

## Cisco License Manager 2.2

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Cisco® announces Cisco License Manager 2.2 for managing Cisco IOS® Software activation and license management for a wide range of Cisco platforms running IOS as well as other operating systems.

### Product Overview

Cisco License Manager is a secure client/server-based application to manage Cisco IOS Software activation and license management for a wide range of Cisco platforms running IOS as well as other operating systems. It automates the workflow associated with Cisco IOS Software activation through its wizard-based GUI and scales for large network deployments. Cisco License Manager accelerates deployment of feature licenses with its intuitive GUI and a brand-new, simple, rule-based policy interface, enabling you to rapidly roll out advanced services in your networks.

Cisco License Manager 2.2 offers optional, full-functionality Java- and Perl-based Software Development Kits (SDKs) for integration with your existing license- and asset-management products and protects your investment in these assets. In addition, Cisco License Manager 2.2 integrates and coexists with CiscoWorks LAN Management Solution (LMS) 3.1 and later, and with Cisco Configuration Professional.

Cisco License Manager has enhanced security with role-based access control and limits access for each user to managed devices and Product Authorization Keys (PAKs) through access control lists (ACLs). Improved reporting capabilities aid in audit compliance.

Table 1 lists the major features for this release.

**Table 1.** Key Features of Cisco License Manager 2.2

Feature	Description and Benefit
<b>Autodiscovery and building of an inventory of licensed features</b>	Automatically discovers all devices with license enforcement capabilities. In addition, Cisco License Manager automatically collects information about all the licensed features deployed in the network and configured to automatically discover devices at predefined intervals. Helps you to plan by generating reports on which licenses you have already deployed in your network.
<b>Enhanced Device and PAK Search capabilities and management</b>	Cisco License Manager enables users with enhanced search capabilities in the list of devices and list of PAKs and highlights the matches to effectively manage devices and PAKs. In addition, Cisco License manager helps to effectively manage through drag and drop feature for Devices and PAKs.
<b>Enhanced security and virtualization</b>	<p>Cisco License Manager user-security model supports role-based access control and provides the following five user roles.</p> <ul style="list-style-type: none"> <li>• Administrator: Can access all functionality</li> <li>• Inventory Manager: Can update inventory, device access information, and all functionality available to roles below it</li> <li>• PAK Manager: Can view and manage PAKs and all functionality available to roles below it</li> <li>• License Manager: Can obtain and deploy licenses and all functionality available to roles below it</li> <li>• Reports Manager: Can only view and generate license reports</li> </ul> <p>Cisco License Manager allows you to restrict access to managed devices and PAKs through access control lists for each user. This feature enables you to virtualize one Cisco License Manager installation into multiple user views.</p> <p>Cisco License Manager can be deployed in VMWare ESX Server 3 Virtual Machine environment.</p>

Feature	Description and Benefit
<b>Obtain licenses from Cisco.com</b>	<p>With a Cisco supplied PAK, you can associate feature SKUs with devices and securely connects to the Cisco.com license server to automatically get license keys. This reduces the complexity associated with software activation. You can also obtain licenses for predeployed or offline devices.</p> <p>Cisco License Manager resides at the customer premises and has access to the customer network and needs Internet connectivity to the Cisco Website for many of its features. For isolated networks, it supports two-stage license deployment where customers can move Cisco License Manager to a network domain with Internet connectivity and obtain and save licenses to its database by securely communicating with the license server on the Cisco Website. Cisco License Manager can then be moved back to the original isolated network domain to deploy previously obtained licenses to network devices. Please see the Deploying Cisco License Manager in Isolated Networks white paper located at <a href="http://www.cisco.com/go/clm">http://www.cisco.com/go/clm</a> for more details.</p>
<b>Rapid license deployment</b>	Simple rule-based policy language completely automates software activation and license management. You can create a simple rule-based policy using common device attributes such as device model, device group, and IP address range and assign a PAK to this policy. This policy can be executed on an on-demand basis, and Cisco License Manager will automatically obtain and deploy the appropriate licenses to the managed devices, matching against the rules in the policy. This helps enable you to focus more on rolling out advanced services in your network using the licensed features.
<b>Transfer licenses from one device to another</b>	You can re-host your licenses by selecting the source and destination devices, and Cisco License Manager simplifies this procedure by securely obtaining re-host permission from Cisco.com, revoking the license from the source device and obtaining and installing the transferred license to the destination device as well as installing a temporary license for the feature being transferred to give you enough time to migrate all connections or traffic to the destination device.
<b>RMA license transfer functionality</b>	Cisco License Manager supports Return Material Authorization (RMA) license transfer functionality and enables users to transfer licenses from a failed device that is being returned through the RMA process to a new device.
<b>Agentless device management</b>	You can use Cisco License Manager to manage licenses on Cisco devices using a command-line interface (CLI) with Secure Shell (SSH) Protocol/Telnet without needing to configure or enable any agent. In addition, Cisco License Manager can communicate with the license agent in Cisco IOS Software using Extensible Markup Language (XML) over HTTPS.
<b>Detailed reporting</b>	Helps you know exactly which licensed software features you have purchased, how many licenses you have obtained and which licenses are not yet deployed as well as identify licensable features on devices and check to see if those features are activated by license. It also aids in audit compliance through its licensing reports indicating proof of purchase. Saves costs by generating redeployable license reports listing licenses that are deployed on devices but are not needed there. Return Merchandise Authorization (RMA) discrepancy report helps you identify inadvertent license discrepancies that can fail audits. Also, Cisco License Manager provides improved reporting with device capabilities and <b>filtering</b> based on various attributes.
<b>Java and Perl SDKs</b>	Allow you to integrate your license- and asset-management software with Cisco License Manager and help protect existing investments. SDKs are available for purchase for both Java and Perl.
<b>Faster failure recovery and troubleshooting</b>	<p>Helps enable you to redeploy licenses from the Cisco License Manager database in case license is accidentally removed or is corrupted. It also provides the capability to resend licenses from the Cisco.com license server for the device with failed storage and redeploy them. This results in less network downtime. Cisco License Manager also provides the capability to back up and restore its database and configuration files.</p> <p>In addition, Cisco License Manager provides detailed troubleshooting and diagnostic capabilities to identify the root cause of connectivity failure to devices and the Cisco.com license server. Cisco License Manager presents alerts from devices with ITU X.733–based severities.</p>
<b>Broad OS support</b>	<p>Cisco License Manager supports the following operating systems:</p> <ul style="list-style-type: none"> <li>• Windows Server 2003 R2 Standard Edition</li> <li>• Windows XP Professional</li> <li>• Solaris 10</li> <li>• RedHat Linux Enterprise 5</li> <li>• VMWare ESX Server 3 virtual machine environment</li> <li>• English version only</li> </ul>

## Supported Network Elements

Cisco License Manager supports the following devices:

- Cisco Catalyst 3750-E Series Switches—Cisco IOS Software Release 12.2(35)SE and later
- Cisco Catalyst 3560-E Series Switches—Cisco IOS Software Release 12.2(35)SE and later
- Cisco Catalyst Blade Server (CBS) 3100 Series Switches—Cisco IOS Software Release 12.2(35)SE onwards

- Cisco 2811, 2821, 2851, 3825, and 3845 Integrated Services Routers (modular)—Cisco IOS Software Release 12.4(15)XY and later
- Cisco 1861 Integrated Services Router - Cisco IOS Software Release 12.4(11)XW and later
- Cisco AS5350XM and AS5400XM Universal Gateways—Cisco IOS Software Release 12.4(15)XY and later
- Cisco C860 and C880 Integrated Services Routers (fixed)—Cisco IOS Software Release 12.4(15)XZ and later
- Cisco Unified Communications 500 Series for Small Business—Cisco IOS Software Release 12.4(11)XW6 and later
- Cisco Intrusion Prevention System Advanced Integration Module—Cisco IPS Software Release 6.0(4) and later
- Cisco XR 12000 Series Routers—Cisco IOS XR Software Release 3.6 and later
- Cisco ASA 5000 Series—Cisco ASA software release 7.x and later
- Cisco ASA 5500 Series Content Security Services Module(ASA-SSM-CSC-10)—Cisco 6.1.1587.0 and 6.2.1599.x
- Cisco IPS 4000 Series Sensors—Cisco IPS Software series 6.0 and later
- Cisco PIX 500 Series Appliances—Cisco PIX OS software versions 7.x and later
- Cisco MDS 9000 Family of Multilayer Switches—Cisco MDS 9000 NX-OS Version 3.3.x and 4.1.1x and later
- Cisco Nexus 7000 Family of Multilayer Switches—Cisco Nexus 7000 NX-OS Version 4.0(1) and later
- Cisco 5500 Series Wireless Controllers—Cisco Unified Wireless Networking Software Release 6.0 and later

### Availability

Cisco License Manager 2.2 can be ordered through normal sales channels beginning December 5<sup>th</sup>, 2008.

### Ordering Information

Cisco License Manager, consisting of GUI-based client and server software, is offered free and can be downloaded from Cisco.com. The optional Java and Perl SDKs are available for purchase using the part numbers in Table 2.

To place an order, visit the [Cisco Ordering Homepage](#).

**Table 2.** Ordering Information

Feature	Description and Benefit
Cisco License Manager 2.2 client and server software	Available only by download from <a href="http://www.cisco.com/cgi-bin/tablebuild.pl/clm10">http://www.cisco.com/cgi-bin/tablebuild.pl/clm10</a>
Cisco License Manager 2.2 Java Software Development Kit. One SDK is needed for each development workstation.	CLM2.2-JAVA-SDK
Cisco License Manager 2.2 Java Software Development Kit major upgrade from Cisco License Manager 2.1 Java SDK. One SDK is needed for each development workstation.	CLM2.2-JAVA-SDK-U
Cisco License Manager 2.2 Perl Software Development Kit. One SDK is needed for each development workstation.	CLM2.2-PERL-SDK

**Cisco License Manager 2.2 Perl Software Development Kit minor upgrade from Cisco License Manager 2.1 Perl SDK.**  
**One SDK is needed for each development workstation.**

CLM2.2-PERL-SDK-U

## Service and Support

Cisco License Manager GUI client and server software is offered free of cost, and no service contract is needed. A service contract is available for the optional Cisco License Manager Java and Perl SDK products, and customers must purchase a Software Application Support (SAS) contract to receive access to technical assistance through the Cisco Technical Assistance Center (TAC) or <http://www.cisco.com>. Service part numbers can be found on the Cisco.com online ordering tools and price lists.

## For More Information

For more information about Cisco License Manager, visit <http://www.cisco.com/go/clm>, contact your local Cisco sales representative, or send an e-mail to the product marketing group at [ask-clm-pm@cisco.com](mailto:ask-clm-pm@cisco.com).



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