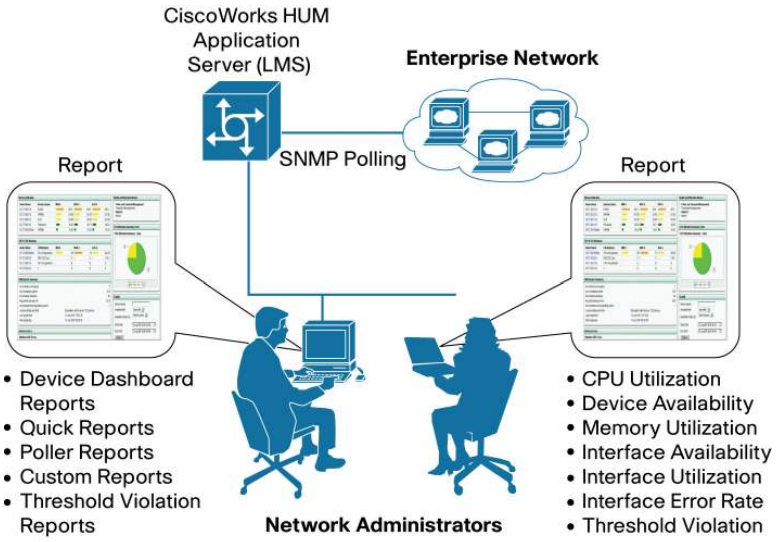
CiscoWorks Health and Utilization Monitor 1.1

Product Overview

CiscoWorks Health and Utilization Monitor (HUM) 1.1 is a Simple Network Management Protocol (SNMP)–based MIB polling application that monitors network elements (such as CPUs, memory, interfaces/ports, links) for their availability and utilization metrics and provides historical trends.

Please see Figure 1 for a CiscoWorks Health and Utilization Monitor deployment scenario.

Figure 1. CiscoWorks HUM Deployment Scenario

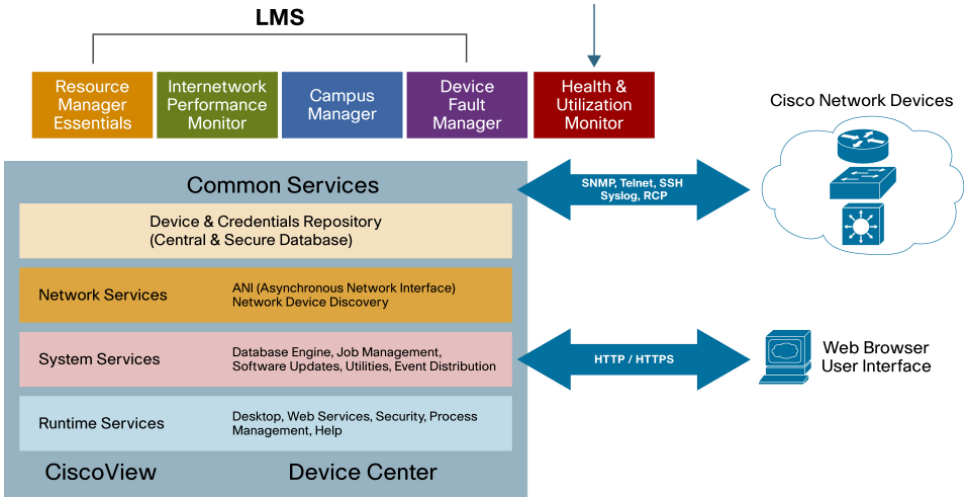


CiscoWorks HUM polls the MIB variables in a device through SNMP and collects the data. The collected data is used to generate current and historical reports that help network administrators to analyze the utilization and availability levels of devices in the network. Reports can be emailed, saved, or printed for later reference.

CiscoWorks HUM is preintegrated with CiscoWorks LAN Management Solution (LMS) 3.1 and distributed as part of the same media, under the LMS 3.1 single install framework. CiscoWorks HUM 1.1 is designed as an add-on product and fits well with the existing CiscoWorks LMS 3.1 applications. CiscoWorks HUM integrates with Cisco® Secure Access Control Server (ACS) for authorization and authentication services.

Figure 2 shows how CiscoWorks HUM is positioned within the CiscoWorks LMS architecture.

Figure 2. How CiscoWorks HUM Is Positioned within the CiscoWorks LMS Architecture



Features and Benefits

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.

The following key features are provided by CiscoWorks HUM 1.1:

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

Table 1 outlines the features and benefits of CiscoWorks HUM 1.1.

Table 1. Features and Benefits

Feature	Benefit
Easy polling setup	CiscoWorks HUM allows network administrators to create pollers by adding devices and templates using the create wizard.
Factory templates	CiscoWorks HUM provides predefined factory MIB templates. Factory MIB templates provide most of the common network parameters that are needed to monitor a device connected to the network.
Supports custom or user-defined MIB templates	Network administrators can create custom or user-defined MIB templates by using MIB variables from factory MIB templates or by grouping new MIB variables.
Threshold configuration	Network administrators can easily configure threshold values against the utilization and availability levels of device parameters such as memory, CPU, interface, and so on.
Alerts and notifications	CiscoWorks HUM has the capability to notify network administrators through email or by triggering external commands or scripts when a threshold violation is recorded.
Reports	CiscoWorks HUM generates comprehensive reports such as the device dashboard, quick reports, and Top-N/Bottom-N reports that help network administrators to analyze and troubleshoot devices connected to the network. CiscoWorks HUM reports can also be launched from other CiscoWorks LMS 3.1 applications such as CiscoWorks Campus Manager, CiscoWorks Device Center, and CiscoWorks CiscoView.
Historical trend graphs	Historical trend graphs help network administrators to analyze and forecast possible network issues and also help in device capacity planning.
Easy administration	Network administrators can perform maintenance and administrative tasks easily.

CiscoWorks LMS 3.1 integration	Network administrators can launch CiscoWorks HUM reports such as the device dashboard from other CiscoWorks LMS applications.
CiscoWorks HUM portlets	Network administrators can view important statistics and details of the devices monitored from the CiscoWorks LMS Portal application page.

Product Specifications

Table 2 lists product specifications for CiscoWorks HUM 1.1.

Table 2. Product Specifications

Item	Description
Product compatibility	CiscoWorks HUM 1.1 is compatible with CiscoWorks LMS 3.1 and above.
Software compatibility	CiscoWorks HUM 1.1 can be installed in a bundle environment along with other CiscoWorks LMS 3.1 applications or can be installed separately on top of Common Services 3.1.
Components	CiscoWorks HUM adds its own configuration, reporting UIs, and portal view on top of existing CiscoWorks LMS 3.1 applications.
Performance	CiscoWorks HUM 1.1 supports up to 1000 devices and can poll 100,000 MIB objects, out of which 40,000 MIB objects can be polled in a 1-minute interval and 60,000 MIB objects can be polled in 5-minute or above intervals.

System Requirements

Please refer to Table 3 for server requirements and Table 4 for client requirements in order to install CiscoWorks HUM 1.1.

Table 3. 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
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
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

Table 4. 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: • 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	The recommended operating systems are: • Windows System: ◦ 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 CiscoWorks HUM supports only the U.S. English and Japanese versions of these operating systems. 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. • Solaris System: Sun UltraSPARC processor with Solaris 9 and Solaris 10 with latest patches and upgrades
Web browser	• Internet Explorer 6.0 Service Pack 1 • Internet Explorer 7.0 • Firefox 2.0 **Note:** Solaris systems support only Firefox 2.0 browsers.

Service and Support

Using the Cisco Lifecycle Services approach, Cisco and its partners provide a broad portfolio of end-to-end services and support that can help increase your network's business value and return on investment. This approach defines the minimum set of activities needed, by technology and by network complexity, to help you successfully deploy and operate Cisco technologies and optimize their performance throughout the lifecycle of your network.

For More Information

For more information about the CiscoWorks Health and Utilization Monitor application, 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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