

CA SiteMinder®

SDK Release Notes

r12.0 SP3



Third Edition

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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: New in This Release

This section contains the following topics:

[New SAML Properties](#) (see page 9)

New SAML Properties

This release includes the following new SAML properties:

- SAML_DSIG_ALGO specifies the Digital Signature Algorithm.
- SAML_SP_ONE_TIME_USE specifies that an assertion is used only once in the affiliate. For SAML1.x, the following C++ functions have been added:
 - Sm_PolicyApi_AddOnceTimeUsePropertyToAffiliate()
 - Sm_PolicyApi_GetOneTimeUsePropertyFromAffiliate()

Chapter 3: 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 SP3.

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 4: 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](#).

Applications developed with the SiteMinder SDK r12.0 SP3 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 SP3.

Chapter 5: Installation Considerations

This section contains the following topics:

[Considerations for Localized Installations](#) (see page 15)

[Installation on Windows](#) (see page 15)

[Installation on UNIX in GUI mode](#) (see page 17)

[Installation on UNIX in Console Mode](#) (see page 18)

[Unattended Installation on Windows](#) (see page 19)

[Unattended Installation on UNIX](#) (see page 20)

[Uninstallation of the SDK](#) (see page 20)

Considerations for Localized Installations

Consider the following before installing the SiteMinder SDK on a system with a non-English operating system:

- Localized versions of SiteMinder must be installed on a corresponding operating system.

For example, you must install a Japanese version of the SiteMinder SDK on a Japanese operating system. A Japanese version of the SDK will not run properly on an English operating system.

- The `smpolicyapi` is a UTF-8 based API and thus expects UTF-8 encoded strings as input and returns UTF-8 encoded strings as output parameters.

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 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-12.51-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 SiteMinder component:

- Installation
- Configuration
- Administration
- Upgrade

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

To run 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 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 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 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 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 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-12.51-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-12.51-OS.bin
```

OS

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

For example, on Solaris platforms, the command is:

```
sh ./ca-sdk-12.51-sol.bin
```

5. Follow the 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 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-12.51-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-12.51-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-12.51-sol.bin -i console
```

Follow the 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-12.51-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 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-12.51-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 r12.0 SP3 and click Change/Remove.

Follow the screen prompts, and click Close when done.

Chapter 6: General Considerations

This section contains the following topics:

- [Policy Management API](#) (see page 23)
- [SSO Support in Custom Agents](#) (see page 23)
- [Custom Agents and SiteMinder r12.0 SP3](#) (see page 24)
- [LDAP SDK Integration](#) (see page 24)

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 SP3

When you build a custom agent with SDK r12.0 SP3, 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 7: Known Issues

This section contains the following topics:

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

[Running C Sample Program with a 4.x Agent Requires Setting an Environment Variable \[156186\]](#) (see page 25)

[Configuration Issue with the smpolicyapi Samplr on UNIX platforms](#) (see page 26)

[Hierarchical Realms Not Supported in the Java PM API](#) (see page 26)

[Constants Missing from Java Policy Management API \(13348\)](#) (see page 26)

[Attributes Terminated with a Space in Java \(13712\)](#) (see page 27)

[Extra ServerDef Object Created with Java AgentAPI.getConfig\(\) \(14841\)](#) (see page 27)

[Java SmPolicyApiImpl.search\(\) cannot search for a Domain Object \(15133\)](#) (see page 27)

[Sort Order in a Java SmDMSCurson Object Cannot Be Empty \(15317\)](#) (see page 27)

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

[Java Method getConfig\(\) Fails on Windows \(39780\)](#) (see page 28)

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.

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.

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
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 `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 8: Defects Fixed in r12 SP3

This section contains the following topics:

- [smjavaagentapi.jar has more dependencies than documented](#) (see page 29)
- [Importing Policy Store Through Java SDK Fails \(140561\)](#) (see page 29)
- [Java SDK Client No Longer Fails when Re-initializing Crypto Factory \(135784\)](#) (see page 30)
- [SmDmsUser.getGroups\(\) and SmDmsUser.getRoles\(\) Function Calls \(135395\)](#) (see page 30)
- [SAML 2.0 Assertion Does Not Have the Correct Timestamp \(128759\)](#) (see page 31)
- [Session Index Updates Causes SLO to Fail \(123496\)](#) (see page 31)
- [Policy Server Restart Was Required for a Trusted Host \(95465\)](#) (see page 32)
- [Pure Java Agent API Ignores and Overwrites Session ID \(113753\)](#) (see page 32)
- [DMS API getGroups Method Failed \(114378\)](#) (see page 32)
- [Java API Could Not Retrieve New Password Value \(114394\)](#) (see page 33)

smjavaagentapi.jar has more dependencies than documented

Symptom:

The smjavaagentapi.jar has additional dependencies (smerrlog.dll and smcommonutil.dll) that were not documented.

Solution:

These additional libraries have been documented in the following topic: Implement the JNI Java Agent API.

Star issue: 20495399-1

Importing Policy Store Through Java SDK Fails (140561)

Symptom:

Importing the policy store through Java SDK fails with the crypto factory initialization error.

Solution:

This is no longer an issue.

STAR Issue: 20368125-1

Java SDK Client No Longer Fails when Re-initializing Crypto Factory (135784)

Symptom:

The first time crypto factory is initialized is when the Policy Server Starts up. So a request from java API SDK client was re-initializing the crypto factory in the SmTransact code. Therefore it was returning the error that “Unable to initialize crypto factory when using Java API”

Solution:

If the crypto factory is already initialized, an exception is not thrown when a JDK client tries to re-initializes it.

Star issues: 20170410-01; 20214913-1

SmDmsUser.getGroups() and SmDmsUser.getRoles() Function Calls (135395)

Symptom:

The result from function calls SmDmsUser.getGroups() and SmDmsUser.getRoles() are not as expected.

Solution:

This is no longer an issue.

STAR Issue: 19302584-1

SAML 2.0 Assertion Does Not Have the Correct Timestamp (128759)

Symptom:

The SAML assertion generated by SiteMinder does not contain the expected timestamp because of the `SessionNotOnOrAfter` attribute that SiteMinder automatically adds to the assertion. You cannot omit this parameter.

Solution:

To make the configuration of the `SessionNotOnOrAfter` assertion parameter more flexible, two new properties have been added to the C and Perl CLIs.

The two properties are:

- `SAML_SP_CUSTOM_TIME_OUT`
- `SAML_SP_SESSION_NOTORAFTER_TYPE`

For more information about these properties, see the *Programming Guide for C* or the *Programming Guide for Perl*.

STAR Issue: 19635319

Session Index Updates Causes SLO to Fail (123496)

Symptom:

A user authenticates at the IdP and is redirected back to the SP with an assertion. If the user clicks the browser back button upon returning to the SP, the session index is updated and stored in the SP session store.

When the user logs out, SiteMinder uses the session index from the original assertion, resulting in a session index mismatch. Single logout, if configured, fails.

Solution:

A new SAML 2.0 property named `SAML_SP_REUSE_SESSION_INDEX` has been added to the C and Perl CLIs. Enable this property so single log out works with third-party partners that do not honor the session index passed in newer assertions.

STAR Issue: 19613507-1

Policy Server Restart Was Required for a Trusted Host (95465)

Symptom:

A trusted host created by the C API could not be used without a Policy Server restart.

Solution:

The Policy Server is fixed to write the buffered server commands before the store is released. A restart is no longer required.

STAR issue: 17966870

Pure Java Agent API Ignores and Overwrites Session ID (113753)

Symptom:

The pure Java API was not correctly setting the Session ID when passed by the SessionDef parameter.

Solution:

This issue is fixed.

STAR Issue: 19043761

DMS API getGroups Method Failed (114378)

Symptom:

The DMS API getgroups method fails with a "Failed to create a sorting LDAP control" error message.

Solution:

This is no longer an issue.

STAR Issue: 18891341

Java API Could Not Retrieve New Password Value (114394)

Symptom:

The Java Authentication API could not retrieve a new password value. A new method has been added to return this value.

Solution:

This issue is fixed.

The UserCredentialsContext class contains the following new method: `getNewPassword`.

STAR Issue: 18921774:03

Chapter 9: Defects Fixed in r12 SP1 and SP2

This section contains the following topics:

[Realm Filter Not Unique Error Occurs \(85423\)](#) (see page 35)

[The decodeSSOToken Function Decodes the SSO SMSESSION Cookie Correctly \(82495/79193\)](#) (see page 35)

[The Pure Java API Supports Larger Buffer Sizes \(79220/82496\)](#) (see page 36)

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 10: 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 user interface of the product, online help and other documentation, as well as local language default settings for date, time, currency, and number formats.

SiteMinder has been internationalized and localized to the extent indicated in the platform support matrix for SiteMinder r12sp3 J

Chapter 11: Documentation

This section contains the following topics:

[SiteMinder Bookshelf](#) (see page 39)

[Release Numbers on Documentation](#) (see page 39)

SiteMinder Bookshelf

Complete information about SiteMinder is available from 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.

View and download the 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.