

Cloud Access Manager 8.1.4

How to Configure for SSO to SAP NetWeaver using SAML 2.0

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Legend

- **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.
- **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
- 1 IMPORTANT, NOTE, TIP, MOBILE, or VIDEO: An information icon indicates supporting information.

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Introduction

This guide provides step-by-step configuration instructions for Single Sign-On (SSO) access to SAP NetWeaver using Cloud Access Manager using the SAML 2.0 protocol.

Prerequisites and requirements

Ensure that the following prerequisites and requirements are met before you configure SSO to SAP Netweaver using SAML 2.0.

- Supported versions
- DNS settings

Supported versions

The SAML 2.0 protocol is supported on the following SAP NetWeaver versions:

- Java 7.2x, 7.3x, 7.4x
- ABAP 7.02, 7.3x, 7.4x

DNS settings

If internal NetWeaver applications will be accessed by users on the Internet using the Cloud Access Manager proxy, the DNS settings should be as follows:

- End-user computers must be able to resolve the public Cloud Access Manager proxy FQDN
- The Cloud Access Manager proxy computer must be able to resolve the FQDN of the NetWeaver server on the internal network.

If users will access NetWeaver applications directly from their internal network, end-user computers must be able to resolve both the Cloud Access Manager proxy machine FQDN and the NetWeaver server FQDN.



User mappings

In the following example Cloud Access Manager is deployed using Active Directory as the user store, and the logon ID of NetWeaver internal users matches the sAMAccountName of Cloud Access Manager users.

- NetWeaver configuration (Service Provider Role)
- Cloud Access Manager configuration (Identity Provider Role)

NetWeaver configuration (Service Provider Role)

To configure NetWeaver (Service Provider Role)

1. In the SAP NetWeaver admin interface, navigate to **Configuration | Security | Authentication and Single Sign-On**. Select the **SAML 2.0** tab.



- 2. Click **Enable** SAML 2.0 support.
- 3. In the **Provider Name** field, type NetWeaver and click **Next**.
- Click Browse, located next to the Signing Key Pair field. In the Select Keystore
 Entry box, click Create. In the Entry Settings window under Entry Name, type
 test and click Next.
- 5. In the **Subject Properties** window, in the **Common Name** field type **test**. Click **Finish**, and then click **OK**.
- 6. Click Next to advance to Service Provider Settings.
- Under Identity Provider Discovery, switch Selection Mode to Automatic.



- NOTE: This hides the NetWeaver home realm discovery interface. It is not needed here since Cloud Access Manager is the only configured identity provider.
- 8. Click Finish.
- 9. Click **Edit** then click the **Service Provider Settings** tab.
- 10. Click **Add** in the **Relay State Mappings** section and insert the following entry to facilitate IDP-initiated SSO later:

```
RelayState = portal
Path = /irj/portal
```

11. Click **OK** and then **Save**.

Cloud Access Manager configuration - (Identity Provider Role)

To configure Cloud Access Manager (Identity Provider Role (IDP))

- Log in to the Administration Console using the desktop shortcut Cloud Access
 Manager Application Portal and select Add New from the Applications section on the home page.
- 2. Click Configure Manually. Select Using SAML, and then click Next.
- 3. Under Federation Settings, set Recipient value to:

https://<NetWeaver_server_fqdn>:<port>/saml2/sp/acs

Where **<NetWeaver_server_fqdn>** is the fully-qualified domain name of your SAP NetWeaver server, and **<port>** is the port number used by the NetWeaver server to listen on, for example https://srvnwce73.demo.sap.corp:50001/.

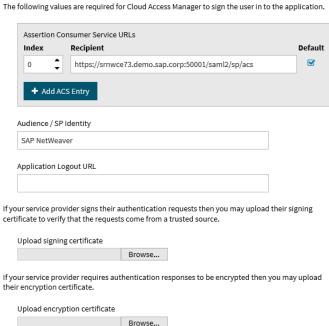
4. Set Audience / SP Identity to NetWeaver and click Next.



Federation Settings

If your service provider provides a federation metadata URL enter it below or if they provide a file containing federation metadata you can select it below. Otherwise consult the documentation or administrative interface for the application for the values you should enter here.





- 5. On the Subject Mapping page, select Derive the username from an attribute, and enter sAMAccountName in the attribute name. Do not add extra claim mappings. Click **Next**.
- 6. Choose whether to proxy the application. Select **Proxy this application** if you want to expose your NetWeaver application to users on the Internet. If you choose this option, then you must:
 - a. Set the value of the application URL to https://<NetWeaver_server_</p> fqdn>:<port> for example https://srvnwce73.demo.sap.corp:50001. Click
 - b. Set the proxy URL to the publicly-accessible proxy URL for the application. Click Next.
- 7. Allow a role which includes your sample user to access the application. Click **Next**.
- 8. Name the application **SAP NetWeaver**. Click **Next**.
- 9. In the **Application Portal** section, change the title of the first entry to **SAP NetWeaver Portal.**



- Switch the SSO Mode to IDP initiated. In the Relay State (optional) field type portal.
- Click Finish. On the Application Created page, click Download Metadata and then Download Certificate. Save both files to a location that can be accessed by the NetWeaver admin browser. Click Close.

NetWeaver configuration

The following sections explain how to configure NetWeaver:

- Cloud Access Manager as an Identity Provider (IDP)
- Enabling SSO to SAP NetWeaver applications

Cloud Access Manager as an Identity Provider (IDP)

To configure Cloud Access Manager as an identity Provider

- 1. In NetWeaver administration on the Configuration | Security | Authentication and Single Sign-On | SAML 2.0 page, click the Trusted Providers link. Click Add, and choose by uploading metadata file.
- 2. In the Select Metadata step, choose the CloudAccessManagerMetadata.xml document downloaded in step 11 of Cloud Access Manager configuration (Identity Provider Role) and click **Next**.
- In the Metadata Verification step, choose the certificate (PEM file) downloaded in step 11 of Cloud Access Manager configuration - (Identity Provider Role) and click Next.
- 4. In the **Provider Name** step, type the alias name **Cloud Access Manager** and click **Next**.
- 5. In the **Signature and Encryption** step, change the **Single Sign-On Authorization Request Sign parameter** to **Never** and click **Next**.
- 6. Click **Next** through to the end, then click **Finish**.
- 7. Click **Edit**, then under the **Identity Federation** tab, click **Add** to add a Name ID format.
- 8. Under Format Name, choose Unspecified. Under Source Name, choose Logon ID.
- 9. Click **OK** and then **Save**.
- 10. Click Enable.

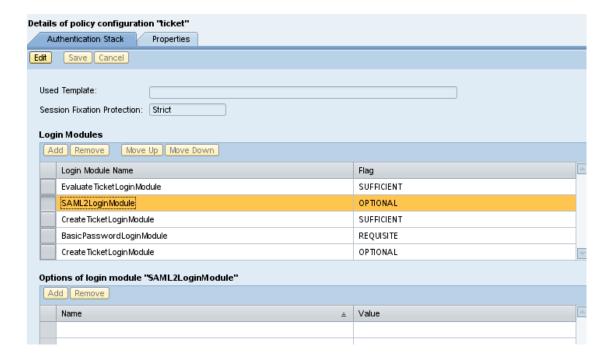


Enabling SSO to SAP NetWeaver applications

To allow single sign-on (SSO) to your NetWeaver applications

- 1. In NetWeaver Admin, select Configuration | Security | Authentication and Single Sign-On.
- 2. On the **Authentication** tab, highlight the **ticket** policy configuration. On the **Authentication Stack** tab, click **Edit**.
- 3. Under **Login Modules**, click **Add**. Choose **SAML2LoginModule** from the dropdown list. Click **Add** again, and choose **CreateTicketloginModule** from the list.
- 4. Change the order and the flag status of the five login modules to match the following, then click **Save**. This will use federation, and fall back to forms if federation fails.

EvaluateTicketLoginModule	SUFFICIENT
SAML2LoginModule	OPTIONAL
CreateTicketLoginModule	SUFFICIENT
BasicPasswordLoginModule	REQUISITE





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