



# CHAPTER 1

## Getting Started

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This chapter provides overview and installation information needed to use the Java application programming interface (API) with Cisco License Manager Release 2.1 and contains the following sections:

- [Overview, page 1-1](#)
  - [Installation, page 1-1](#)
  - [Using the SDK, page 1-3](#)

### Overview

Cisco License Manager provides an object-oriented Java API for client programs to invoke functions implemented in the Cisco License Manager back-end server.

The API is a set of Java class libraries in a single Java archive (JAR) file. The top-level class License Manager contains all functions that can be invoked by client programs. This is the same class library set used by the Cisco License Manager graphical user interface (GUI). This guide provides the external Java API as seen by its client programs.

### Installation

- [API Prerequisites, page 1-1](#)
- [Installing the Cisco License Manager SDK, page 1-2](#)

### API Prerequisites

The API requires Java Development Kit (JDK) Version 1.5.

The following table provides details of the recommended software and hardware requirements for the Cisco License Manager server. These recommended requirements support the maximum data capacity (30,000 Cisco devices in the network). Also use these requirements if you are installing the server and client on the same host.

**Table 0-1 Server Recommended Software and Hardware Requirements**

<b>Requirement Type</b>	<b>Requirement</b>	<b>Recommended Requirements at Maximum Capacity (30,000 Devices)</b>
	x86-based processor, 500-MHz minimum SPARC platform-based processor, 250-MHz minimum	Intel Pentium 4 3.2 GHz or equivalent CPU-based Sun UltraSPARC IIIi or equivalent CPU-based
Software	Operating system Windows XP with Service Pack 2 or later Windows 2003 Server Solaris 10 Linux: RedHat 5.0	Same
RAM	1 GB	2 GB
Disk	200 MB	10 GB

**Table 0-2 Client Workstation Recommended Software and Hardware Requirements**


## Installing the Cisco License Manager SDK

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**Step 1** Copy clm\_java\_sdk.zip from the CD to a local drive.

**Step 2**

The folder “CiscoLicenseManager\_JAVA\_SDK” is created on the local drive. It contains these files:

clm-sdk.jar

clm\_ssl\_rmi.cert

conf, a folder containing the file ClmErrorMessages.properties.

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## Using the SDK

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**Step 1**

javac -classpath <CLM\_SDK\_HOME>/clm-sdk.jar:<CLM\_SDK\_HOME>/conf MyProgram.java, where <CLM\_SDK\_HOME> is the directory that holds the CLM SDK files

```
%JAVA_HOME%\bin\keytool -import -keystore <keystore_file_path>  
                        <clm_ssl_rmi_cer_file_path>
```

```
<keystore_file_path>
```

```
C:\jdk1.5\jre\lib\security\cacerts, and <clm_ssl_rmi_cer_file_path>
```

**Step 3** Start the Cisco License Manager server. For details, refer to the [User Guide for Cisco License Manager](#)

**Step 4**

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