

Layer7 SiteMinder

How SiteMinder Avoids Impact of the Default Behavior of Google Chrome 80 for SameSite Cookie Attribute

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How SiteMinder Avoids Impact of Default Behavior of Google Chrome 80 for SameSite Cookie Attribute

What is SameSite Cookie Attribute in Google Chrome 80

When a request is sent from a web browser to website, the web browser verifies whether it has stored any cookies for the website. If the browser finds a cookie, it validates the cookie properties and flags to understand whether to send the cookie in the transaction to the website.

While this behavior enables a better user experience, it creates a security risk that can lead to CSRF vulnerabilities. To help mitigate this risk, Google Chrome is changing how it enforces its default behavior based on the SameSite cookie attribute. This change is effective from Chrome 80.

Google Chrome will start enforcing the SameSite cookie attribute from the upcoming release of Chrome 80 to govern its default cookie management behavior. This cookie attribute determines whether browsers will send stored cookies to cross-site websites. For detailed information about the upcoming changes in Google Chrome 80, see [Google documentation](#).

The SameSite cookie attribute is in the following format:

Set-Cookie: CookieName=CookieValue; SameSite=Strict|Lax|None;

The possible values are:

Strict

Specifies that the cookie will be sent only in requests that are initiated from the same site websites but not in requests that are initiated by cross-site websites.

Lax

Specifies that the cookie is sent in requests that are initiated from the same site websites, and in idempotent requests such as GET to cross-site websites. The cookie is not sent in non-idempotent requests such as POST to cross-site websites. This is the default behavior of Chrome 80.

None

Specifies that the existing behavior of sending stored cookies in requests initiated from same-site or cross-site websites continues.

This document covers information about how SiteMinder can be configured to avoid the impact of Chrome 80 in regard to the SameSite cookie attribute.

How Google Chrome 80 Default Behavior Affects SiteMinder

A core functionality of SiteMinder is to manage cross-website access. As the SameSite cookie attribute is designed to improve the security of cross-site cookie usage, the new default behavior of Google Chrome 80 will affect your SiteMinder environment if all the following conditions are met in your environment:

- Transactions are initiated from cross-sites. For example, a transaction is initiated by accessing a link in an application that is deployed on another domain
- Accessing a link initiates a request with non-idempotent method like POST

The following sections in this document explain in detail how SameSite cookie attribute affects SiteMinder.

Effect of Google Chrome 80 Default Behavior on Non-Federation Functionality of SiteMinder in Cross-Sites

This section describes whether Google Chrome 80 default behavior will affect the non-federation functionality of SiteMinder, that is, use cases that *do not involve* SAML, WS-FED, or OpenID Connect.

List of Use Cases that Will Fail

The following use cases will fail functionally with the default behavior of Chrome 80:

- Cookie provider flow for any POST request to an application
- Custom cookies that are generated using responses when a POST request is initiated from a cross-site
- Auditing of Anonymous authentication scheme may result in inconsistent results
- Basic authentication scheme when a non-idempotent request like a POST request is initiated from a cross-site

List of Use Cases that Will Succeed with a Change in User Experience

The following use cases will succeed with a change in user experience (for example, multiple user re-authentications may be required) with the default behavior of Chrome 80:

- SSO between applications when a SMSESSION cookie exists and a POST request is initiated from a cross-site
- SSO between applications when a session scheme mini cookie exists and a POST request is initiated from a cross-site

Effect of Google Chrome 80 Default Behavior on Federation Functionality of SiteMinder

This section describes whether Google Chrome 80 default behavior will affect the federation functionality of SiteMinder that *involves* SAML, WS-FED, or OpenID Connect.

List of Use Cases that Will Fail

The following federation use cases will fail functionally with the default behavior of Chrome 80:

- SP-initiated federation SSO transactions with the RelayState query parameter in SAML 2.0
- SAML 2.0 SLO with HTTP-POST binding
- SiteMinder acts as IdP in SAML 2.0 and Authentication Mode is set to Credential Selector (CHS)
- ForceAuthn in SAML 2.0 when SiteMinder acts as IdP and Authentication Requesting Binding is HTTP-POST
- Logout at IdP when SiteMinder acts as IdP and SP in WS-FED SLO
- AJAX requests for Single Page Applications in OpenID Connect
- Re-authentication at Authorization Endpoint (prompt=login) when SiteMinder acts as OpenID Connect Provider

Note that there are no federation use cases that will succeed with a change in user experience.

How to Configure SiteMinder to Manage the Change in the Default Behavior of Google Chrome 80

To support the SameSite cookie attribute of Google Chrome 80, SiteMinder now provides two new Agent Configuration Object parameters, **SameSite** and **getcpcookie** (for cookie provider Agents) in releases upto 12.52 SP1 CR10. From 12.52 SP1 CR10a, another ACO parameter **samesiteincompatibleuseragents**, is also provided. The ACO parameters let you control the default behavior of applications for SameSite cookie attribute.

The following sections provide information on the solution.

Analyze the Impact of Google Chrome 80 Default Behavior

Assess how your SiteMinder environment is affected by Google Chrome 80 default behavior.

Examples:

- What exactly are the changes in Google Chrome 80? Read [Google documentation](#) for detailed information about the upcoming changes in Google Chrome 80.
- Is my environment implementing any of the use cases listed in the *Effect of Google Chrome 80 Default Behavior on Non-Federation Functionality of SiteMinder* section?
- Does my environment include cross-site requests using the POST method?
- Do the Agents in my environment use cookie provider functionality where Agents and cookie provider Agents are in different domains?
- Is federation implemented in my environment for any of the use cases listed in the *Effect of Google Chrome 80 Default Behavior on Federation Functionality of SiteMinder* section?
- Does any of the SiteMinder components in your environment interact with users who use Google Chrome 80?

If the analysis determines that your SiteMinder environment will be affected, you can further check if your organization has the ability to control Chrome Policies. If you can control the policies, you can choose to set Chrome 80 to have the pre-Chrome 80 behavior and avoid the impact of the change in Chrome. This action will provide you additional time for considering whether you want to deploy the SiteMinder solution for SameSite cookie attribute or to continue having Chrome function as it did prior to Chrome 80.

To manually control the default behavior of Google Chrome 80, Google Chrome provides two flags, **SameSite by default cookies** and **Cookies without SameSite must be secure**. For detailed information about configuring Chrome 80 with pre-Chrome 80 behavior, see [Google Chrome documentation](#).

(Valid for Releases Upto 12.52 SP1 CR10) Verify Deployment Prerequisite

Important! This section is valid only if you are using any release upto 12.52 SP1 CR10. From 12.52 SP1 CR10a, the solution is available in SiteMinder by default.

If you have deployed a dev fix that is specific to your environment, **do not deploy this solution** as the following binaries provided in this SiteMinder solution will overwrite the binaries that were provided as part of the dev fix. Contact Broadcom Support for further help.

Component/Flow	Binary Name	Installation Location
Access Gateway/Web Agent Option Pack 12.52.x or lower	<ul style="list-style-type: none"> ■ fedutil.jar ■ fedfws_dasho.jar 	/affwebservices/WEB-INF/lib
	<p>Windows</p> <ul style="list-style-type: none"> ■ HttpPlugin.dll ■ SAMLDataPlugin.dll ■ SPS60Agent.dll <p>UNIX</p> <ul style="list-style-type: none"> ■ libHttpPlugin.so ■ libSAMLDataPlugin.so ■ libSPS60Agent.so 	/secure-proxy/agentframework/bin
Access Gateway/Web Agent Option Pack 12.6 or higher	<ul style="list-style-type: none"> ■ fedutil.jar ■ fedfws_obfs.jar 	/affwebservices/WEB-INF/lib
	<p>Windows</p> <ul style="list-style-type: none"> ■ HttpPlugin.dll ■ SAMLDataPlugin.dll ■ SPS60Agent.dll <p>UNIX</p> <ul style="list-style-type: none"> ■ libHttpPlugin.so ■ libSAMLDataPlugin.so ■ libSPS60Agent.so 	/secure-proxy/agentframework/bin
Web Agent	<p>Windows</p> <ul style="list-style-type: none"> ■ HttpPlugin.dll ■ SAMLDataPlugin.dll <p>UNIX</p> <ul style="list-style-type: none"> ■ libHttpPlugin.so ■ libSAMLDataPlugin.so 	webagent/bin

If a dev fix was deployed in your environment, the binaries updated for the dev fix will have an updated timestamp compared to the default installation files of SiteMinder. The **Creation/Modified Date** option in a folder can be used to identify such updated binaries.

(Valid for Releases Upto 12.52 SP1 CR10) Deploy the SiteMinder Solution

Important! This section is valid only if you are using any release upto 12.52 SP1 CR10. From 12.52 SP1 CR10a, the solution is available in SiteMinder by default.

If you will be affected by Chrome 80 default behavior, verify whether the affected use cases use any of the following components in their transactions:

- Access Gateway
- Web Agents
- Web Agent Option Pack
- Agent for SharePoint
- Web Services Security (WSS) Agent
- Application Server Agent (ASA) for Oracle WebLogic Server

If you are using any of the listed components, deploy the binaries that are provided as part of the SiteMinder solution to address the Chrome 80 changes. Once you deploy the binaries, SiteMinder provides the following two new ACO parameters:

SameSite

Controls the behavior of SameSite cookie attribute. For more information about this ACO parameter, see the *Configure SameSite ACO Parameter in SiteMinder Administrative UI* section.

getcpcookie

Controls how requests to cookie provider Agents work with SameSite cookie attribute of Chrome 80. For more information about this ACO parameter, see *Configure getcpcookie ACO Parameter in SiteMinder Administrative UI* section.

(Only in 12.52 SP1 CR10a and later) samesiteincompatibleuseragents

Determines whether the SameSite cookie attribute must be set for a cookie. This ACO parameter helps browser versions (incompatible clients) that reject a cookie when **SameSite** is set to **None**. Setting this ACO parameter lets you control which web browser and its versions must not contain the SameSite cookie attribute.

Follow these steps:

1. Download the provided binaries.
2. Stop the components you want to upgrade.
3. Copy the required binaries into the specified location and start the components:

Important! Take a backup of all the existing binaries you are going to replace.

Component/Flow	Binary Name	Installation Location
Access Gateway on Windows	<ul style="list-style-type: none"> ■ fedutil.jar ■ fedfws_obfs.jar 	/secure-proxy/Tomcat/webapps/affwebservices/WEB-INF/lib
	<ul style="list-style-type: none"> ■ HttpPlugin.dll ■ SAMLDataPlugin.dll ■ SPS60Agent.dll 	/secure-proxy/agentframework/bin
	<ul style="list-style-type: none"> ■ ProxyCore.jar ■ Proxyrt.jar 	/secure-proxy/Tomcat/lib
Access Gateway on UNIX	<ul style="list-style-type: none"> ■ fedutil.jar ■ fedfws_obfs.jar 	/secure-proxy/Tomcat/webapps/affwebservices/WEB-INF/lib
	<ul style="list-style-type: none"> ■ libHttpPlugin.so ■ libSAMLDataPlugin.so ■ libSPS60Agent.so 	/secure-proxy/agentframework/bin
	<ul style="list-style-type: none"> ■ proxyCore.jar ■ proxyrt.jar 	/secure-proxy/Tomcat/lib
Federation flow (12.52.x or lower) for Access Gateway and Web Agent Option Pack	<ul style="list-style-type: none"> ■ fedfws_dasho.jar ■ fedutil.jar 	/affwebservices/WEB-INF/lib
Federation flow (12.6 or higher) for Access Gateway	<ul style="list-style-type: none"> ■ fedutil.jar ■ fedfws_obfs.jar 	<i>AccessGateway_installation_path</i> /secure-proxy/Tomcat/webapps/affwebservices/WEB-INF/lib
Web Agent on Windows 64-bit	<ul style="list-style-type: none"> ■ HttpPlugin.dll ■ SAMLDataPlugin.dll 	<ul style="list-style-type: none"> ■ 64-bit: webagent/win64/bin ■ 32-bit: webagent/win32/bin

Component/Flow	Binary Name	Installation Location
Web Agent on Windows 32-bit	<ul style="list-style-type: none"> ■ HttpPlugin.dll ■ SAMLDataPlugin.dll 	webagent/bin
Web Agent on UNIX	<ul style="list-style-type: none"> ■ libHttpPlugin.so ■ libSAMLDataPlugin.so 	webagent/bin
Agent for SharePoint on Windows	<ul style="list-style-type: none"> ■ fedfws_dasho.jar ■ fedutil.jar 	/Agent-for-SharePoint/Tomcat/webapps/affwebservices/WEB-INF/lib
	<ul style="list-style-type: none"> ■ HttpPlugin.dll ■ SPConfigModule.dll ■ SPPlugin.dll ■ SPS60Agent.dll 	/Agent-for-SharePoint/agentframework/bin
	<ul style="list-style-type: none"> ■ proxyCore.jar ■ proxyrt.jar 	/Agent-for-SharePoint/Tomcat/lib
Agent for SharePoint on UNIX	<ul style="list-style-type: none"> ■ fedfws_dasho.jar ■ fedutil.jar 	/Agent-for-SharePoint/Tomcat/webapps/affwebservices/WEB-INF/lib
	<ul style="list-style-type: none"> ■ libHttpPlugin.so ■ libSPConfigModule.so ■ libSPPlugin.so ■ libSPS60Agent.so 	/Agent-for-SharePoint/agentframework/bin
	<ul style="list-style-type: none"> ■ proxyCore.jar ■ proxyrt.jar 	/Agent-for-SharePoint/Tomcat/lib

Component/Flow	Binary Name	Installation Location
Web Services Security Agent for WebLogic on Windows	<ul style="list-style-type: none">■ soaagent-core.jar■ soaagent-httpplugin.jar■ soaagent-jaxwsplugin.jar	<i>WSS_Agent_Installation_Path</i> \lib
Web Services Security Agent for JBoss on Windows	<ul style="list-style-type: none">■ soaagent-core.jar■ soaagent-httpplugin.jar■ soaagent-jaxwsplugin.jar	<i>JBoss_Server_Installation_Path</i> \modules\com\ca\siteminder\jbossagent\main
Web Services Security Agent for WebSphere on Windows	<ul style="list-style-type: none">■ soaagent-core.jar■ soaagent-httpplugin.jar■ soaagent-jaxwsplugin.jar	<i>WebSphere_Server_Installation_Path</i> \AppServer\lib\ext
Web Services Security Agent for Web Servers on Windows	<ul style="list-style-type: none">■ HttpPlugin.dll■ SAMLDataPlugin.dll	webagent/bin
Application Server Agent (ASA) for WebLogic on Windows and UNIX	<ul style="list-style-type: none">■ smsecurityproviders.jar	weblogic_installation_location\server\lib\mbeantypes

Configure SameSite ACO Parameters in SiteMinder Administrative UI

A new Agent Configuration Object (ACO), **SameSite**, is introduced to control the SameSite cookie attribute.

Follow these steps:

1. Open **Administrative UI**.
2. Navigate to **Infrastructure, Agent, and Agent Configuration Objects**.
3. Open the ACO for Agent.
4. Configure the **SameSite** ACO parameter using one of the following values:

Note: The values are case-insensitive.

Blank

Specifies that if the ACO is not defined or not set to Strict, Lax, or None, the web browser settings are considered and no value is added to the SameSite cookie attribute. This is same as not adding the SameSite ACO parameter. This is the default value of the ACO parameter.

Strict

Specifies that the cookie will be sent only in requests that are initiated from the same site websites but not in requests that are initiated by cross-site websites. Use **Strict** to restrict all operations in a cross-site request.

Lax

Specifies that the cookie is sent in requests that are initiated from the same site websites, and in idempotent requests such as GET to cross-site websites. The cookie is not sent in non-idempotent requests such as POST to cross-site websites. Use **Lax** to allow only GET operations in a cross-site request.

None

Specifies that the existing behavior of sending stored cookies in requests initiated from same-site or cross-site websites continues. If this value is set to **none**, **UseSecureCookies** ACO parameter must be set to **yes** as Chrome 80 mandates secure cookies. This combination is represented as **None + Secure** in this document wherever applicable.

Use **None** to allow POST operations along with GET requests in a cross-site request. Also, set the **UseSecureCookies** ACO parameter to **yes** and ensure that the applications use secure connection.

5. Save the changes.
6. **(Only for 12.52 SP1 CR10a and later)** Configure the **samesiteincompatibleuseragents** ACO parameter as follows:

Determines which web browser and its versions must not contain the SameSite cookie attribute. This ACO parameter helps browser versions (incompatible clients) that reject a cookie when **SameSite** is set to **None**. If the user agent of an incoming request to Agent matches the criteria specified in this ACO parameter, the SameSite cookie attribute is not set in the cookie. For more information about how incompatible clients work with SameSite cookie attribute, see [Google Chromium](#) documentation.

It is a multi-valued ACO parameter with the following syntax:

```
browser=<browser_name>|MajorVersion=<single_version> or  
<version_range>|MinorVersion=<single_version> or <version_range>
```

browser

Defines the web browser name.

MajorVersion

Specifies the version of the browser that must not contain the SameSite cookie attribute. If the incoming request matches this number, the cookie attribute is not set in the cookie. You can enter a specific version number or define a range. If a range is specified, the cookie attribute is not set to a browser with a version that falls into the range.

(Optional) MinorVersion

Specifies the minor version of the browser that must not contain the SameSite cookie attribute. If the incoming request matches this number, the cookie attribute is not set in the cookie. You can enter a specific version number or define a range. If a range is specified, the cookie attribute is not set to a browser with a minor version that falls into the range.

Example: Consider the following user agent:

```
User-Agent: Mozilla/5.0 (Windows NT 6.3; Win64; x64) AppleWebKit/537.36  
(KHTML, like Gecko) Chrome/57.0.3987.132 Safari/537.36
```

If you do not want to set the SameSite cookie attribute for Mozilla 5.0 and Chrome 57 (without any specific minor version), add two entries for the **samesiteincompatibleuseragents** ACO parameter as follows:

```
browser=Chrome|MajorVersion=57
```

```
browser=Mozilla|MajorVersion=5|MinorVersion=0
```

For Chrome, if you want to specify major and minor versions, you can set the value as follows:

```
browser=Chrome|MajorVersion=[57-61]|MinorVersion=[0-20]
```

7. Save the changes.

Configure Cookie Provider Agents to Work with SameSite Cookie Attribute

Consider the following environment:

- Agent1 is configured with cookie provider configuration in abc.com
- Agent2 acts as cookie provider in def.com

If the SiteMinder solution is not deployed on Agent2, the request from Agent1 to Agent2 fails due to the default behavior of Google Chrome 80. To resolve this issue, SiteMinder solution provides the following new ACO parameter along with the SameSite ACO parameter:

getcpcookie

If set to **Yes**, ensures that the request to cookie provider seamlessly works with additional redirects in the background. If set to **No**, SameSite cookie attribute settings of Chrome 80 or SameSite ACO parameter (if configured) will apply. The values are case-insensitive.

Default: No

To ensure that the request from Agent1 to Agent2 is successful, perform the following steps:

1. Deploy the SiteMinder solution on Agent2 that is acting as cookie provider Agent.
2. Open Administrative UI.
3. Navigate to **Infrastructure, Agent, and Agent Configuration Objects**.
4. Open the ACO for Agent and set the **getcpcookie** ACO parameter to **Yes**.
5. If cookie provider Agents also serve requests, set SameSite to **None** and UseSecureCookies to **Yes**.
6. Save the changes.
7. On Agent 1, set the **EnableCookieProvider** ACO parameter to **Yes** and save the change.

The following table highlights the behavior of transactions with different settings of SameSite ACO parameter on the two agents:

SameSite Value on Agent 1	SameSite Value on Agent 2	Request Type	Behavior
Strict	Strict	GET	Transaction fails
		POST	Transaction fails
Lax	Lax	GET	Transaction succeeds

SameSite Value on Agent 1	SameSite Value on Agent 2	Request Type	Behavior
		POST	Transaction fails To make this a success, configure getcpcookie on Agent 2.
None + Secure	None + Secure	GET	Transaction succeeds
		POST	Transaction succeeds
None (Default behavior of Chrome 80)	None (Default behavior of Chrome 80)	GET	Transaction succeeds
		POST	Transaction fails

Recommended Settings for Impacted Use Cases

For the list of use cases that are impacted by the default behavior of Google Chrome 80, as mentioned in the above sections, you can configure the SameSite ACO parameter to the recommended setting to make the use cases work.

The following table lists these recommended settings:

Impacted Use Case	Resolution
Non-federation	
Cookie provider flow for any POST request to an application	<ol style="list-style-type: none"> 1. Deploy the binaries on cookie provider Agents. 2. Set getcpcookie to Yes. 3. Set EnableCookieProvider to Yes. 4. (If cookie provider Agents serve requests) Set SameSite to None and UseSecureCookies to Yes.

Impacted Use Case	Resolution
Custom cookies that are generated using responses when a POST request is initiated from a cross-site	<ol style="list-style-type: none"> 1. Deploy the binaries on Agents. 2. Set the SameSite ACO parameter to None. 3. Set UseSecureCookies to Yes.
Auditing of Anonymous authentication scheme may result in inconsistent results	<ol style="list-style-type: none"> 1. Deploy the binaries on Agents. 2. Set the SameSite ACO parameter to None. 3. Set UseSecureCookies to Yes.
SSO between applications when a SMSESSION cookie exists and a POST request is initiated from cross-site	<ol style="list-style-type: none"> 1. Deploy the binaries on Agents. 2. Set the SameSite ACO parameter to None. 3. Set UseSecureCookies to Yes.
SSO between applications when a session scheme mini cookie exists and a POST request is initiated from cross-site	<ol style="list-style-type: none"> 1. Deploy the binaries on Agents. 2. Set the SameSite ACO parameter to None. 3. Set UseSecureCookies to Yes.
Basic authentication scheme when a non-idempotent request like POST request is initiated from cross-site	No solution is currently available. Use alternative authentication schemes.
Federation	
SP-initiated federation SSO transactions with the RelayState query parameter in SAML 2.0	<ol style="list-style-type: none"> 1. Deploy the binaries on Agents. 2. Set the SameSite ACO parameter to None. 3. Set UseSecureCookies to Yes.
SAML 2.0 SLO with HTTP-POST binding	<ol style="list-style-type: none"> 1. Deploy the binaries on Agents. 2. Set the SameSite ACO parameter to None. 3. Set UseSecureCookies to Yes.

Impacted Use Case	Resolution
SiteMinder acts as IdP in SAML 2.0 and Authentication Mode is set to Credential Selector (CHS)	If SiteMinder is used for Delegated Authentication: <ol style="list-style-type: none">1. Deploy the binaries on Agents.2. Set the SameSite ACO parameter to None.3. Set UseSecureCookies to Yes. If not, the behavior depends on the third-party.
ForceAuthn in SAML 2.0 when SiteMinder acts as IdP and Authentication Requesting Binding is HTTP-POST	<ol style="list-style-type: none">1. Deploy the binaries on Agents.2. Set the SameSite ACO parameter to None.3. Set UseSecureCookies to Yes.
Logout at IdP when SiteMinder acts as IdP and SP in a WS-FED SLO	<ol style="list-style-type: none">1. Deploy the binaries on Service Provider Agents.2. Set the SameSite ACO parameter to None.3. Set UseSecureCookies to Yes.
AJAX requests for Single Page Applications in OpenID Connect	<ol style="list-style-type: none">1. Deploy the binaries on Agents.2. Set the SameSite ACO parameter to None.3. Set UseSecureCookies to Yes.
Re-authentication at Authorization Endpoint (prompt=login) when SiteMinder acts as OpenID Connect Provider	<ol style="list-style-type: none">1. Deploy the binaries on Agents.2. Set the SameSite ACO parameter to None.3. Set UseSecureCookies to Yes.

Behavior of SameSite ACO Parameter Configuration

This section describes how SameSite ACO Parameter in SiteMinder works with different settings in different scenarios.

Accessing Access Gateway Administrative UI

If **UseSecureCookies** ACO parameter is set to **Yes** and **SameSite** ACO parameter is set to **None**, ensure that SSL is enabled on Tomcat to successfully access Access Gateway Administrative UI.

SameSite and CookieDomainScope Dependencies

SameSite cookie attribute of Google Chrome 80 is not dependent on the cookie domain attribute value. SameSite ACO parameter in SiteMinder is not dependent on the value of CookieDomainScope ACO parameter as the SameSite value of a host is considered but not the value of CookieDomainScope.

Custom Cookies with Special Characters

If a custom cookie contains special characters (such as "()<>@,;:\\"[]?={} \t), Tomcat within Access Gateway adds double quotes to the cookie value. Ensure that the double quotes are parsed in the cookie value if custom cookies contain special characters.

SDKs

While creating a cookie using SDK, append the SameSite ACO parameter and configure it use any of the supported values.

Example: Generating a cookie using SDK

```
String ssoStringToken = ssoToken.toString();

StringBuffer cookieString = new StringBuffer();

cookieString.append("SMSESSION").append("=").append(ssoStringToken);
cookieString.append("; Domain").append("=").append("sampledomain.com");
cookieString.append("; Path").append("=").append("/");

cookieString.append("; SameSite=").append("lax"); // Use strict, lax, or none

response.addHeader("Set-Cookie", cookieString.toString());
```

Logging

To know whether the SiteMinder solution is deployed on Agents, check the Agent error log for the following line:

SameSite Fix Applied

Known Issues

The following known issues exist in this solution in cross-site requests:

- IBM WebSphere does not support SameSite cookie attribute. So, SiteMinder does not provide a solution for ASA Agent for WebSphere.
As a workaround, consider using pre-80 Chrome or using alternative web browsers that do not mandate using SameSite cookie attribute.
- SiteMinder solution does not work for Web Agent Option Pack that is deployed on WebSphere application server.
- If cookie attribute contains special characters, the cookie attribute cannot be consumed by WebLogic and ServletExec application servers for Web Agent Option Pack.
- SiteMinder solution is currently unavailable for z/OS operating system.
- SiteMinder solution does not work for a Basic authentication scheme when a non-idempotent request like POST request is initiated from cross-site.

As a workaround, use alternative authentication schemes.