

CA SiteMinder®

SDK Release Notes

r12.0 SP2



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Contact Technical Support

For your convenience, CA provides one site where you can access the information you need for your Home Office, Small Business, and Enterprise CA products. At <http://ca.com/support>, you can access the following:

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

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Chapter 1: Welcome

This document contains operating system support, installation considerations, known issues, fixes, and information about contacting CA Technical Support.

Chapter 2: Operating System Support

To learn about operating system support for the SDK, see the SiteMinder Platform Support Matrix for SiteMinder r12 on the Technical Support [site](#). This matrix includes supported platforms for SiteMinder r12.0 SP2.

The SDK platform support matrix is typically included with the SiteMinder Platform Support Matrix.

Note: Some platforms in previous releases might possibly no longer be supported.

Chapter 3: System Requirements

Ensure that you have the required JRE version installed. For the required version, refer to the SiteMinder Platform Support Matrix for r12 on the Technical Support [site](#). This matrix applies to r12 SP1 as well.

You can download the latest JRE version from the Sun Developer Network [SDN](#).

Applications developed with the SiteMinder SDK r12.0 SP2 cannot be run against Policy Server versions prior to v6.0.

Applications developed with a previous version of the SDK and that worked with the SiteMinder Policy Server v5.0, v5.5, and 6.x will continue to work with Policy Server r12.0 SP2.

Chapter 4: Installation Considerations

This section contains the following topics:

- [Installation on Windows](#) (see page 13)
- [Installation on UNIX in GUI mode](#) (see page 13)
- [Installation on UNIX in Console Mode](#) (see page 14)
- [Unattended Installation on Windows](#) (see page 15)
- [Unattended Installation on UNIX](#) (see page 16)
- [Uninstall the SDK](#) (see page 17)
- [Install the SDK Documentation](#) (see page 17)
- [Uninstall the SDK Documentation](#) (see page 19)

Installation on Windows

No special accounts or privileges are required to install the SiteMinder SDK. Instructions for installing a first version of the SDK and upgrading from an existing version are the same.

Do not install the SiteMinder SDK in the installation path where the Policy Server or Web Agent is installed, because there might be different versions of the same support libraries.

To install the SDK on Windows

1. Close all programs.
2. Download the SiteMinder SDK from the [CA Technical Support site](#).
3. Navigate to the win32 directory and run the following program:

```
ca-sdk-12.0-sp2-win32.exe
```

Follow the screen prompts provided by the wizard.

Installation on UNIX in GUI mode

No special accounts or privileges are required to install the SiteMinder SDK. Instructions for installing a first version of the SDK and upgrading from an existing version are the same.

Do not install the SiteMinder SDK in the installation path where the Policy Server or Web Agent is installed, because there might be different versions of the same support libraries.

On UNIX, the installation executable file is `ca-sdk-12.0-sp2-platform.bin`.

You can install the SDK in GUI mode or console mode.

To Install the SDK in UNIX GUI Mode

1. Close all programs.
2. Download the SiteMinder SDK from the [CA Technical Support site](#).
3. In a UNIX shell, navigate to the directory that corresponds to your platform (solaris, aix, linux, or hpux).
4. Enter the following command:

```
sh ./ca-sdk-12.0-sp2-platform.bin
```

platform

Replace platform with sol, aix, linux, or hp.

For example, on Solaris platforms, the command is:

```
sh ./ca-sdk-12.0-sp2-sol.bin
```

5. Follow the prompts provided by the installation wizard.

Installation on UNIX in Console Mode

No special accounts or privileges are required to install the SiteMinder SDK. Instructions for installing a first version of the SDK and upgrading from an existing version are the same.

Do not install the SiteMinder SDK in the installation path where the Policy Server or Web Agent is installed, because there might be different versions of the same support libraries.

On UNIX, the installation executable file is `ca-sdk-12.0-sp2-platform.bin`.

You can install the SDK in GUI mode or console mode.

To Install the SDK in UNIX Console Mode

1. Close all programs.
2. Download the SiteMinder SDK from the [CA Technical Support site](#).
3. In a UNIX shell, navigate to the directory that corresponds to your platform (solaris, aix, linux, or hpux).

4. Enter the following command:

```
sh ./ca-sdk-12.0-sp2-platform.bin -i console
```

platform

Replace platform with sol, aix, linux, or hp.

For example, on Solaris platforms, the command is:

```
sh ./ca-sdk-12.0-sp2-sol.bin -i console
```

Follow the screen prompts provided by the installation wizard.

Unattended Installation on Windows

After the SiteMinder SDK has been manually installed, you can install it on the same system, or a different system, using the silent installation mode. An unattended installation uses one command that points to a properties file for installation preferences. The default properties template file (sdk-installer.properties in the install_config_info folder) can be modified to suit your requirements.

To install the SDK in silent mode on Windows

1. Navigate to the directory where the SDK executable is located.
2. Enter the following command at a command prompt:

```
ca-sdk-12.0-sp2-win32.exe -i -silent -f sdk-installer.properties -i silent
```

-f

Specifies the name of the SDK installer properties file. If the properties file is not in the same directory as the installation executable file, specify the relative path to the properties file.

-i

Specifies the installation mode.

The installation is complete.

Unattended Installation on UNIX

After the SiteMinder SDK has been manually installed, you can install it on the same system, or a different system, using the silent installation mode. An unattended installation uses one command that points to a properties file for installation preferences. The default properties template file (`sdk-installer.properties` in the `install_config_info` folder) can be modified to suit your requirements.

To install the SDK in silent mode on UNIX

1. Navigate to the directory where the SDK executable is located.
2. Enter the following command at a command prompt:

```
sh ./ca-sdk-12.0-sp2-platform.bin -i -silent -f sdk-installer.properties -i silent
```

-f

Specifies the name of the SDK installer properties file. If the properties file is not in the same directory as the installation executable file, specify the relative path to the properties file.

-i

Specifies the installation mode.

The installation is complete.

To install the SDK in silent mode on UNIX

Uninstall the SDK

To uninstall the SiteMinder SDK from the UNIX console

1. In a console window, navigate to the `install_config_info/ca-sdk-uninstall` directory within the SDK installation—for example:

```
/export/ca/sdk/install_config_info/ca-sdk-uninstall
```

2. Run the following command:

```
./uninstall -i console
```

3. When prompted, press Enter to begin the uninstallation.

Note: When you are uninstalling the SDK in UNIX, make sure the JRE is in the PATH variable. If the JRE is not in the PATH variable, the following error occurs:

No Java virtual machine could be found from your PATH environment variable. You must install a VM prior to running this program.

To set the JRE in your PATH, run the following two commands:

1. `PATH=$PATH:JRE_location/bin`

For example: `PATH=$PATH:/usr/bin/jdk141/jre/bin`

2. `export PATH`

To uninstall the SiteMinder SDK from Windows:

1. From the Control Panel, double-click Add/Remove Programs.
2. Select SiteMinder SDK r12.0 SP2 and click Change/Remove.

Follow the screen prompts, and click Close when done.

Install the SDK Documentation

You install the SDK documentation separately from the SDK software. The documentation installation program installs the SDK documentation and documentation for the SiteMinder product. By default, SDK and SiteMinder documents are installed in the following location:

- UNIX: `home_directory/ca/ca_documents`
- Windows: `C:\Program Files\ca\ca_documents`

Note: If you have problems with links in the PDF documents, be sure you are using Adobe Reader as the viewer, not Adobe Acrobat.

On UNIX, the installation file is `ca-sm-doc-12.0-sp1-platform.bin`.

You can install the documentation in GUI mode or console mode.

To install the documentation in UNIX GUI mode

1. Close all programs.
2. Download the SiteMinder SDK from the [CA Technical Support site](#).
3. In a UNIX shell, navigate to the directory that corresponds to your platform (solaris, aix, linux, or hpux).
4. Enter the following command:

```
sh ./ca-sm-doc-12.0-sp1-platform.bin
```

platform

Replace platform with sol, aix, linux, or hp.

For example, on Solaris platforms, the command is:

```
sh ./ca-sm-12.0-sp1-sol.bin
```

5. Follow the screen prompts provided by the installation wizard.

To install the documentation in UNIX Console Mode

1. Close all programs.
2. Download the SiteMinder SDK from the [CA Technical Support site](#).
3. In a UNIX shell, navigate to the directory that corresponds to your platform (solaris, aix, linux, or hpux).
4. Enter the following command:

```
sh ./ca-sm-doc-12.0-sp1-platform.bin -i console
```

platform

Replace platform with sol, aix, linux, or hp.

For example, on Solaris platforms, the command is:

```
sh ./ca-sm-doc-12.0-sp1-sol.bin -i console
```

5. Follow the screen prompts provided by the installation wizard.

To install the documentation on Windows

1. Close all programs.
2. Download the SiteMinder SDK from the [CA Technical Support site](#).
3. Navigate to the win32 directory and run the following program:

```
ca-sm-doc-12.0-sp1-win32.exe
```

Follow the screen prompts provided by the installation wizard.

Uninstall the SDK Documentation

To uninstall the SDK and Policy Server documentation from the UNIX console

1. In a console window, navigate to the `install_config_info/ca-sm-doc-uninstall` directory within the documentation installation structure—for example:

```
/export/ca/ca_documents/install_config_info/ca-sm-doc-uninstall
```

2. Run the following command:

```
./uninstall -i console
```

3. When prompted, press Enter to begin the uninstallation.

To uninstall the SDK and Policy Server documentation from Windows

1. From the Control Panel, double-click Add/Remove Programs.
2. Select SiteMinder Documentation r12.0 SP2 for Policy Server and click Change/Remove.

Follow the screen prompts, and click Close when done.

Chapter 5: General Considerations

This section contains the following topics:

[Policy Management API](#) (see page 21)

[SSO Support in Custom Agents](#) (see page 21)

[Custom Agents and SiteMinder r12.0 SP2](#) (see page 22)

[LDAP SDK Integration](#) (see page 22)

Policy Management API

Significant changes to the Policy Management API occurred beginning with SiteMinder v4.5—for example, the introduction of the OID as an object’s unique identifier, and the addition of functions such as `Sm_PolicyApi_Init()` and `Sm_PolicyApi_Release()`.

Developers who continue to use Policy Management APIs from a release prior to SiteMinder v4.5 should refer to the documentation that accompanied the earlier release. Further:

- SiteMinder SDK v6.0 SP 2 and later versions do not support Policy Management APIs from releases prior to SiteMinder v5.0.
- Policy Server v5.x does not support applications built with Policy Management APIs from releases prior to SiteMinder v4.5.

SSO Support in Custom Agents

When enabled with single sign-on support, custom agents can accept the `SMSESSION` single sign-on cookie that is created by a standard SiteMinder Web Agent of a previous release.

To accept an `SMSESSION` cookie created by a custom agent, the Web Agent must be upgraded to at least:

QMR	Supported SiteMinder Agent
4.x QMR4	SiteMinder v4.x Agents
5.x QMR1	SiteMinder v5.x and v6.x Agents

To enable a SiteMinder v4.x, v5.x, or v6.x Web Agent with the appropriate QMR upgrade to accept SMSESSION cookies created by a custom agent, the Web Agent configuration file (LocalConfig.conf with IIS servers or WebAgent.conf with other servers) or central configuration object (for v5.x or higher) must contain the following entry:

```
AcceptTPCookie="yes"
```

Set AcceptTPCookie as follows:

- With 4.x QMR4 Agents and above, add AcceptTPCookie="yes" directly in the standard agent's Agent configuration file.
- With 5.x QMR1 Agents and above, add the entry to the standard agent's Agent Configuration Object if the AllowLocalConfig parameter for that object is set to no. If AllowLocalConfig is set to yes, you can set AcceptTPCookie in the Web Agent configuration file.

Custom Agents and SiteMinder r12.0 SP2

When you build a custom agent with SDK r12.0 SP2, you can run the custom Agent only against v6.0 up through r6.0 SP 5, and r12 Policy Servers.

Agents built with the SiteMinder Agent API from SDK 5.5 can be used with SiteMinder Policy Servers v5.x and v6.0 up through r6.0 SP 5.

LDAP SDK Integration

Beginning with SiteMinder v5.5 SP 1, the Policy Server is integrated with the iPlanet Directory SDK for C 5.08 (5.08 LDAP SDK). If your custom code had been linked with the older version of the LDAP SDK, you may need to re-link with the new SDK.

Chapter 6: Known Issues

This section contains the following topics:

[Patch Required for Custom Agents Running on HP-UX](#) (see page 23)

[Configuration Issue with the smpolicyapi Samplr on UNIX platforms](#) (see page 23)

[Hierarchical Realms Not Supported in the Java PM API](#) (see page 23)

[Constants Missing from Java Policy Management API \(13348\)](#) (see page 24)

[Attributes Terminated with a Space in Java \(13712\)](#) (see page 24)

[Extra ServerDef Object Created with Java AgentAPI.getConfig\(\) \(14841\)](#) (see page 25)

[Java SmPolicyApiImpl.search\(\) cannot search for a Domain Object \(15133\)](#) (see page 25)

[Sort Order in a Java SmDMSCurson Object Cannot Be Empty \(15317\)](#) (see page 25)

[General Password Validation Errors in C \(16787\)](#) (see page 25)

[Java Method getConfig\(\) Fails on Windows \(39780\)](#) (see page 25)

Patch Required for Custom Agents Running on HP-UX

Before you install a custom agent created with the Agent API on an HP-UX machine, install the following HP patch on the agent machine:

PHSS_24303 Id & linker tools cumulative patch

This patch is available at the HP web site.

Configuration Issue with the smpolicyapi Samplr on UNIX platforms

Building the smpolicyapi sample program on Unix/Linux systems requires access to several Policy Server shared libraries and the NETE_PS_ROOT environment variable set to point to them. This may be accomplished by installing the Policy Server on the system with the SDK and using ca_ps_env.ksh to set the environment.

Hierarchical Realms Not Supported in the Java PM API

Hierarchical realms are not supported in the Java Policy Management API.

Constants Missing from Java Policy Management API (13348)

The Java class `com.netegrity.sdk.policyapi.SmPasswordPolicy` is missing the following constants:

Constant Name	Constant Value
<code>Sm_PasswordPolicy_StopPriorityChaining</code>	<code>0x00000080</code>
<code>Sm_PasswordPolicy_ExpireDisablePassword</code>	<code>0x00000100</code>
<code>Sm_PasswordPolicy_FailuresDisablePassword</code>	<code>0x00000200</code>
<code>Sm_PasswordPolicy_ForceCase</code>	<code>0x00000400</code>
<code>Sm_PasswordPolicy_CaseSelect</code>	<code>0x00000800</code>
<code>Sm_PasswordPolicy_CaseBits</code>	<code>0x00000c00</code>
<code>Sm_PasswordPolicy_StripLeadingWhiteSpace</code>	<code>0x00001000</code>
<code>Sm_PasswordPolicy_StripTrailingWhiteSpace</code>	<code>0x00002000</code>
<code>Sm_PasswordPolicy_StripFlankingWhiteSpace</code>	<code>0x00003000</code>
<code>Sm_PasswordPolicy_StripEmbeddedWhiteSpace</code>	<code>0x00004000</code>
<code>Sm_PasswordPolicy_WhiteSpaceBits</code>	<code>0x00007000</code>
<code>Sm_PasswordPolicy_PreProcessBits</code>	<code>0x00007c00</code>

Workaround: If you need to set these values, use the literal values directly instead of referencing the constant name.

Attributes Terminated with a Space in Java (13712)

When `decodeSSOToken()` returns, each attribute (byte array) returned in the `AttributeList` parameter is terminated with a space character.

Workaround: Before you use the session specification and session id attributes in a `login()` call to validate the session, trim the terminating space from each byte array.

Extra ServerDef Object Created with Java AgentAPI.getConfig() (14841)

If the Java AgentAPI.getConfig() method is used to read the configuration file, it creates an InitDef object having one more ServerDef object than is actually present. The extra object does not point to any Policy Server and is just an empty object.

Java SmPolicyApiImpl.search() cannot search for a Domain Object (15133)

In package com.netegrity.sdk.policyapi, the method PolicyApiImpl.search() returns an empty list when the object type to search for is type Domain, even if valid search parameters are given.

Sort Order in a Java SmDMSCurson Object Cannot Be Empty (15317)

In the Java DMS API, any call (such as search(), getGroups(), and getMembers()) that uses an SmDmsCursor object with an empty sort order will fail.

General Password Validation Errors in C (16787)

Password validation error IDs are reported in the nMsgId parameter of Sm_PolicyApi_GetPasswordMsg(). Specific error IDs are enumerated in Sm_PolicyApi_PasswordMsgId_t. Any error ID that is not enumerated in Sm_PolicyApi_PasswordMsgId_t should be considered a general password validation error. General password validation error IDs are reported in nMsgId when Sm_PolicyApi_GetPasswordMsg() returns -38.

Java Method getConfig() Fails on Windows (39780)

In the Java class AgentAPI, the method getConfig() fails because it cannot locate the specified agent. This error only occurs on Windows platforms.

Chapter 7: Defects Fixed

This section contains the following topics:

[CLI Policy Management Method CreateChildRealm Fails \(86366\)](#) (see page 27)

[Realm Filter Not Unique Error Occurs \(85423\)](#) (see page 27)

[The decodeSSOToken Function Decodes the SSO SMSESSION Cookie Correctly \(82495/79193\)](#) (see page 28)

[The Pure Java API Supports Larger Buffer Sizes \(79220/82496\)](#) (see page 28)

CLI Policy Management Method CreateChildRealm Fails (86366)

Symptom:

The CLI policy management method CreateChildRealm fails when an agent group is specified for the realm instead of an agent.

Solution:

This problem is no longer an issue.

STAR Issue: 18113165

Note: For more information about the CreateChildRealm method, see the *Programming Guide for C*.

Realm Filter Not Unique Error Occurs (85423)

Symptom:

"Realm Filter Not Unique" error occurs during the creation of policy store objects.

Solution:

This is no longer an issue.

STAR Issue: 17107802

The decodeSSOToken Function Decodes the SSO SMSESSION Cookie Correctly (82495/79193)

Symptom:

When you use the Cookie Provider SSO that shares the static agent key and extract SMSESSION cookies from the IE HTTP session, pure Java API AgentAPI.decodeSSOToken() is unable to decode the SMSESSION cookies with return value -1.

Solution:

The pure Java API decodeSSOToken function now decodes the SSO SMSESSION cookie correctly.

STAR Issue: 17568332-1

The Pure Java API Supports Larger Buffer Sizes (79220/82496)

Symptom:

The JNI version will increase the size of the buffer to match the the size of the response from the server. The pure java agent API passes a fixed size ByteBuffer. The Pure java agent API's limit of 32784 Bytes is very small.

Star Issue 17428858-01

Solution:

The pure Java API now supports larger buffer sizes for its transport layer.

Chapter 8: International Support

An *internationalized* product is an English product that runs correctly on local language versions of the required operating system and required third-party products, and supports local language data for input and output. Internationalized products also support the ability to specify local language conventions for date, time, currency and number formats.

A *translated* product (sometimes referred to as a *localized* product) is an internationalized product that includes local language support for the product's user interface, online help and other documentation, as well as local language default settings for date, time, currency, and number formats.

In addition to the English release of this product, SiteMinder supports *only* those languages listed in the following table.

Language	Internationalized	Translated
Brazilian-Portuguese	Yes	No
Chinese (Simplified)	Yes	No
Chinese (Traditional)	Yes	No
Czech	Yes	No
Danish	Yes	No
Dutch	Yes	No
Finnish	Yes	No
French	Yes	No
German	Yes	No
Greek	Yes	No
Hungarian	Yes	No
Italian	Yes	No
Japanese	Yes	No
Korean	Yes	No
Norwegian	Yes	No
Polish	Yes	No
Russian	Yes	No
Spanish	Yes	No

Language	Internationalized	Translated
Swedish	Yes	No
Turkish	Yes	No

Note: If you run the product in a language environment *not* listed in the table, you may experience problems.

Chapter 9: Documentation

This section contains the following topics:

[SiteMinder Bookshelf](#) (see page 31)

[Release Numbers on Documentation](#) (see page 31)

SiteMinder Bookshelf

You can find complete information about SiteMinder by installing the SiteMinder bookshelf. The SiteMinder bookshelf lets you:

- Use a single console to view all documents published for SiteMinder.
- Use a single alphabetical index to find a topic in any document.
- Search all documents for one or more words.

SiteMinder product documentation is installed separately. We recommend that you install the documentation before beginning the installation process.

Documentation installation programs are available for download from the [CA Technical Support site](#).

Release Numbers on Documentation

The release number on the title page of a document does not always correspond to the current product release number; however, all documentation delivered with the product, regardless of release number on the title page, supports the current product release.

The release number changes only when a significant portion of a document changes to support a new or updated product release. If no substantive changes are made to a document, the release number does not change. For example, a document for r12 can still be valid for r12 SP1. Documentation bookshelves always reflect the current product release number.

Occasionally, we must update documentation outside of a new or updated release. To indicate a minor change to the documentation that does not invalidate it for any releases that it supports, we update the edition number on the cover page. First editions do not have an edition number.