



# Getting Started

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## Introduction

This chapter identifies the platforms on which you can use the Java API. The chapter also describes how to install, compile, and run the API.

This chapter consists of the following sections:

- [The Java API, page 1-1](#)
- [Installing the Java API, page 1-2](#)
- [Compiling and Running a Program That Uses API, page 1-4](#)

## The Java API

The following sections provide information about the Java API:

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## Introduction

The Java API enables you to update, query, and configure the Cisco Service Control Subscriber Manager. The API has two parts, which you can use separately or together without restriction.

- Cisco Service Control Subscriber Manager Nonblocking Java API—High-performance API with low visibility to errors and other operation results. This API supports automatic integrations with OSS/AAA systems.
- Cisco Service Control Subscriber Manager Blocking Java API—Supports user-interface applications that enable you to access and manage the Cisco Service Control Subscriber Manager.

## Platforms

The Cisco Service Control Subscriber Manager Java API was developed and tested on a Windows platform, but it is operable on any platform that supports Java Version 5.0.

## Package Content

For brevity, <installdir> refers to the installation directory, sm-java-api-vvv.bb.

The <installdir>/javadoc folder contains the API JAVADOC documentation.

The <installdir>/lib folder contains the smapi.jar file, which is the API executable. It also contains additional JAR files that are required to operate the API.

Table 1-1 provides the layout of the installation directory.

**Table 1-1**      *Layout of Installation Directory*

Path	Name	Description
<installdir>	—	—
—	README	API readme file
<installdir>/javadoc	—	—
—	index.html	Index of all API specifications
—	(API specification files, and so on.)	API specification documents
<installdir>/lib	—	—
—	smapi.jar	Cisco Service Control Subscriber Manager API executable
—	asn1rt.jar	Utility jar used by the API
—	jdmkrt.jar	Utility jar used by the API
—	log4j.jar	Utility jar used by the API
—	log4j.properties	Property file needed for the API logging functionalities
—	xerces.jar	Utility jar used by the API
—	jce-jdk13-133.jar	Provides an implementation of the Java Cryptography Extension API

## Installing the Java API

The Java API is part of the Cisco Service Control Subscriber Manager Login Event Generator (LEG) distribution file and is located in the SM\_API directory.

The Cisco Service Control Subscriber Manager Java API is packaged in a UNIX tar file. The API is compiled with log4j 1.2. You can extract the Java API by using the UNIX tar utility or most Windows compression utilities:

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- [Installing on a UNIX Platform, page 1-3](#)
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## Cisco Service Control Subscriber Manager Setup

The API connects to the Proprietary Remote Procedure Call (PRPC) server on the Cisco Service Control Subscriber Manager. To enable the API to operate, the following conditions must be met:

- The Cisco Service Control Subscriber Manager must be operating, and reachable from the machine that hosts the API.
- The PRPC server must be started.

The PRPC server is a proprietary RPC protocol designed by Cisco. For more information about the PRPC server, see the *Cisco Service Control Management Suite Subscriber Manager User Guide*.

## Installing on a UNIX Platform

**Note**

The abbreviations vvv and bb represent the Cisco Service Control Subscriber Manager Java API version and build number.

To install Cisco Service Control Subscriber Manager Java API:

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- Step 1** Extract the Cisco Service Control Subscriber Manager LEG distribution file.
- Step 2** Locate the Cisco Service Control Subscriber Manager Java API distribution tar, sm-java-api-dist.tar.
- Step 3** Extract the Cisco Service Control Subscriber Manager Java API distribution tar and obtain sm-java-api-vvv.bb.tar.
- ```
#>tar -xvf sm-java-api-dist.tar
```
- Step 4** Extract the Cisco Service Control Subscriber Manager Java API package tar.
- ```
#>tar -xvf sm-java-api-vvv.bb.tar
```
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## Installing on a Windows Platform

Use a zip extractor (such as WinZip).

## Compiling and Running a Program That Uses API

To compile and run a program that uses the Cisco Service Control Subscriber Manager Java API, `smapi.jar` must be in the `CLASSPATH`.

For example, if the program source is in `SMApiProgram.java`, use the following command to compile the program:

```
#>javac -classpath smapi.jar SMApiProgram.java
```

After compiling the program, use the following command to run the program:

```
#>java -cp .;<installdir>/lib/smapi.jar SMApiProgram
```