

## Integrating Collaboration Applications



---

# Table of Contents

<b>1</b>	<b>Document history. . . . .</b>	<b>3</b>
<b>2</b>	<b>Managing collaboration-application integration. . . . .</b>	<b>4</b>
<b>3</b>	<b>Collaboration prerequisites. . . . .</b>	<b>5</b>
<b>4</b>	<b>BI platform configuration. . . . .</b>	<b>6</b>
4.1	Collaboration configuration options. . . . .	6
4.2	Enabling and configuring collaboration in the CMC. . . . .	7
<b>5</b>	<b>SAP Jam configuration. . . . .</b>	<b>8</b>
5.1	Registering a new SAML trusted IDP for SAP . . . . .	8
5.2	Creating an OAuth client for SAP Jam. . . . .	9
<b>6</b>	<b>SAP StreamWork configuration. . . . .</b>	<b>10</b>
6.1	Illustration of SAP StreamWork integration. . . . .	10
6.2	Creating an OAuth Consumer Key for SAP StreamWork. . . . .	11
6.3	Adding SAP StreamWork to a BI workspace. . . . .	12

# 1 Document history

The following table provides an overview of the most important document changes.

Version	Date	Description
SAP BusinessObjects Business Intelligence Platform 4.1	May, 2013	<p>Support for SAP Jam was added. When integrated, SAP Jam adds social media and collaboration features to the BI launch pad.</p> <p>Additional SAP StreamWork access rights were added for users and groups. The SAP StreamWork <i>feed</i> panel includes a drop-down list of instances and times and a button for following or unfollowing a feed. Automatically follow all related instances when you follow a template document in SAP StreamWork. Comments on instances are posted only for the instance in SAP StreamWork.</p> <p>You can open OpenDocument links to documents and instances on a tab or via the link. When viewing a document or instance via an OpenDocument link, open the SAP StreamWork <i>feed</i> panel to monitor or reply to a document feed.</p> <p>An <b>Add File Extension</b> check box was added to the <i>Destinations</i> dialog box.</p>
SAP BusinessObjects Business Intelligence Platform 4.1 Support Package 1	August, 2013	<p>This guide was updated to include the following information:</p> <div><p><b>i Note</b></p><p>You can run one session of the BI launch pad at a time. Use tabs (or windows, depending on your configuration) to view multiple objects and applications.</p></div>
SAP BusinessObjects Business Intelligence Platform 4.1 Support Package 3	March, 2014	<p>A note was added to indicate that SAP Jam does not support Microsoft Internet Explorer 11.</p>

---

## 2 Managing collaboration-application integration

This guide is intended for BI platform administrators who will integrate the BI platform with a SAP Jam or SAP StreamWork collaboration application.

Use the **Applications** area of the Central Management Console (CMC) in the BI platform to enable and configure collaboration.

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

- Establish an HTTPS connection with a service provider
- Fulfill prerequisites for authentication

After SAP Jam or SAP StreamWork is configured, feeds from the collaboration application are available in the BI launch pad.

SAP Jam does not support Microsoft Internet Explorer 11.

---

## 3 Collaboration prerequisites

Collaboration prerequisites must be met before you integrate the BI platform with a collaboration application.

- The BI platform must be installed with at least one Central Management Server (CMS).
- The collaboration application (SAP Jam or SAP StreamWork) must be configured in the Central Management Console (CMC).
- A collaboration application (SAP Jam or SAP StreamWork) Enterprise organization must be defined.
- SAP Jam or SAP StreamWork users must belong to the Enterprise organization.
- An SAP Jam or SAP StreamWork Enterprise Agent is required to provision users who use an on-premise LDAP/AD directory service.

## 4 BI platform configuration

### 4.1 Collaboration configuration options

Collaboration options appear in the *Properties: Collaboration* dialog box in the Central Management Console (CMC) in the BI platform.

To access the *Properties: Collaboration* dialog box, on the **Applications** tab in the CMC, click **Collaboration**, and select **Manage > Properties**.

Option	Description
<b>Enable Collaboration</b>	Select this check box, and select <b>SAP Jam</b> or <b>SAP StreamWork</b> .
<b>Connection URL</b>	Enter the URL to the collaboration application.
<b>Unique Identity Provider ID</b>	Enter a unique value for your BI platform deployment.  The value should be associated with the certificate used to configure integration on the collaboration application's administration console. The application asserting an identity for single sign-on must be configured as an administrative OAuth application.
<b>Identity Provider Base64 Certificate</b>	When you click <b>Generate</b> , a certificate is created in this box. Use the certificate in the collaboration application's administration console to generate an OAuth Consumer Key.  The certificate establishes the trust relationship between the collaboration application and the 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.
<b>OAuth Consumer Key</b>	Enter the OAuth Consumer Key that was generated from the collaboration application's administration console.
<b>Connecting using proxy</b>	Select this check box to enable connection through proxy, and enter information about the proxy host in the <b>HTTP Proxy Host</b> and <b>Port</b> boxes.  To allow inbound connections from collaboration application servers to your corporate network, you must have a reverse proxy in the DMZ.  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.
<b>HTTP Proxy Host</b>	In the reverse proxy configuration, enter an external address that is accessible to the collaboration application. For example, use <code>https://&lt;ReverseProxy&gt;/</code> , where <code>&lt;ReverseProxy&gt;</code> is the domain or subdomain name of the reverse proxy.  The collaboration application uses this address to send information to the BI platform. The reverse proxy uses this address to redirect information re-

Option	Description
	ceived from the collaboration application to the machine containing the collaboration application's Enterprise Agent.
	<b>Port</b> The collaboration application's Enterprise Agent is configured to listen from port 8443.

## 4.2 Enabling and configuring 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 SAP StreamWork:

- Guest
- SMAdmin
- Administrator
- WaaWSServletPrincipal

1. In the Central Management Console (CMC) in the 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, enter the URL to the collaboration application.
4. In the **Unique Identity Provider ID** box, enter 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).  
The certificate appears in the **Identity Provider Base64 Certificate** box. You will use the certificate to configure the collaboration application.
6. In the **OAuth Consumer Key** box, enter a valid OAuth Consumer Key.
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, enter the proxy host name of the server.
  - c) In the **Port** box, enter the port number of the server.
8. Click **Save & Close**.

## 5 SAP Jam configuration

### 5.1 Registering a new SAML trusted IDP for SAP

You must register each user with a unique email address that corresponds to the user's Enterprise email address in the BI launch pad. The email addresses will be mapped between the BI platform and SAP.

Before you can register a new SAML trusted IDP:

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

SAP Jam does not support Microsoft Internet Explorer 11.

1. In the upper-right corner of the Central Management Console (CMC) in the BI platform, select **Administrator** and then select **Admin**.  
Information about your company, including your SAP license, is displayed. Write down or otherwise make note of the information.
2. From the **Admin** menu, select **SAML Trusted ID's**, and click **Register your identity provider**.  
You must register the IDP that you created in the BI launch pad.
3. In the **IDP ID** box, enter the unique identity provider value that was created when SAP was configured in the BI platform.  
If you do not have the value, contact your external application administrator.  
For example, enter `<CompanyName>_<SystemId>_<client>`
4. In the **Single Sign-On URL** box, enter the URL that directly accesses SAP.  
SAP 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 SAP.  
SAP 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. In the **Allowed Assertion Scope** list, select **Users in my company**.  
This option specifies the set of users for which SAP will accept assertions from the IDP.
9. In the **X509 Certificate (Base64)** box, enter the Base64 certificate value that was generated when SAP was configured in the BI platform.  
If you do not have the value, contact your external application administrator.
10. Click **Register**.



## 5.2 Creating 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 the BI platform and in the BI launch pad.
- The BI launch pad must be registered with SAP Jam as an OAuth client, which acts as a representative of the launch pad within SAP Jam.
- Each user must be registered in SAP Jam with a unique email address that corresponds to the user's Enterprise email address in the BI launch pad. The email addresses will be mapped between the BI platform and SAP Jam.

SAP Jam does not support Microsoft Internet Explorer 11.

1. In SAP Jam, from the **Administrator** menu in the upper-right corner, select **Admin**.  
Information about your company, including your SAP Jam license, appears.
2. From 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 the BI platform.  
If you do not have the value, contact your external application administrator.  
SAP Jam displays the application name as a hyperlink (to the URL you enter) when it takes action on behalf of a user.  
For example, enter `<CompanyName>_<SystemId>_<Client>_<Application>`
4. In the **Integration URL** box, enter the URL for the BI launch pad.  
SAP Jam displays the application name as a hyperlink to the 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 the 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.

---

## 6 SAP StreamWork configuration

### 6.1 Illustration of SAP StreamWork integration

This diagram shows required BI platform, SAP StreamWork, and SAP StreamWork Enterprise Agent components 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 Central Management Console (CMC) in the BI platform, administrators can create users and map them to Enterprise users.
- In the BI launch pad, users can create activities and view them in a browser, without creating an account or logging on to SAP StreamWork.
- In the BI launch pad, users can view and respond to SAP StreamWork feeds.

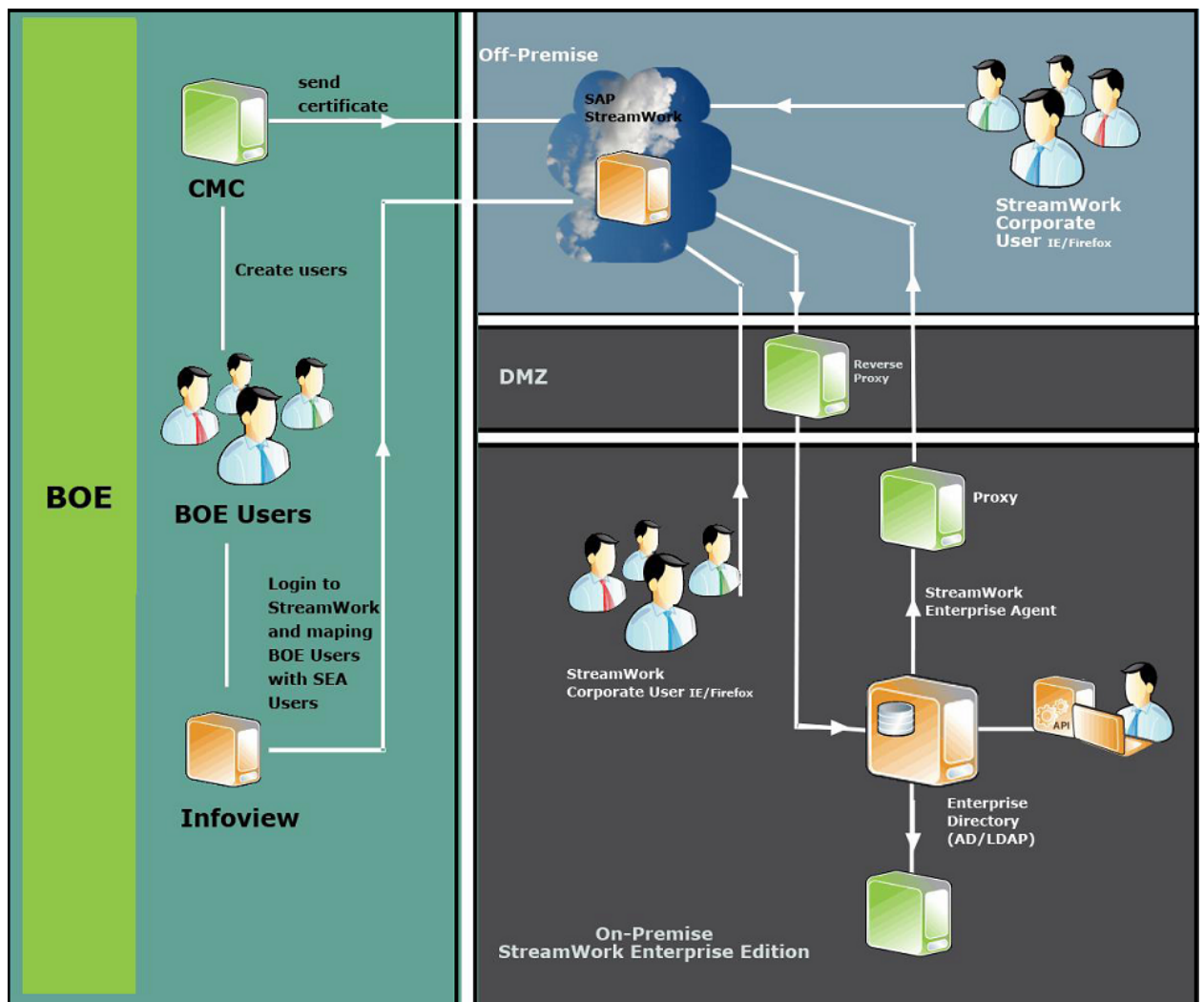


Figure 1: System landscape

## 6.2 Creating 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 for the 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 the 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 the 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 the BI platform.  
If you do not have the value, contact your external application administrator.
8. Click **Register**.

## 6.3 Adding 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 `C:\BusinessObjects\tomcat\work\Catalina\localhost\BOE\eclipse\plugins\webpath.PerformanceManagement\web\WEB-INF\lib\asdk-ivdm_ext.jar\conf-syst\conf-syst\home-analyticlist.xml`.

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="$MSGHOMEAPPLICATIONSDESC$"/>
<HOMERECENTLYRUNDOCS NAME="$MSG_HOMERECENTLYRUNDOCS$"
DESCRIPTION="$MSG_HOMERECENTLYRUNDOCSDESC$"/>
<HOMERECENTDOCS NAME="$MSG_HOMERECENTDOCS$" DESCRIPTION="$MSG_HOMERECENTDOCSDESC$" />
<HOMEALERTS NAME="$MSG_ALERTNOTIFICATIONS$"
DESCRIPTION="$MSG_ALERTNOTIFICATIONSDESC$"/>
</CHOICE>
```

2. Remove the `!--` 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 the BI launch pad.



[www.sap.com/contactsap](http://www.sap.com/contactsap)

© 2014 SAP AG or an SAP affiliate company. All rights reserved.  
No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Please see <http://www.sap.com/corporate-en/legal/copyright/index.epx> for additional trademark information and notices.