

CA SiteMinder®

SDK Release Notes

12.52



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CA Technologies Product References

This document references the following CA Technologies products:

- CA SiteMinder®
- CA DataMinder™ (formerly CA DLP)

Contact CA Technologies

Contact CA Support

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

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- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
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Chapter 1: SDK Release Notes

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 CA SiteMinder® Platform Support Matrix for CA SiteMinder® r12 on the Technical Support [site](#). This matrix includes supported platforms for CA SiteMinder® 12.52.

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 CA SiteMinder® Platform Support Matrix for r12 on the Technical Support [site](#).

Applications developed with the SiteMinder SDK 12.52 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 12.52.

Chapter 4: Installation Considerations

This section contains the following topics:

[System Locale Must Match the Language of Installation and Configuration Directories \(169863\)](#) (see page 13)

[Considerations for Localized Installations](#) (see page 13)

[Installation on Windows](#) (see page 13)

[Installation on UNIX in GUI mode](#) (see page 15)

[Installation on UNIX in Console Mode](#) (see page 16)

[Unattended Installation on Windows](#) (see page 17)

[Unattended Installation on UNIX](#) (see page 18)

[Uninstallation of the SDK](#) (see page 18)

System Locale Must Match the Language of Installation and Configuration Directories (169863)

To install and configure a CA SiteMinder® component to a non-English directory, set the system to the same locale as the directory. Also, make sure that you installed the required language packages so the system can display and users can type localized characters in the installer screens.

For the details on how to set locale and required language packages, refer to respective operating system documents.

Considerations for Localized Installations

When installing the SiteMinder SDK on a system with a non-English operating system, remember that the `smpolicyapi` is an UTF-8 based API. The library expects UTF-8 encoded strings as input. It returns UTF-8 encoded strings as output parameters.

Installation on Windows

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

Do not install the CA SiteMinder® SDK in the installation path with the Policy Server or Web Agent. The SDK can possibly have different versions of the same support libraries.

To install the SDK

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

ca-sdk-12.52-win32.exe

Follow the wizard.

Windows Server 2008 System Considerations

For Windows Server 2008, the User Account Control feature helps prevent unauthorized changes to your system. When the User Account Control feature is enabled on the Windows Server 2008 operating environment, prerequisite steps are required before doing any of the following tasks with a CA SiteMinder® component:

- Installation
- Configuration
- Administration
- Upgrade

Note: For more information about which CA SiteMinder® components support Windows Server 2008, see the CA SiteMinder® Platform Support matrix.

To run CA SiteMinder® installation or configuration wizards on a Windows Server 2008 system

1. Right-click the executable and select Run as administrator.
The User Account Control dialog appears and prompts you for permission.
2. Click Allow.
The wizard starts.

To access the CA SiteMinder® Policy Server Management Console on a Windows Server 2008 system

1. Right-click the shortcut and select Run as administrator.
The User Account Control dialog appears and prompts you for permission.
2. Click Allow.
The Policy Server Management Console opens.

To run CA SiteMinder® command-line tools or utilities on a Windows Server 2008 system

1. Open your Control Panel.
2. Verify that your task bar and Start Menu Properties are set to Start menu and *not* Classic Start menu.
3. Click Start and type the following in the Start Search field:

Cmd

4. Press Ctrl+Shift+Enter.

The User Account Control dialog appears and prompts you for permission.

5. Click Continue.

A command window with elevated privileges appears. The title bar text begins with Administrator:

6. Run the CA SiteMinder® command.

More information:

[Contact CA Technologies](#) (see page 3)

Installation on UNIX in GUI mode

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

Do not install the CA SiteMinder® SDK in the same path as the Policy Server or Web Agent. The SDK can possibly have different versions of the same support libraries.

Note: When installing the SiteMinder SDK on Linux systems, be sure that you have the appropriate 32.bit C runtime library for your operating environment (that is, libstdc++.so.6). You can obtain this library by installing the following rpm:

- compat-gcc-34-c++-3.4.6-patch_version.i386.rpm

On UNIX, the installation executable file is `ca-sdk-12.52-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 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-12.52-OS.bin
```

OS

Replace *OS* with sol, aix, linux, suse, or hp.

For example, on Solaris platforms, the command is:

```
sh ./ca-sdk-12.52-sol.bin
```

5. Follow the wizard.

Installation on UNIX in Console Mode

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

Do not install the SDK in the installation path with the Policy Server or Web Agent. The SDK can possibly have different versions of the same support libraries.

Note: When installing the SiteMinder SDK on Linux systems, be sure that you have the appropriate 32.bit C runtime library for your operating environment (that is, libstdc++.so.6). You can obtain this library by installing the following rpm:

- compat-gcc-34-c++-3.4.6-patch_version.i386.rpm

On UNIX, the installation executable file is *ca-sdk-12.52-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 CA 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-12.52-platform.bin -i console
```

platform

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

For example, on Solaris platforms, the command is:

```
sh ./ca-sdk-12.52-sol.bin -i console
```

Follow the wizard.

Unattended Installation on Windows

After the CA 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-12.52-win32.exe -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 CA 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-12.52-platform.bin -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.

Uninstallation of 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 12.52 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 12.52](#) (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 12.52

When you build a custom agent with SDK 12.52, 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 CA SiteMinder® r12.5, the Policy Server is integrating with the Mozilla LDAP SDK for C SDK, version 6.0.7 (version 6.0.4 for HP-UX). If your custom code had been linked with an older version of the LDAP SDK, link with the new SDK. Older versions were named the iPlanet Directory SDK, or the Netscape LDAP SDK.

Chapter 6: Known Issues

This section contains the following topics:

[Installation of ETPKI Libraries](#) (see page 24)

[Patch Required for Custom Agents Running on HP-UX](#) (see page 25)

[Configuration Issue with the smpolicyapi Samplr on UNIX platforms](#) (see page 25)

[Hierarchical Realms Not Supported in the Java PM API](#) (see page 25)

[Constants Missing from Java Policy Management API \(13348\)](#) (see page 25)

[Attributes Terminated with a Space in Java \(13712\)](#) (see page 26)

[Extra ServerDef Object Created with Java AgentAPI.getConfig\(\) \(14841\)](#) (see page 26)

[Java SmPolicyApilImpl.search\(\) cannot search for a Domain Object \(15133\)](#) (see page 26)

[Sort Order in a Java SmDMSCurson Object Cannot Be Empty \(15317\)](#) (see page 26)

[General Password Validation Errors in C \(16787\)](#) (see page 27)

[Java Method getConfig\(\) Fails on Windows \(39780\)](#) (see page 27)

Installation of ETPKI Libraries

The CA SiteMinder® r12 SDK installer does not install the ETPKI libraries, which can lead to errors when you run the SDK sample applications. The ETPKI r4.x (CAPKI) installer runs in silent mode without any user interaction.

The ETPKI installer has the following usage:

```
setup.exe {install|remove} caller=callerID [options...]
```

callerID

Specifies the parent application that is installing ETPKI r4.x (CAPKI). This identifier is user-defined; it specifies the parent product. When multiple subcomponents of a product rely on CAPKI, each component uses a different identifier.

Limits: 255 characters

Options

instdir=*user_supplied_directory*

Specifies the initial installation directory. The installer considers this option only when these libraries are the first CA shared component on this system.

verbose/veryverbose

Enables diagnostic output with more or less detail.

UNIX only

env={none|user|all}

Specifies whether you can set environment variables for the specified user as follows:

- none — No environment variables set (default)
- user — The current user only (\$HOME/.profile)
- all — all users (/etc/profile)

Using the env=user or env=all option, the ETPKI installer creates the following environment variables:

- CASHCOMP — Points to the parent directory of the CAPKI installation
- CALIB — Points to the \$CASHCOMP/lib directory
- CABIN — Points to the \$CASHCOMP/bin

Example

```
[root@talon etpki-install-64]# ./setup install caller=01010101  
instdir=/home/CA/etpki verbose env=user
```

For more information, see the readme.txt file included with the SDK installation in the etpki-install subfolder.

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.

Hierarhical 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
Sm_PasswordPolicy_StopPriorityChaining	0x00000080
Sm_PasswordPolicy_ExpireDisablePassword	0x00000100
Sm_PasswordPolicy_FailuresDisablePassword	0x00000200
Sm_PasswordPolicy_ForceCase	0x00000400
Sm_PasswordPolicy_CaseSelect	0x00000800
Sm_PasswordPolicy_CaseBits	0x00000c00

Sm_PasswordPolicy_StripLeadingWhiteSpace	0x00001000
Sm_PasswordPolicy_StripTrailingWhiteSpace	0x00002000
Sm_PasswordPolicy_StripFlankingWhiteSpace	0x00003000
Sm_PasswordPolicy_StripEmbeddedWhiteSpace	0x00004000
Sm_PasswordPolicy_WhiteSpaceBits	0x00007000
Sm_PasswordPolicy_PreProcessBits	0x00007c00

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 `SmDmsCurson` 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 in 12.52

This section contains the following topics:

[Agent SDK Updated to Support SSO Zones \(168974\)](#) (see page 29)

[Failure of the createSession\(\) Method in SmSessionServer Class \(171759\)](#) (see page 29)

[Impossible to Modify the Description of an Object Using the SDK \(170888\)](#) (see page 30)

Agent SDK Updated to Support SSO Zones (168974)

Symptom:

Web agents accepted session cookies with no SSO zone name. This omission gave a session cookie from an old agent full access to all zones, regardless of configuration. This was a security defect in the SSO Zone implementation.

Solution:

Beginning in CA SiteMinder® r12.0 SP3, The CreateSSOToken interface now supports inserting the SM_AGENTAPI_ATTR_SSOZONE attribute into the session token. The DecodeSSOToken reads the SSOZONE attribute from the provided token and places its value in the attribute list.

The JAVA Agent API SDK, includes the new attribute type ATTR_SSOZONE in the AttributeList class.

If the token has no SSOZONE attribute, the default value is "SM."

Star issue:

Failure of the createSession() Method in SmSessionServer Class (171759)

Symptom:

The createSession() method in SmSessionServer class (com.netegrity.policyserver.smap) failed to create a session in 12.0.5.02 build 841, but reportedly worked in 12.5.0.0 (GA) and confirmed to work in 6.0.6.10.

Solution:

The issue is a result of an incorrect merge and has been corrected.

Star issue 21440836-1.

Impossible to Modify the Description of an Object Using the SDK (170888)

Symptom:

Users were not able to modify the description of an ACO using the SDK API.

Solution:

This issue has been corrected.

Chapter 8: Defects Fixed in 12.51

This section contains the following topics:

[Incorrect Values in smreghost.sh file of 64-bit Java SDK \(165718\)](#) (see page 31)

[Application Server Agent fails to Reconnect to Policy Server \(167819\)](#) (see page 31)

[Policy Management API Performance Issues \(169497\)](#) (see page 32)

[Running C Sample Program with a 4.x Agent Requires Setting an Environment Variable \[156186\]](#) (see page 32)

[Decoding SSO Token Degrades Performance \(159533\)](#) (see page 32)

[Error when Customizing Validity Duration of SAML Service Provide Object \(153929\)](#) (see page 33)

[smtest Tool Errors when Run from the bin64 Directory \(CQ162346\)](#) (see page 33)

[IdentityMinder and SiteMinder Policy Server Connection Issue \(CQ158253\)](#) (see page 34)

Incorrect Values in smreghost.sh file of 64-bit Java SDK (165718)

Symptom:

The smreghost.sh file included with the 64-bit Java SDK had incorrect values for the following variables:

- JAVA_HOME
- SMREGHOST_CLASSPATH

Solution:

This issue is fixed.

STAR Issue # 21181913:01

Application Server Agent fails to Reconnect to Policy Server (167819)

Symptom:

After a network failure, an application agent fails to reconnect to the Policy Server.

Solution:

The issue is fixed.

STAR issue: 20619959-1

Policy Management API Performance Issues (169497)

Symptom:

Custom applications experience poor performance when manipulating large numbers of policy objects using the Policy Management API.

Solution:

This is no longer an issue.

STAR issue: 21359599-1

Running C Sample Program with a 4.x Agent Requires Setting an Environment Variable [156186]

Setting the environment variable for FIPs only is required for running the SmAgentAPI 'C' Samples for the 4x Agent connection to work. Make sure that this environment variable is set as follows:

```
export CA_SM_PS_FIPS140=ONLY.
```

After setting this environmental variable the SmAgentAPI 'C' Samples started working.

This setting is not required for 5.x agents.

Decoding SSO Token Degrades Performance (159533)

Symptom:

Expected behavior:

The decodeSSOToken method is to call the doManagement method every 30 seconds.

Actual behavior:

The decodeSSOToken method calls the doManagement method every time the SDK agent calls the decodeSSOToken method.

Solution:

The issue is fixed. The expected behavior occurs.

STAR issue: 21052982-3

Error when Customizing Validity Duration of SAML Service Provide Object (153929)

Using the C API SDK application to complete the following items results in an error:

- Customize the validity duration of the SAML Service Provider object.
- Configure the SAML 2.0 authentication scheme to validate the TARGET URL.

The error is as follows:

-157(Sm_PolicyApi_SAML_UnknownProperty)

smtest Tool Errors when Run from the bin64 Directory (CQ162346)

Valid on Windows 2008

Symptom:

I installed the test tool and saw the following error message when I tried to run it from the bin64 directory:

libetpki2.dll not found

Solution:

This issue is fixed.

STAR Issue # 20994844:01

IdentityMinder and SiteMinder Policy Server Connection Issue (CQ158253)

Valid on RedHat

Symptom:

I received the following error message:

```
WARN [org.jboss.resource.connectionmanager.JBossManagedConnectionPool] (main)
Throwable while attempting to get a new connection: null
javax.resource.spi.EISSystemException: Cannot connect to policy server: Failed to
init Agent API: -
```

Solution:

This issue is fixed.

STAR Issue # 20950919:01

Chapter 9: Documentation

This section contains the following topics:

[CA SiteMinder® Bookshelf](#) (see page 35)

[Release Numbers on Documentation](#) (see page 35)

CA SiteMinder® Bookshelf

Complete information about CA SiteMinder® is available from the CA SiteMinder® bookshelf. The CA SiteMinder® bookshelf lets you:

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

View and download the CA SiteMinder® bookshelf from the [CA Technical Support site](#). You do not need to log in to the site to access the bookshelf.

If you plan to download the documentation, we recommend that you download it before beginning the installation process.

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.