

## CiscoWorks LAN Management Solution 3.0

### General

#### **Q. What is CiscoWorks LAN Management Solution (LMS)?**

**A.** CiscoWorks LMS is an integrated suite of applications for administrating, monitoring, and troubleshooting Cisco® networks. It provides IT organizations the solid foundation of infrastructure-management capabilities that is needed to efficiently manage business-critical networks.

#### **Q. Which applications are in CiscoWorks LMS 3.0?**

**A.** CiscoWorks LMS 3.0 contains the following applications:

- CiscoWorks Campus Manager is a suite of Web-based applications designed for managing networks powered by Cisco switches. These include Layer 2 device and connectivity discovery, workflow application-server discovery and management, detailed topology views, virtual LAN/LAN Emulation (VLAN/LANE) and ATM configuration, end-station tracking, Layer 2 and 3 path-analysis tools, and IP phone user and path information.
- CiscoWorks Device Fault Manager provides real-time fault analysis for Cisco devices. It generates "intelligent Cisco traps" through a variety of data collection and analysis techniques. These can be locally displayed, e-mailed, or forwarded to other popular event-management systems.
- CiscoWorks Internetwork Performance Monitor is a network response-time and availability troubleshooting application. This tool empowers network engineers to proactively troubleshoot network performance using real-time and historical reports.
- CiscoWorks Resource Manager Essentials provides the tools needed to manage Cisco devices. It includes inventory and device change management, network-configuration and software-image management, network availability, and syslog analysis.
- CiscoWorks CiscoView is a Web-based tool that graphically provides real-time status of Cisco devices. The tool can display detailed monitoring information on interfaces and access configuration functions.
- CiscoWorks Common Services provides common management desktop services and security across CiscoWorks solutions. It also provides CiscoWorks LMS Portal, a new homepage and portal framework that can be customized to meet your individual management needs, and CiscoWorks Assistant, a new workflow engine for quick troubleshooting of network problems.

#### **Q. Where can I find additional information about these applications?**

**A.** Information about these applications is available at <http://www.cisco.com/go/lms>.

#### **Q. What are the essential features of CiscoWorks LMS?**

**A.** Essential features are:

- Cisco device discovery
- Layer 2 and Layer 3 topology and connection-path trace
- End station, IP phone, and user tracking

- VLAN management
- Configuration and software-image archiving, editing, and distribution
- Historical change and syslog auditing
- Extensive inventory tracking, end-of-sale, end-of-life, and Product Security Incident Report Team (PSIRT) reporting
- Cisco device trap and fault management
- Graphical device interface for monitoring and configuration editing
- WAN performance measurements including latency and jitter

**Q. What are the new features in CiscoWorks LMS 3.0?**

**A.** New features in CiscoWorks LMS 3.0 include:

- New installation framework, using a single DVD installer for all CiscoWorks LMS applications
- New “lightweight” HTML-based portal framework
- Workflow engine for helping with CiscoWorks setup and troubleshooting of device and phone connectivity problems
- Improved scalability
- Support for end-of-sale, end-of-life, and PSIRT reporting as well as new best practices reports
- Improved discrepancy reporting with “automated” fix
- Many new application features

**Q. Can data be upgraded from earlier CiscoWorks LMS versions to CiscoWorks LMS 3.0?**

**A.** Yes, in-place and remote data upgrades are supported from CiscoWorks LMS 2.2, 2.5, and 2.6.

### Installation and Compatibility

**Q. What platforms support CiscoWorks LMS?**

**A.** CiscoWorks LMS can be installed on select Windows and Solaris operating systems and versions.

**Q. Can all the applications within CiscoWorks LMS 3.0 be loaded on a single server?**

**A.** Yes, but for performance and scalability reasons, it is recommended that you distribute the applications onto multiple server instances, especially in networks with more than 3,000 devices. Please refer to CiscoWorks deployment guides for more information.

**Q. What are the system requirements for CiscoWorks LMS 3.0?**

**A.** Tables 1 and 2 list the CiscoWorks LMS 3.0 system requirements for server and client installations.

**Table 1.** System Requirements—Server

Part (SKU)	Solaris	Microsoft Windows
CWLMS-3.0-100-k9	Not supported	Intel Pentium 4 at 2.6 GHz for 1 CPU with 2 GB RAM memory and 4 GB swap space

<b>CWLMS-3.0-300-k9</b>	<ul style="list-style-type: none"> <li>• SunFire v210 – 1 UltraSPARC IIIi CPU at 1.3 GHz with 2 GB RAM memory and 4 GB swap space on Solaris 9</li> <li>• SunFire v210 – 1 UltraSPARC IIIi CPU at 1.3 GHz with 4 GB RAM memory and 8 GB swap space on Solaris 10</li> </ul>	Intel Pentium 4 at 2.6 GHz for 1 CPU with 2 GB RAM memory and 4 GB swap space
<b>CWLMS-3.0-1.5k-k9</b>	SunFire v440 – 2 UltraSPARC IIIi CPUs at 1.3 GHz with 4 GB RAM memory and 8 GB swap space	Windows 2003 Server Standard and Enterprise Editions with 2 Intel Xeon CPUs at 3.66 GHz and 4 GB RAM memory and 8 GB swap space
<b>CWLMS-3.0-5k-k9</b>	Dedicated Servers per product in CiscoWorks LMS Suite: SunFire v440 - 4 UltraSPARC IV CPUs at 1.3 GHz with 4 GB RAM memory and 8 GB swap space*	Dedicated Servers per product in CiscoWorks LMS Suite: Windows 2003 Server Standard and Enterprise Editions with 4 Intel Xeon CPUs at 3.66 GHz with 4 GB RAM memory and 8 GB swap space*
<b>CWLMS-3.0-10k-k9</b>	Dedicated Servers per product in CiscoWorks LMS Suite: SunFire v440 – 4 UltraSPARC IV CPUs at 1.3 GHz with 4 GB RAM memory and 8 GB swap space*	Dedicated Servers per product in CiscoWorks LMS Suite.* Windows 2003 Server Standard and Enterprise Editions with 4 Intel Xeon CPUs at 3.66 GHz with 4 GB RAM memory and 8 GB swap space*
<b>Minimum disk</b>	80 GB Disk Space	80 GB Disk Space
<b>Processor support</b>	<ul style="list-style-type: none"> <li>• UltraSPARC III (280R, 480R)</li> <li>• UltraSPARC IIIi processor (V240, V250, V440)</li> <li>• UltraSPARC IV processor (V490, V890)</li> <li>• UltraSPARC IV+ processor (V490, V890)</li> <li>• UltraSPARC T1 processor (Sun Fire T1000 Server, Sun Fire T2000 Server)</li> </ul>	<p>Intel Processors</p> <ul style="list-style-type: none"> <li>• Intel Xeon processor (Dual Core)</li> <li>• Intel Core Duo processor T2600 – T2300</li> <li>• Intel Pentium processor Extreme Edition 965 (Dual Core)</li> <li>• Intel Pentium D processor 960 (Dual Core)</li> <li>• Intel Pentium 4 processor with Hyper-Threading Technology</li> </ul> <p>AMD Processors</p> <ul style="list-style-type: none"> <li>• Dual-Core AMD Opteron Processor</li> <li>• AMD Opteron Processor</li> <li>• AMD Athlon 64 FX Processor</li> <li>• AMD Athlon 64 X2 Dual-Core</li> </ul>

**Table 2.** System Requirements—Client

System Component	Requirement
<b>Disk space</b>	<b>Solaris: 1 GB swap space</b> <b>Windows: 1 GB virtual memory</b>
Memory	512 MB
Hardware and software	IBM PC-compatible system with at least Intel Pentium IV processor running: <ul style="list-style-type: none"> <li>• Windows 2000 Professional with Service Pack 4</li> <li>• Windows 2000 Server with Service Pack 4</li> <li>• Windows 2000 Advanced Server with Service Pack 4</li> <li>• Windows Server 2003 Standard and Enterprise Edition with Service Pack 1</li> <li>• Windows 2003 R2 Server Standard and Enterprise Editions</li> <li>• Windows XP with Service Pack 2</li> </ul> Solaris 8, Solaris 9 (English and Japanese only)
Browser	<ul style="list-style-type: none"> <li>• Internet Explorer 6.0. Service Pack 2 – Windows 2000, Windows Server 2003</li> <li>• Internet Explorer 7.0</li> <li>• Firefox 2.0</li> </ul>

\* Please note that for solution servers running all products of the LMS 3.0 suite, the maximum scalability limit is 3,000 devices with the indicated hardware requirements configured with 8 GB RAM memory and 16 GB swap space.

## Ordering and Fulfillment Information

### Q. How do I order CiscoWorks LMS?

**A.** CiscoWorks LAN Management Solution is available for purchase through regular Cisco sales and distribution channels worldwide. To place an order, visit the Cisco Ordering Homepage.

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**Q. How is CiscoWorks LMS 3.0 licensed?**

- A.** CiscoWorks LMS is sold based on device counts. A device is represented as an IP address or hostname. There are SKUs for 100, 300, 1500, 5000, and 10,000 devices.

**Q. Are device counts additive?**

**A.** No, device counts are not cumulative per server. If you purchase a 100-device SKU and an additional 100-device SKU, you do not get 200 managed devices on the same server. If you have 100 devices and now want to manage 200 devices, you would need to order the 300-device support SKU.

**Q. What is the maximum number of devices that can be managed from a single server with all CiscoWorks LMS 3.0 applications installed?**

**A.** Cisco has certified and tested 3000 total devices with all applications installed on a single server instance.

**Q. Are software-support contracts available, and how are they ordered?**

**A.** Yes, you can purchase a 1-year Software Application Support (SAS) contract that provides Cisco Technical Assistance Center (TAC) support, access to software maintenance patches on Cisco.com Software Center, and CiscoWorks LMS minor update releases.

**Q. Can individual applications within CiscoWorks LMS be purchased?**

**A.** No, these CiscoWorks LMS applications are sold only as a bundled solution.

**Q. Does the CiscoWorks LMS 2.x SAS provide upgrade entitlement to the CiscoWorks LMS 3.0 release?**

**A.** No, SAS does not cover entitlement between CiscoWorks LMS 2.x and this new major software revision.

**For More Information**

For more information about the CiscoWorks LAN Management Solution, visit <http://www.cisco.com/go/lms>, contact your local Cisco account representative, or send an e-mail to the product marketing group at [lms-pm@cisco.com](mailto:lms-pm@cisco.com).



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