

CiscoWorks Health and Utilization Monitor 1.1

Q. What is CiscoWorks Health and Utilization Monitor (HUM)?

A. CiscoWorks HUM is a Simple Network Management Protocol (SNMP)–based MIB polling application that monitors network elements (such as CPU, memory, interface/ports, links) for their availability and utilization metrics and provides historical trends.

Q. What are the key features of CiscoWorks HUM 1.1?

A. CiscoWorks HUM 1.1 provides compelling features that network administrators can use to better understand, monitor, and analyze the utilization and availability levels of devices in the network.

- Monitors CPUs, memory, Interfaces/ports for utilization and availability levels
- Historical trending on a daily, weekly, monthly, and annual basis
- Supports integration with CiscoWorks LAN Management Solutions (LMS) 3.1
- Offers comprehensive reporting such as the device dashboard, custom reports, Top-N/Bottom-N reports
- Threshold breach event notification, reporting, and event handler support

Q. How many devices can CiscoWorks HUM 1.1 monitor?

A. CiscoWorks HUM 1.1 can monitor up to 1000 devices.

Q. How many MIB objects can CiscoWorks HUM 1.1 poll?

A. CiscoWorks HUM 1.1 can poll 100,000 MIB objects, out of which 40,000 objects can be polled in 1 minute and 60,000 MIB objects can be polled in 5 minutes or above frequency.

Q. Does CiscoWorks HUM 1.1 support monitoring of non Cisco® devices?

A. No.

Q. Can CiscoWorks HUM be accessed remotely?

A. Yes.

Q. In using CiscoWorks HUM, what is meant by the terms “poller,” “template,” and “threshold”?

A. Definitions are as follows:

- Template is a collection of MIB variables logically grouped by the user or system.
- Poller is a collection of devices and MIB templates.
- Threshold is an optimal value for a MIB variable as set by the user or system.

Q. What polling intervals does CiscoWorks HUM 1.1 support?

A. The following polling intervals are supported in CiscoWorks HUM 1.1: 1 minute, 5 minutes, 15 minutes, 30 minutes, 60 minutes, 120 minutes, 240 minutes, and 480 minutes.

Q. What MIBs does CiscoWorks HUM 1.1 use to query the device?

A. CiscoWorks HUM supports the following Cisco MIBs, by default:

- CISCO-ENHANCED-MEMPOOL-MIB
- CISCO-ENVMON-MIB

- CISCO-MEMORY-POOL-MIB
- CISCO-PROCESS-MIB
- ENTITY-MIB
- OLD-CISCO-CHASSIS-MIB
- RFC1213-MIB

However, users can still compile and use other Cisco MIBs with CiscoWorks HUM.

Q. What parameters can CiscoWorks HUM monitor in a device?

- A.** CiscoWorks HUM 1.1 can monitor device performance parameters such as CPU utilization, memory utilization, interface utilization, interface availability, device availability, interface error rate, and environmental temperature and threshold violations.

Q. Can CiscoWorks HUM be used to troubleshoot device performance in a network?

- A.** Yes. CiscoWorks HUM 1.1 helps network administrators to monitor the devices that are performing below optimal levels by polling the performance-specific MIB variables and thereby providing a drill-down to the exact nature of the issue.

Q. Does CiscoWorks HUM 1.1 integrate with CiscoWorks LMS 3.1?

- A.** Yes. CiscoWorks Common Services 3.1 (part of LMS 3.1) and LMS Portal modules are prerequisites for running CiscoWorks HUM 1.1. Other CiscoWorks LMS 3.1 applications (Device Fault Manager, Internetwork Performance Monitor, Campus Manager, Resource Manager Essentials) are optional. Additionally, HUM 1.1 is not distributed on a separate CD or DVD and is part of the LMS 3.1 DVD under the single install framework.

Q. Is CiscoWorks HUM 1.1 integrated with CiscoWorks LMS 2.6?

- A.** No.

Q. Is CiscoWorks HUM 1.1 integrated with CiscoWorks LMS 3.0?

- A.** No. Equivalent HUM-1.0.1 patch release is available on top of LMS 3.0.

Q. Can CiscoWorks HUM 1.1 run without CiscoWorks LMS 3.1?

- A.** No. CiscoWorks Common Services 3.1 (part of LMS 3.1) is a prerequisite for running CiscoWorks HUM 1.1.

Q. Does CiscoWorks HUM 1.1 support devices only from the Device Credential Repository (DCR)?

- A.** Yes.

Q. Can CiscoWorks HUM 1.1 reports be cross-launched from other CiscoWorks LMS 3.1 applications?

- A.** Yes. CiscoWorks HUM 1.1 reports (device dashboard and interface reports) can be cross-launched from CiscoWorks LMS 3.1 applications such as CiscoWorks Campus Manager 5.0, CiscoWorks CiscoView 6.1.6, CiscoWorks Device Center, and CiscoWorks LMS Portal.

Q. What SKU sizes does CiscoWorks HUM 1.1 support?

- A.** CiscoWorks HUM 1.1 supports the following SKU sizes:

- SKUs
 - CWHUM-1.1-S-K9 for 50 devices
 - CWHUM-1.1-M-K9 for 300 devices
 - CWHUM-1.1-L-K9 for up to 1000 devices

- Upgrade SKUs
 - CWHUM-1.1-S2M-K9 upgrade from 50 to 300 devices
 - CWHUM-1.1-S2L-K9 upgrade from 50 to 1000 devices
 - CWHUM-1.1-M2L-K9 upgrade from 300 to 1000 devices

Alerts and Notifications

Q. What type of alerts and notifications does CiscoWorks HUM 1.1 provide?

- A.** CiscoWorks HUM 1.1 supports triggering of user-specified external commands or scripts against threshold violations and provides email notifications to network administrators. CiscoWorks HUM 1.1 does not have SNMP traps support for notifications.

Installation and Compatibility

Q. What platforms does CiscoWorks HUM 1.1 support?

- A.** CiscoWorks HUM 1.1 supports installation on Windows 2003 server and Solaris 2.9 and 2.10 platforms.

Q. What are the system requirements for CiscoWorks HUM 1.1?

- A.** Tables 1 and 2 list the server and client system requirements, respectively, to install CiscoWorks HUM.

Table 1. Server System Requirements

Component	Solaris	Windows
CiscoWorks LMS Bundle Hardware Configuration		
50 device license	1 UltraSPARC CPU with 2 GB RAM and 4 GB swap space for Solaris 9 1 UltraSPARC CPU with 4 GB RAM and 8 GB swap space for Solaris 10	1 CPU with 2 GB RAM and 4 GB swap space running Windows 2003 Server
300 device license	2 UltraSPARC CPUs with 4 GB RAM and 8 GB swap space for Solaris 9 and 10	1 CPU with 2 GB RAM and 4 GB swap space running Windows 2003 Server
1000 device license	4 UltraSPARC CPUs with 8 GB RAM and 16 GB swap space for Solaris 9 and 10	2 CPUs with 4 GB RAM and 8 GB swap space running Windows 2003 Server
Standalone Hardware Configuration		
50 device license	1 UltraSPARC CPU with 2 GB RAM and 4 GB swap space for Solaris 9 1 UltraSPARC CPU with 4 GB RAM and 8 GB swap space for Solaris 10	1 CPU with 2 GB RAM and 4 GB swap space running Windows 2003 Server
300 device license	2 UltraSPARC CPUs with 4 GB RAM and 8 GB swap space for Solaris 9 and 10	1 CPU with 2 GB RAM and 4 GB swap space running Windows 2003 Server
1000 device license	4 UltraSPARC CPUs with 8 GB RAM and 16 GB swap space for Solaris 9 and 10	2 CPUs with 4 GB RAM and 8 GB swap space running Windows 2003 Server

Table 2. Client System Requirements

Component	Requirement
System hardware	PC-compatible system with single CPU 2.4 GHz or equivalent processor, color monitor, and CD-ROM drive (ISO 9660 compliant) on the host system
Memory	512 MB minimum RAM Either of the following: <ul style="list-style-type: none"> • For Solaris: 1 GB swap space • For Windows: 1 GB virtual memory Cisco recommends that you set virtual memory and swap space to twice the size of RAM.

Operating system	<p>The recommended operating systems are:</p> <ul style="list-style-type: none"> • Windows System: <ul style="list-style-type: none"> ◦ Windows Server 2003 Standard and Enterprise Editions with Service Packs 1 and 2 ◦ Windows Server 2003 R2 Standard and Enterprise Editions with Service Packs 1 and 2 ◦ Windows XP with Service Pack 2 ◦ Windows Vista Business Edition <p>CiscoWorks HUM supports only the U.S. English and Japanese versions of these operating systems.</p> <p>Set the default locale to U.S.-English for the U.S.-English version and Japanese for the Japanese version. Installation might proceed in other locales, but there might be problems in the functionality of CiscoWorks HUM.</p> <ul style="list-style-type: none"> • Solaris System: <ul style="list-style-type: none"> ◦ Sun UltraSPARC processor with Solaris 9 and Solaris 10 with latest patches and upgrades.
Web browser	<ul style="list-style-type: none"> • Internet Explorer 6.0 Service Pack 1 • Internet Explorer 7.0 • Firefox 2.0 <p>Note: Solaris systems support only Firefox 2.0 browsers.</p>

Ordering and Fulfillment Information

Q. How do I order CiscoWorks HUM 1.1?

- A.** CiscoWorks HUM 1.1 will be available for purchase through regular Cisco sales and distribution channels worldwide. Please refer to the orderability and first customer shipment dates listed in the CiscoWorks HUM product bulletin at <http://www.cisco.com/go/hum> for more details.

Q. How is CiscoWorks HUM 1.1 licensed?

- A.** CiscoWorks HUM 1.1 is sold based on device counts. A device is represented as an IP address or a hostname. There are SKUs for 50, 300, and 1000 devices.

Q. Do I have to match up the level of device license with LMS 3.1 or can I order a lower level device license of LMS to support just a monitoring solution with CiscoWorks HUM 1.1?

- A.** Yes, to extend purchase flexibility to customers who only want to deploy a monitoring solution with CiscoWorks HUM, customers are allowed to purchase the lowest possible device license part number of CiscoWorks LMS (which is the 100 device restricted part number) and deploy CiscoWorks HUM 1.1.

For More Information

For more information about CiscoWorks Health and Utilization Monitor, visit <http://www.cisco.com/go/hum>, contact your local Cisco account representative, or send an email to the product marketing group at ask-hum-pm@cisco.com.



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