



Integrating Collaboration Applications

- SAP BusinessObjects Business Intelligence Platform 4.1

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Managing collaboration-application integration

Use the **Applications** area of the CMC in BI platform to enable and configure collaboration with SAP Jam or SAP StreamWork.

The following additional configuration is required in the collaboration application's Enterprise agent:

- Establish the HTTPS connection with the service provider
- Fulfill prerequisites for authentication

As different authentication procedures are applied (SAML 2.0 and OAuth 1.0a), the description makes up the largest part of the document. After the collaboration application is configured, SAP Jam or SAP StreamWork feeds are available in BI launch pad.

Target audience

SAP BusinessObjects BI platform administrators who will integrate BI platform with the SAP Jam or SAP StreamWork collaboration application.

Collaboration prerequisites

These prerequisites summarize the requirements for Business Intelligence (BI) platform and for collaboration applications.

- BI platform must be installed with at least one Central Management Server (CMS).
- You must configure the collaboration application (SAP Jam or SAP StreamWork) in the CMC.
- You must define a collaboration application (SAP Jam or SAP StreamWork) Enterprise organization.
- SAP Jam or SAP StreamWork users must belong to the Enterprise organization.

Note:

An SAP StreamWork Enterprise agent is required only to provision users using an on-premise LDAP/AD directory service.

BI platform configuration

3.1 Collaboration configuration options

This table summarizes the CMC options in BI platform for integrating SAP Jam or SAP StreamWork.

The following options appear in the "Properties: Collaboration" dialog box in the CMC. To access these options, go to the **Applications** tab, click **Collaboration**, and then from the **Manage** menu, select **Properties**.

Option	Description
Enable Collaboration	Select this check box, and select SAP Jam or SAP StreamWork .
Connection URL	Type the URL to the collaboration application.
Unique Identity Provider ID	<p>Enter a value to use for your BI platform deployment. This value will be associated with the certificate used to configure integration on the collaboration application's administration console.</p> <p>Note: The application asserting an identity for single sign-on must be configured as an administrative OAuth application.</p>
Identity Provider Base64 Certificate	<p>When you click Generate, a certificate is created in the Identity Provider Base64 Certificate field. Use this certificate in the SAP StreamWork administration console to generate an OAuth Consumer Key. This certificate establishes the trust relationship between the collaboration application and BI platform. The external identity provider itself is identified with an X509 certificate, which is used to sign all identity assertions. The certificate must be Base64 encoded.</p>
OAuth Consumer Key	Use this field to enter a valid OAuth consumer key generated from the collaboration application's administration console.

Option	Description	
Connecting using proxy	<p>Check this box to enable connection through a proxy. You must provide information about the proxy host in the HTTP Proxy Host and Port boxes.</p> <p>Tip: To allow inbound connections from the collaboration application's servers to your corporate network, you must have a reverse proxy in the DMZ.</p> <p>Note: To add a trusted certificate from an SSL certificate provider to the reverse proxy, you must have a domain or subdomain name for the reverse proxy.</p>	
	HTTP Proxy Host	<p>In the reverse proxy configuration, type an external address that is accessible to the collaboration application. For example, you could use <code>https://ReverseProxy/</code>, where <i>ReverseProxy</i> is the domain or subdomain name of the reverse proxy.</p> <p>The collaboration application uses this address to send information to BI platform. The reverse proxy uses this address to redirect information received from the collaboration application to the machine containing the collaboration application's Enterprise agent.</p>
	Port	The collaboration application's Enterprise agent is configured to listen from port 8443.

3.2 To enable and configure collaboration in the CMC

This task requires a valid connection to the collaboration application's (SAP Jam or SAP StreamWork) administration console. You will need to pass and retrieve security details from the console.

For security reasons, the following default accounts cannot send or schedule content to SAP Jam or to SAP StreamWork:

- Guest
- SMAdmin
- Administrator
- WaaWSServletPrincipal

1. In the Central Management Console (CMC) in BI platform, go to the **Applications** area, and double-click **Collaboration**.

2. In the "Properties: Collaboration" dialog box, select the **Enable Collaboration** check box, and select **SAP Jam** or **SAP StreamWork**.
3. In the **Connection URL** box, type the URL to the collaboration application.
4. In the **Unique Identity Provider ID** box, type a unique identity provider value for your BI platform deployment.
Make a note of the identity provider value; you will use it to configure the collaboration application.
5. Click **Generate** (or **Regenerate**, if a certificate has been created before).
A certificate is created in the **Identity Provider Base64 Certificate** box. You will use the certificate value to configure the collaboration application.
6. In the **OAuth Consumer Key** box, type a valid OAuth consumer key.
You will create the OAuth consumer key in the collaboration application.
7. If you are connecting via proxy to the server running SAP Jam or SAP StreamWork, perform the following actions:
 - a. Select the **Connecting using proxy** check box.
 - b. In the **HTTP Proxy Host** box, type the proxy host name of the server.
 - c. In the **Port** box, type the port number of the server.
8. Click **Save & Close**.

SAP Jam configuration

4.1 To register a new SAML trusted IDP for SAP Jam

Before you can register a new SAML trusted IDP:

- Your company must be added to and configured in SAP Jam.
- You must have a valid SAP Jam user account that is associated with your company in SAP Jam.
- You must have company administration rights for your company in SAP Jam and full administrator rights in BI platform and in BI launch pad.
- BI launch pad must be registered with SAP Jam as an OAuth client that acts as a representative of BI launch pad within SAP Jam.

Note:

Each user must be registered in SAP Jam with an unique email address that corresponds to the user's Enterprise email address in BI launch pad. The email addresses will be mapped between BI platform and SAP Jam.

1. In SAP Jam, from the **Administrator** menu in the upper-right corner, select **Admin**.
Information about your company in SAM Jam, including your SAP Jam license, is displayed. Make a note of this information.
2. From the **Admin** menu, select **SAML Trusted IDPs**, and click **Register your identity provider**.
You must register the IDP that you created in BI launch pad.
3. (Required) In the **IDP ID** box, enter the unique identity provider value that was created when SAP Jam was configured in BI platform.
If you do not have the value, contact your external application administrator.
For example, type `<CompanyName>_<SystemID>_<Client>`
4. In the **Single Sign-On URL** box, enter the URL that directly accesses SAP Jam.
SAP Jam uses this URL for single sign-on with the unique identity provider.
5. In the **Single Log-Out URL** box, enter the URL to display after logging off of SAP Jam.
SAP Jam uses this URL for single log-out with the unique identity provider.
6. In the **Default Name ID Format** box, enter the name ID format to use in authentication requests.
7. In the **Default Name ID Policy SP Name Qualifier** box, enter the SP name qualifier to use in authentication requests.
8. (Required) In the **Allowed Assertion Scope** list, select **Users in my company**.
This option specifies the set of users for which SAP Jam will accept assertions from the IDP.

9. (Required) In the **X509 Certificate (Base64)** box, enter the Base64 certificate value that was generated when SAP Jam was configured in BI platform.

If you do not have the value, contact your external application administrator.

10. Click **Register**.

4.2 To create an OAuth client for SAP Jam

Before you can create an OAuth consumer key:

- Your company must be added to and configured in SAP Jam.
- You must have a valid SAP Jam user account that is associated with your company in SAP Jam.
- You must have company administration rights for your company in SAP Jam and full administrator rights in BI platform and in BI launch pad.
- BI launch pad must be registered with SAP Jam as an OAuth client, which acts as a representative of BI launch pad within SAP Jam.

Note:

Each user must be registered in SAP Jam with an unique email address that corresponds to the user's Enterprise email address in BI launch pad. The email addresses will be mapped between BI platform and SAP Jam.

1. In SAP Jam, from the **Administrator** menu in the upper-right corner, select **Admin**.
Information about your company in SAM Jam, including your SAP Jam license, is displayed.
2. On the **Admin** menu, select **OAuth Clients**, and click **Add OAuth Client**.
3. In the "Register a new OAuth Client" dialog box, in the **Name** box, enter the unique identity provider value that was created when SAP Jam was configured in BI platform.
If you do not have the value, contact your external application administrator.
SAP Jam displays the application name as a hyperlink (to th URL you enter) when it takes action on behalf of a user.
For example, type `<CompanyName>_<SystemID>_<Client>_<Application>`
4. In the **Integration URL** box, enter the URL that directly accesses BI launch pad.
SAP Jam displays the application name as a hyperlink to this URL when it takes action on behalf of a user.
5. In the **X509 Certificate (Base64)** box, enter the Base64 certificate value that was generated when SAP Jam was configured in BI platform.
If you do not have the value, contact your external application administrator.
If you leave this box blank, SAP Jam supplies a consumer secret.
6. Click **Save**.
The OAuth consumer key is generated. Make a note of the OAuth consumer key value for the BI platform administrator to use.

SAP StreamWork configuration

5.1 Illustration of SAP StreamWork integration

This diagram shows the BI platform, SAP StreamWork, and SAP StreamWork Enterprise agent components required for integration with SAP StreamWork.

The workflow describes the steps involved in integrating the systems and an overview of the actions users can perform after the integration:

- In the SAP StreamWork Enterprise Agent, users can provision Enterprise users from LDAP to SAP StreamWork.
- In the CMC in BI platform, administrators can create users and map them to Enterprise users.
- In BI launch pad, users can create activities and view them in a browser, without creating an account or logging on to SAP StreamWork.
- In BI launch pad, users can view and respond to SAP StreamWork feeds.

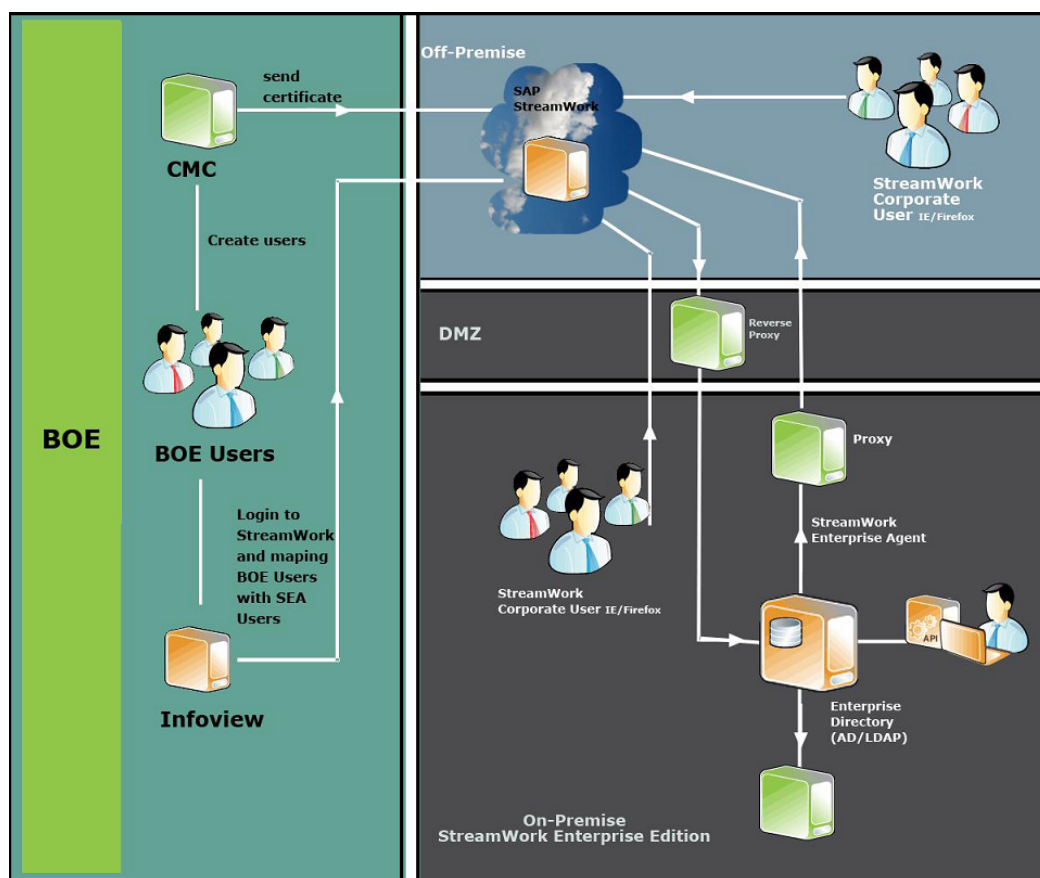


Figure 5-1: System landscape

5.2 To create an OAuth consumer key for SAP StreamWork

Before you can create an OAuth consumer key, you must have administrator rights for the SAP StreamWork Enterprise organization.

1. In the SAP StreamWork administration console, on the **Admin** tab, select **SAML Trusted IDPs**, and log on to SAP StreamWork using an account designated as an Enterprise organization administrator.
2. Click **Register your identity provider**.
3. Select **Click here to create a new administrative OAuth application**, and accept the Terms of Use Agreement.
4. In the **Register a new Application OAuth application** window, perform the following actions:
 - a. In the **Application Name** box, enter the name of the application instance to use in the integration. This information identifies which application is needed to take action on behalf of a user—for example, to post SAP StreamWork feeds for a user. Users must be able to recognize this application name.

- b. In the **Integration URL** box, enter the URL that directly accesses BI launch pad.
- c. In the **Base64 X509 Certificate** box, enter the Base64 certificate value that was generated when SAP StreamWork was configured in the Central Management Console (CMC) in BI platform.

If you do not have the value, contact your external application administrator.

5. Click **Register**.

The OAuth consumer key is generated. Make a note of the OAuth consumer key value for the BI platform administrator to use.

6. Click **Back** to display the SAML trusted identity providers.

7. In the "Register a new SAML Trusted Identity Provider" window, perform the following actions:

- a. In the **Display Name** box, enter a name for the BI platform deployment.
This name will appear to users in SAP StreamWork.
- b. In the **IDP ID** box, enter the unique identity provider value that was created when SAP StreamWork was configured in BI platform.
If you do not have the value, contact your external application administrator.
- c. In the **Base64 X509 Certificate** box, enter the Base64 certificate value that was generated when SAP StreamWork was configured in BI platform.
If you do not have the value, contact your external application administrator.

8. Click **Register**.

5.3 To add SAP StreamWork to a BI workspace

SAP StreamWork is hidden and must be manually revealed in the list of BI Launch Pad modules that you can add to a BI workspace.

1. **Locate the** `home-analyticlist.xml` **file at** `C:\BusinessObjects\tomcat\work\Catalina\localhost\BOE\eclipse\plugins\webpath.PerformanceManagement\web\WEB-INF\lib\asdk-ivdm_ext.jar\conf-syst\conf-syst\.`

The file content should start with the following text:

```
<?xml version="1.0" encoding="UTF-8"?>

<CHOICE>

<!--<SW_ACTIVITIES NAME="$MSG_SW_ACTIVITIES$" DESCRIPTION="$MSG_SW_ACTIVITIESDESC$"/>-->

<!--SW_FEED NAME="$MSG_SW_FEED$" DESCRIPTION="$MSG_SW_ACTIVITIESDESC$"/-->

<HOMEINBOX NAME="$MSG_HOMEINBOX$" DESCRIPTION="$MSG_HOMEINBOXDESC$"/>

<HOMEAPPLICATIONS NAME="$MSG_HOMEAPPLICATIONS$" DESCRIPTION="$MSG_HOMEAPPLICATIONSDESC$"/>
```

```
<HOMERECENTLYRUNDOCS NAME="$MSG_HOMERECENTLYRUNDOCS$" DESCRIP  
TION="$MSG_HOMERECENTLYRUNDOCSDESC$"/>  
  
<HOMERECENTDOCS NAME="$MSG_HOMERECENTDOCS$" DESCRIPTION="$MSG_HOMERECENT  
DOCSDESC$"/>  
  
<HOMEALERTS NAME="$MSG_ALERTNOTIFICATIONS$" DESCRIPTION="$MSG_ALERTNOTIFI  
CATIONSDESC$"/>  
  
</CHOICE>
```

2. Remove `!--` from the `SW_ACTIVITIES NAME=` and `SW_FEED NAME=` lines.
3. Restart the Tomcat server.

SAP StreamWork Feed appears in the **BI Launch Pad Modules** list in the module library for BI workspaces, in BI launch pad.

More Information

Information Resource	Location
SAP BusinessObjects product information	http://www.sap.com
SAP Help Portal	<p>Navigate to http://help.sap.com/businessobjects and on the "SAP BusinessObjects Overview" side panel click All Products.</p> <p>You can access the most up-to-date documentation covering all SAP BusinessObjects products and their deployment at the SAP Help Portal. You can download PDF versions or installable HTML libraries.</p> <p>Certain guides are stored on the SAP Service Marketplace and are not available from the SAP Help Portal. These guides are listed on the Help Portal accompanied by a link to the SAP Service Marketplace. Customers with a maintenance agreement have an authorized user ID to access this site. To obtain an ID, contact your customer support representative.</p>
SAP Service Marketplace	<p>http://service.sap.com/bosap-support > Documentation</p> <ul style="list-style-type: none"> • Installation guides: https://service.sap.com/bosap-instguides • Release notes: http://service.sap.com/releasenotes <p>The SAP Service Marketplace stores certain installation guides, upgrade and migration guides, deployment guides, release notes and Supported Platforms documents. Customers with a maintenance agreement have an authorized user ID to access this site. Contact your customer support representative to obtain an ID. If you are redirected to the SAP Service Marketplace from the SAP Help Portal, use the menu in the navigation pane on the left to locate the category containing the documentation you want to access.</p>
Docupedia	<p>https://cw.sdn.sap.com/cw/community/docupedia</p> <p>Docupedia provides additional documentation resources, a collaborative authoring environment, and an interactive feedback channel.</p>
Developer resources	<p>https://boc.sdn.sap.com/</p> <p>https://www.sdn.sap.com/irj/sdn/businessobjects-sdklibrary</p>

Information Resource	Location
SAP BusinessObjects articles on the SAP Community Network	https://www.sdn.sap.com/irj/boc/businessobjects-articles These articles were formerly known as technical papers.
Notes	https://service.sap.com/notes These notes were formerly known as Knowledge Base articles.
Forums on the SAP Community Network	https://www.sdn.sap.com/irj/scn/forums
Training	http://www.sap.com/services/education From traditional classroom learning to targeted e-learning seminars, we can offer a training package to suit your learning needs and preferred learning style.
Online customer support	http://service.sap.com/bosap-support The SAP Support Portal contains information about Customer Support programs and services. It also has links to a wide range of technical information and downloads. Customers with a maintenance agreement have an authorized user ID to access this site. To obtain an ID, contact your customer support representative.
Consulting	http://www.sap.com/services/bysubject/businessobjectsconsulting Consultants can accompany you from the initial analysis stage to the delivery of your deployment project. Expertise is available in topics such as relational and multidimensional databases, connectivity, database design tools, and customized embedding technology.

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