.hp.com/go/hpux-ha-monitoring-docs.

NOTE: There will be no more updates to the user guides titled *Using the Event Monitoring Service* and *Using High Availability Monitors*. These documents were last updated in June 2007 and are available on the BSC website at www.hp.com/go/hpux-ha-monitoring-docs.

Software Availability in Native Languages

HA Monitors does not provide native language support. However, separate native language versions of documentation are available as part of product B5736DA with the following options:

- ABA: American English
- ABJ: Japanese