

CA SiteMinder®

Web Agent Release Notes

12.52 SP1



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CA Technologies Product References

This document references the following CA Technologies products:

- CA SiteMinder®

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Contact CA Support

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- 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: Operating System Support

For a list of supported platforms:

1. Log in to the [Technical Support](#) web site.
2. Search for the CA SiteMinder® Platform Matrix.

Note: Some platforms supported in previous releases may no longer be supported. For more information on required service packs or patches, see the *Web Agent Installation Guide*.

Chapter 2: New Features

This section contains the following topics:

[New Features for r12.52 SP1](#) (see page 11)

New Features for r12.52 SP1

There are no new features for the Web Agent in this release.

Chapter 3: Changes to Existing Features

Upgrade of CAPKI

CA SiteMinder® is upgraded to use CAPKI 4.3.4 to fix the following OpenSSL vulnerabilities:

- CVE-2014-0224: An SSL/TLS MITM vulnerability exists in OpenSSL 0.9.8y and earlier. An attacker using a carefully crafted handshake can force the use of weak keying material in OpenSSL SSL/TLS clients and servers. This can be exploited by a Man-in-the-middle (MITM) attack where the attacker can decrypt and modify traffic from the attacked client and server.
- CVE-2014-0221: DTLS recursion flaw exists in OpenSSL 0.9.8y and earlier. By sending an invalid DTLS handshake to an OpenSSL DTLS client, the code can be made to recurse, eventually crashing in a DoS attack.
- CVE-2014-3470: Anonymous ECDH denial of service flaw exists in OpenSSL 0.9.8y and earlier. OpenSSL TLS clients enabling anonymous ECDH ciphersuites are subject to a denial of service attack.
- CVE-2014-0076: Fix for the attack described in the paper "Recovering OpenSSL ECDSA Nonces Using the FLUSH+RELOAD Cache Side-channel Attack".

For more information about the vulnerabilities, see the OpenSSL documentation.

Chapter 4: Installation and Upgrade Considerations

System Locale Must Match the Language of Installation and Configuration Directories

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.

Local Fonts and Packages Required to Support International Language Versions of CA SiteMinder® Installers

To type local characters in international language versions of CA SiteMinder® installation and configuration programs in GUI mode, install fonts for that language on your operating environment.

For the RedHat Linux operating environment, download the packages shown in this [document](#).

Java Virtual Machine Installation Error on Solaris can be Ignored (149886)

Symptom:

You are doing a console mode installation of a CA SiteMinder® product on a Solaris platform. The following error message displays: "Unable to install the Java Virtual Machine included with this installer."

Solution:

Ignore this error message. The error is a third-party issue and it has no functional impact.

Forms Credential Collector (FCC) Does Not Allow Windows Authentication By Default

The FCC can authenticate users against any authentication scheme. However, the FCC no longer authenticates against Windows authentication schemes by default. This behavior prevents an attacker from exploiting the FCC to generate a CA SiteMinder® session for any valid Windows user in certain configurations.

If your environment requires the FCC to authenticate against the Windows authentication scheme, you can enable it by specifying the EnableFCCWindowsAuth agent configuration parameter. However, before you enable FCC support for Windows authentication, review the risks of doing so and be aware of configurations that expose the vulnerability.

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)

Console Mode not Supported on Windows Operating Environments (CQ143654, 152120)

Valid on Agents for IIS

Symptom:

I want to configure a CA SiteMinder® Agent for IIS using console mode.

Solution:

Console mode is not supported for configuring Agents for IIS.

SiteMinder Web Agent for z/OS Limitations

The CA SiteMinder® Web Agent on the z/OS operating system has the following limitations:

- Advanced Password Services (APS) is not supported.
- Only FIPS-compatibility mode is supported.

Chapter 5: Agent Defects Fixed in 12.51

Web Agent returns a 500 Error (152352)

Symptom:

If a firewall is between a web agent and a Policy Server, the web agent sometimes returns a 500 error, instead of the requested resource.

Solution:

1. Log in to the web agent host system.
2. Create the following environment variable:
`SM_ENABLE_TCP_KEEPALIVE`
3. Enable the variable with the following value:
`1`

A 403 Error at a Specific URL [153975]

Symptom:

Whenever a resource protected under an anonymous authentication scheme is accessed, the html GET operation goes into a loop. This error occurs in cr6 and later.

Solution:

This problem has been fixed.

Star issue 20782764;1

Agent for SharePoint 2010 Does Not Honor the TraceFileSize ACO Parameter [154214]

Symptom:

Agent for SharePoint 2010 does not honor the TraceFileSize ACO parameter. The primary reason for this issue was with the agent framework code flow for multiple thread mode.

Solution:

This issue has been fixed in Secure Proxy Server r12.5. The same code is carried over to SM r12.51.

Star issue 20690455;1

When the Cookie Provider Was Enabled, the OnReject-Redirect Response Was Not Triggered [154278]

Symptom:

The root cause of the this error was that the current web-agent code was not handling authorization responses properly

Solution:

This is no longer a problem.

Star issue 20835443

Need Apache-based web agent to support "restart" option (CQ155242)

Symptom:

An enhancement request to support a restart option on the Apache-based servers was received.

Solution:

This issue is fixed.

STAR Issue # 20919250:01

When Using NTLM Authentication, the Agent Set the Client IP to the IP of the Load Balancer [155778]

Symptom:

With the NTLM Authentication scheme, the client IP address was set to the IP address of the Load Balancer.

Solution:

This issue has been resolved. The agent sets the client IP address correctly.

Start issue 20924807;1, 20709714;1

Agent Using an SDK Script to Update ACO Agentname Parameter Lost Its Configuration [155790]

Symptom:

Agent configuration properties were deleted before saving the updates, The updates were not immediately to the Policy Server.

Solution:

Instead of deleting the agent configuration properties, the agent updates the agent configuration properties.

Star issue 20932855

Double Session Cookie [155893]

Symptom:

Two sets of the Decoded CSISESSION cookie and the Processed CSISESSION cookie appeared in the WA trace log. This situation occurred when the same prefix was used for ssozonename and ssotrustedzone.

Solution:

This problem has been corrected.

Star issue 20947178-1

SNMP Trap Not Getting Generated When Using Hostname [156834]

Symptom:

When modifying the snmptrap.conf file using the hostname instead of an IP address, the SNMP traps are not generated in the /tmp/var/messages file.

Solution:

The snmp trap messages appear when hostname or ipaddress are specified in the snmptrap.conf file.

Star issue 20832997-01

IHS Agent on AIX Failed in a Reverse Search of the DNS [156848]

Symptom:

The DNS Reverse lookup did not work because a data structure was not setup correctly.

Solution:

This problem has been fixed.

Star issue 20812109-1

32-bit Agent Configuration Wizard Was Unable to Detect 32-bit ASF Apache [157236]

Symptom:

The 32-bit CA SiteMinder® R12.5 agent was unable to detect the 32-bit ASF Apache 2.2.22 on a 64-bit Windows 2008 R2 system. The configuration wizard returned fatal errors when fetching the web server list.

Solution:

This problem has been fixed.

Star issue 20960444-02

SOAP Fault Response Not Returned on Unsuccessful Authentication [157653]

Symptom:

Apache was serving as a reverse proxy. Web services were deployed on the application server (tomcat). If an authentication and authorization failure occurred, the SOA agent did not return a SOAP fault message. Instead, the SOA agent returned a "500 Internal Server Error" message.

Solution:

This issue has been corrected.

Star issue 20931085-1

X-FRAME-OPTIONS Header at Website Level Did Not Display [158163]

Symptom:

X-FRAME-OPTIONS header at the website level unable to be shown on login.fcc on Windows 2003.

Solution:

The issue has been corrected.

Star issue 21012929-1

ISAPI6WebAgent.dll Not Unloading Properly (CQ158451)

Valid on Windows 2008 R2

Symptom:

The ISAPI6WebAgent.dll was not unloading properly.

Solution:

This issue is fixed.

STAR Issue # 20985107:01

Global Idle Timeout Related Failure (CQ160868)

Valid on RedHat

Symptom:

Any Idle timeouts using global override caused a looping redirect to an NTC credential collector.

Solution:

This issue is fixed.

STAR Issue # 21025754:01

Installation Wizard fails to Create Agent Configuration File (161826)

Valid on Red Hat Apache

Symptom:

The Web Agent installation wizard does not create the following file for HTTP Basic over SSL authentication:

WebAgent.conf

Solution:

This issue is fixed.

STAR issue: 21075584-2

Remote User Variable Not Populated in Integrated Mode (CQ162179)

Valid for Windows 2008 R2

Symptom:

The Remote User variable was not populated when my web application ran in integrated mode.

Solution:

This issue is fixed.

STAR Issue # 20950215:01

Kerberos Error Handling Issue [162775]

Symptom:

During Kerberos authentication, an error message appeared as “Unknown Error 0”.

Solution:

This issue has been resolved.

Star issue 21010896-1

Environment Script for Web Agent Generates Double Colons in the Environment Variables [163166]

Symptom:

The agent environment script modifies the environment variables with double colons instead of a single colon.

Solution:

The issue has been fixed.

Star issue 21171441-1

64-bit Web Agent Installer Fails [163221]

Symptom:

During the installation, the 64-bit Web Agent installer failed with 32-bit library error on Linux. The installation executable was ca-wa-12.5-linux-x86-64.bin.

Solution:

The Installer is running fine now and able to install the application without any issues.

Star issue 21171642-1

Switching from Persistent Realm to Anonymous Realm After Timeout Produced 500 Error (CQ163659)

Symptom:

Users received a 500 error in their browsers during the following situation:

- Users were logged in to any persistent realms with validation
- After the realm timed-out, the users tried to access a realm protected by an anonymous authentication scheme.

Solution:

This issue is fixed.

STAR Issue # 21181053:01

IIS 7.x Application Pool Crash with R12 SP3 CR11 Agent on Windows 2008 [164089]

Symptom:

During the IIS 'warm-up module' on an IIS web server, the agent failed. The failure occurred when the application pool started.

Solution:

This issue has been resolved.

Star issue 21174697-01

Agent Installation Failure on 64-bit Agent [164149]

Symptom:

On installation, the 64-bit agent installer fails with a 32-bit library error. The installer used is ca-wa-12.5-linux-x86-64.bin to install.

Solution:

This problem has been fixed.

Star issue 21171642-1

The FWS Was Not Honoring the IdleTimeout for Pre-existing and Expired SMSESSION [165857]

Symptom:

The FWS was ignoring the IdleTimeout for pre-existing and expired SiteMinder sessions.

Solution:

The issues has been resolved

Start issues 21016914;01+21151512;01

Setting JRE in PATH Variable to Uninstall Agent (178969)

Symptom:

The documentation states that JRE must be set in PATH variable before you uninstall the CA SiteMinder® Agent.

Solution:

This is no longer an issue. The *Web Agent Installation Guide for IIS* has been updated.

STAR Issue: 21552390-01

Chapter 6: Agent Defects Fixed in 12.52

Updating web.config File Stalls Site (176078)

Symptom:

With an IIS 7.5 web agent, whenever the web.config file is updated, the users are redirected to an error page.

Solution:

This is no longer an issue.

STAR Issue: 21485869-2

User Re-challenged On Exceeding Cookie Limit (172356)

Symptom:

User is re-challenged when the cookie limit exceeds 4 KB. If the Web Agent is disabled, the user is not re-challenged until the cookie limit reaches the web server defined limit of 16 KB.

Solution:

This is no longer an issue.

STAR Issue: 21466755-1

SAML 1.1 Artifact Transaction Fails on Consumer Side (179871)

Symptom:

When you execute an SAML1.1 Artifact transaction with affiliate name in local characters, the transaction fails on the consumer side with an error message.

Solution:

This is a known issue. For a successful SAML1.1 Artifact transaction, do not use local characters in affiliate names.

Chapter 7: Agent Defects Fixed in 12.52 SP1

Apache Was Appending the Default Error Document When Accessing an FCC (177181)

Symptom:

Several customers upgrading to R12.51 reported the issue as the appended doc results in an HTTP packets with incorrect Content-Length header value. The HTTP packets were then rejected by stateful devices, or incorrectly rendered by browsers.

Solution:

This problem has been corrected.

Star issue 21532133-1

SSO Did Not Work When Persistent Session Was Enabled (176883)

Symptom:

When a user session was moving from non-persist session to persist session, SSO was not working.

Solution:

This problem has been corrected.

Star issue 21543316-1

DefaultAppPool Was Failing (176098)

Symptom:

Customer reported intermittent DefaultAppPool failures in their corporate federation servers.
LLAWP stopped.

Solution:

This problem has been corrected.

Star issue 21507797-1

SMRegHost Error Message for an Already Existing Trusted Host (174556)

Symptom:

While Running SMRegHost for Host Registration, if the trusted host name was already existing in the Policy Store, the Error message was as follows:

+++++

Registration failed (Unable to create trusted host).

+++++

The Message did not tell the reason for the failure, that is, that a TrustedHost with the same name already existed.

Solution:

This problem has been corrected.

Star issue 21477725-4

Potential Opening in FORMS Authentication (173250)

Symptom:

When an agent was using FORMS authentication, and a user entered an invalid username, the status of the POST to the FCC request was a 200 OK, The user was again presented with the login form. If the user enters a valid user name and a bad password, the status of the POST request to the FCC was a 302 redirect, back to the Login.FCC.

Based on this behavior, a nefarious user can determine that a user name was valid due to the 302 redirect, and then implement a Brute Force attack against the known good user name.

Solution:

This problem has been corrected.

Star issue 21467829;1

Web Agent Was Not Encoding Curly Braces { } (176135)

Symptom:

Reproduction Steps

=====

1. Configure Siteminder Web agent and Policy Server to protect any sample page.
2. Send any password change request and check the URL in the password change request.

NOTE- You can set the user must change password at next login in the Manage user accounts dialog on the Administrative UI.

RESULT: The URL contains curly braces {RC2} instead of encoding them.

Solution:

This problem has been corrected.

Star issue 21536346-1

Host Registration Fails When the Administrator Password Contains a percent (%) character (177924)

Symptom:

When running the Web agent Configuration Wizard and trying to perform host registration, Host registration fails when administrator password contains a percent character.

The Web agent Configuration logs show that % is changed to %% in the password.

Solution:

This problem has been corrected.

Star issue 21557461-1

Missing DLL Information in the Web Agent Option Pack Guide (98438)

Symptom:

The Web Agent Option Pack Guide does not mention all the DLLs that are required to set up WebSphere to work with Federation Web Services.

Solution:

The documentation is updated.

STAR issue: 21848126-01

The AgentConfigLocation Parameter is Overwritten During Upgrade (55634)

Symptom:

During an upgrade, the Web Agent Option Pack installer is overwriting the value of the AgentConfigLocation parameter in the AffwebServices.properties file.

Solution:

This issue is fixed.

STAR issue: 21700322-01

Response to a FCC Page Does not Contain X-Frame-Options Header (55354)

Symptom:

The response to the FCC pages does not contain the X-Frame-Options header.

Solution:

This issue is fixed.

STAR issue: 21573717-1

Some OAuth Provider Files Missing in OAuth FCC File (54550)

Symptom:

The .gif and .ico files of OAuth providers Facebook and Google are missing in the oauth.fcc file that is included with the web agent installation.

Solution:

This is no longer an issue.

STAR issue: 21390384-01

WWSI Integration Degrades Performance (54169)

Symptom:

The performance degrades when WWSI is integrated with a Web Agent on IIS Server.

Solution:

This is no longer an issue.

STAR issue: 21460045-02

Web Agent Terminates Abruptly on iPlanet with Solaris 10 (54408)

Symptom:

Web agent on iPlanet with Solaris 10 terminates abruptly.

Solution:

This issue is no longer valid.

STAR issue: 21578167-1

IIS Agent Fails to Log Host Registration Failure (54254)

Symptom:

The 64-bit IIS agent did not log specific error message in the agent config log when host registration failed.

Solution:

This issue is fixed.

STAR issue: 21593387-01

LLAWP Process not Checking Group Ownership (54019)

Symptom:

LLAWP is unable to open the file which has group ownership even if the user is present in that particular group.

Solution:

This is no longer an issue. Set the GUID of the user while spawning the LLAWP process.

STAR issue: 21236749-1

Custom Agent Fails to Decode SSO Token (53880)

Symptom:

SDK-based custom agent fails to decode SSO token intermittently.

Solution:

This issue is no longer valid.

STAR issue: 21565062-1

Chapter 8: Documentation

This section contains the following topics:

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

[Known Issues](#) (see page 39)

[Release Numbers on Documentation](#) (see page 40)

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.

Known Issues

The known issues of the following CA SiteMinder® components are confidential and are no longer included in Release Notes:

- Policy Server
- Web Agent
- SDK
- Federation
- Web Services Security
- CA SiteMinder® SPS

To view the known issues, perform the following steps:

1. Click Release Notes in the bookshelf main page.
2. Click Confidential Content against Known Issues and log in to CA Support Online.

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.

Appendix A: Third-Party Software Acknowledgments

CA SiteMinder® incorporates software from third-party companies. For more information about the third-party software acknowledgments, see the CA SiteMinder® Bookshelf main page.