

# HP WBEM Providers for OpenVMS Integrity Servers Release Notes Version 1.7

## **Abstract**

This release note describes the enhancement, known restrictions, and errors found in the WBEM software and documentation, and provides a brief description of the changes for this version.

**Revision/Update Information:**

This is a revised release note.

**Operating System:**

OpenVMS Version 8.3-1H1 for Integrity servers

**Software Version:**

HP WBEM Providers for OpenVMS, Version 1.7



© Copyright 2012 Hewlett-Packard Development Company, L.P.

Confidential computer software. Valid license from HP required for possession, use, or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel and Itanium are trademarks of Intel Corporation in the U.S. and other countries.

---

# Contents

1 Overview.....	4
WBEM Providers Available.....	4
Supported EMS Monitors.....	5
System Requirements.....	5
Enhancements and Issues Fixed.....	5
Known Problems and Limitations.....	6
Product Documentation.....	6
Software and Documentation Availability in Native Languages.....	6
Documentation Notes.....	6
Reporting Defects.....	6

---

# 1 Overview

HP Web-Based Enterprise Management Providers software, herein after referred to as WBEM Providers software, is a collection of tools used to monitor the health of HP servers and receive information about hardware such as memory, CPU, power supplies, and cooling devices. The WBEM Providers software operates in the WBEM environment. This document contains the following sections:

- [WBEM Providers Available](#)
- [Supported EMS Monitors](#)
- [System Requirements](#)
- [Enhancements and Issues Fixed](#)
- [Known Problems and Limitations](#)
- [Product Documentation](#)
- [Software and Documentation Availability in Native Languages](#)
- [Documentation Notes](#)
- [Reporting Defects](#)

## WBEM Providers Available

The WBEM Providers software is a tool that retrieves information related to various hardware devices and report to the Common Interface Model Object Manager (CIMOM).

The following table lists the Providers, and their respective functions:

CPU Instance Provider	Retrieves information about processor inventory and consolidated health of the processor subsystem.
Memory Instance Provider	Retrieves information about memory inventory and consolidated health of the memory subsystem.
Environmental Provider	Retrieves information about cooling devices (fans) and power supply (bulk power supply and AC input lines) on HP servers. They also retrieve consolidated health of cooling, and power subsystems on HP servers.
Firmware Revision Provider	Retrieves the firmware revision information for firmwares present on the system
EMS Wrapper Provider	Translates events generated by the OpenVMS Event Monitoring Service, herein after referred to as OpenVMS EMS <sup>1</sup> , into indications and reports those indications to CIMOM.
Management Process Provider	Retrieves information about Management Processor of the system.
Enclosure/ Blade OA Provider	Retrieves information about the Rack/Enclosure and blade on an Integrity server blade system.
Utilization Provider	Retrieves information about the CPU, memory, disk and network utilization.
LAN Provider	Retrieves the consolidated status of the Ethernet interfaces.
VM Provider	Retrieves the information about HP VM Guest on supported HP Integrity Servers, running HP OpenVMS.

<sup>1</sup> For more information about OpenVMS EMS, see [“Supported EMS Monitors” \(page 5\)](#).

---

**NOTE:** Although, VM provider is included in the kit, HP does not support VM Provider on OpenVMS Version 8.3-1H1 for Integrity servers.

---

## Supported EMS Monitors

OpenVMS EMS is a component that is included in the WBEM Providers software. This component monitors and captures the hardware events and saves them in an OpenVMS index file. OPENVMS\_EMS process gathers the events for the EMS Wrapper Provider. The EMS Wrapper Provider, queries the index file and wraps these hardware indications (events).

OpenVMS EMS supports the following types of monitors:

- IA64 Core Hardware Monitor (Events)
- IPMI Forward Progress Log Monitor (FPL) (Events)

For a list of events generated on OpenVMS, see *OpenVMS WBEM documentation* webpage at <http://h71000.www7.hp.com/doc/wbem.html>.

## System Requirements

The WBEM Providers software is supported on HP BL860c, HP BL870c, rx3600, and rx6600 systems running the OpenVMS Integrity servers operating system. The software requirements for using the WBEMProviders software are as follows:

- HP OpenVMS Version 8.3-1H1 for Integrity servers
- HP WBEM Services on OpenVMS Version 2.9 or later
- HP TCP/IP Services for OpenVMS Version 5.6 or later
- VMS831H11\_UPDATE-V1300 update kit or later

---

### NOTE:

- HP recommends you to install HP Systems Insight Manager (HP SIM) Version 5.2 or later to remotely administer indications and instances.
  - LAN related classes are supported on HP SIM Version 5.3.
- 

## Enhancements and Issues Fixed

This section describes the enhancements and issues fixed in this version of WBEM Providers software:

- The newly added support in the OPENVMS EMS component allows multiple instances of a given hardware or platform event to be sent to a WBEM Indication Subscriber within 24-hours. This behavior is controlled by the WBEMPROVIDERS\$EVENTS logical. For more information, see [“Documentation Notes” \(page 6\)](#).
- Exception in the LAN indication provider causes the CIMSERVER process to create 200MB dump files every ten minutes that fills up the system disk.
- WBEMPROVIDERS kit installation fails on a ODS-2 system disk with the following error:  
%PCSI-E-NOFILODS2, cannot place file  
LAN\_CS\_ENUMERATE\_INSTANCE\_NAMES\_MEMBEROFPRO.XML on ODS-2 volume  
PCSI-E-PRDREQODS5, product HP I64VMS WBEMPROVIDERS Version 1.7-16 requires  
ODS-5 volume.
- WBEM LAN Indication Provider not reporting network link UP/DOWN event.
- WBEM Providers running on a infoserver client configured system, creates lot of infoserver disks.

## Known Problems and Limitations

The following section describes the known problems for the WBEM Providers software:

- The WBEM Providers software does not display the cooling and power information on the Blades system, as the cooling and power devices are connected to enclosure and not to individual blades.
- The data retrieved from the CPU Provider, regarding the number of processor chip, processor chip status, processor/chip slot number, and the serial number is incorrect.
- In HP SIM, while viewing the instance properties, the number of licensed users is not displayed in the Configuration section.

## Product Documentation

For more information on WBEM Providers Product Release Notes, Installation and Administrator's Guide, and Data Sheets, see *OpenVMS WBEM documentation* webpage at <http://h71000.www7.hp.com/doc/wbem.html>.

## Software and Documentation Availability in Native Languages

The WBEM Providers software and documents are available only in the English language.

## Documentation Notes

The following section contains additional instructions about the use of the WBEM Providers software.

### **Changing the refresh interval of Environmental Provider**

The interval at which the Environmental Provider would refresh its cache can be set by defining the `WBEMPROVIDER_CHASSIS_REFRESHINTERVAL` logical. By default, the refresh interval is set to 3600 seconds (1 hour), if the logical is not defined. The refresh interval can be set in the range of 300 to 36000 seconds (5 minutes to 10 hours) and must be defined in terms of seconds.

For example, `$ DEFINE /SYSTEM WBEMPROVIDER_CHASSIS_REFRESHINTERVAL 3700`

### **Allowing multiple instances of the same event from OpenVMS EMS within 24-hours**

When multiple instances of a given hardware or platform event occurs, the OpenVMS EMS component by default allows only one instance of the event to be sent to a WBEM Indication Subscriber within 24-hours. This filtering is done to avoid flooding the Indication Subscriber with multiple instances of the same event.

To allow all event instances to reach the Indication Subscriber without filtering, define the `WBEMPROVIDERS$EVENTS` logical:

```
$ DEFINE /SYSTEM/EXEC WBEMPROVIDERS$EVENTS WBEMPROVIDERS_LOGALL
```

To restore the default filtering behavior of OpenVMS EMS component, deassign the `WBEMPROVIDERS$EVENTS` logical:

```
$ DEASSIGN /SYSTEM/EXEC WBEMPROVIDERS$EVENTS
```

## Reporting Defects

Contact your local HP Representative to file a defect.