

Joget SharePoint SSO Integration

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Introduction

Recently, there have been questions from customers, partners and the community asking for comparisons between Joget Workflow and Microsoft SharePoint. Actually, the two products are not competing, but in fact complement each other.

SharePoint is a web application portal platform for team collaboration, intranets and enterprise document and content management. While it is possible to extend the capabilities of SharePoint through apps, developing apps for SharePoint is not easy as it requires traditional programming, as described in the SharePoint 2013 development overview article at <https://msdn.microsoft.com/en-us/library/office/jj164084.aspx>.

On the other hand, Joget is a platform to easily build web apps and automate processes. With single sign-on (SSO) integration from SharePoint to Joget, organizations can easily extend the capability of SharePoint by allowing users to seamlessly access custom apps, visually design their own custom applications, or download ready made apps from the [Joget Marketplace](#).

This article describes how SSO can be achieved using Active Directory Federation Services (<https://msdn.microsoft.com/en-us/library/bb897402.aspx>), which supports the Security Assertion Markup Language (SAML) standard.

Configuring Joget SharePoint SSO

i. Pre-requisites

Before configuring the SharePoint-Joget SSO integration, you will need to have installed and configured:

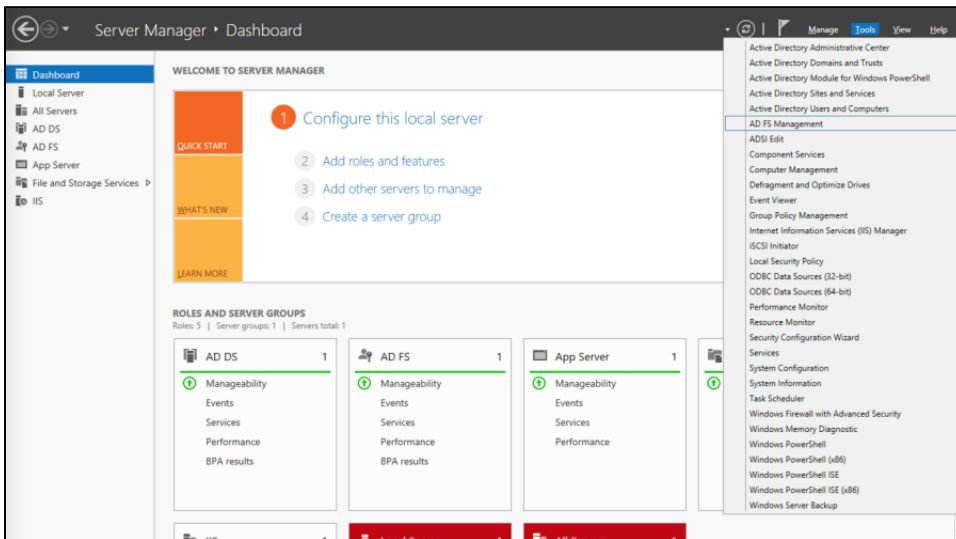
- SharePoint integrated with Active Directory Federation Services
- Joget

The appendices provide some resources on installing and configuring these pre-requisites.

ii. Configure SAML for Joget

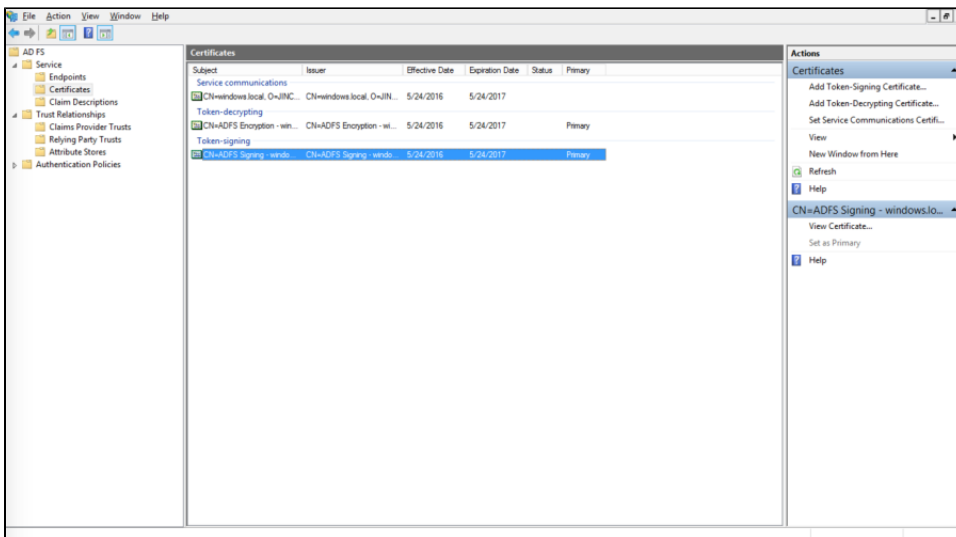
Export AD FS Token Signing Certificate

1. In the Windows Server Manager, launch **Tools > AD FD Management**

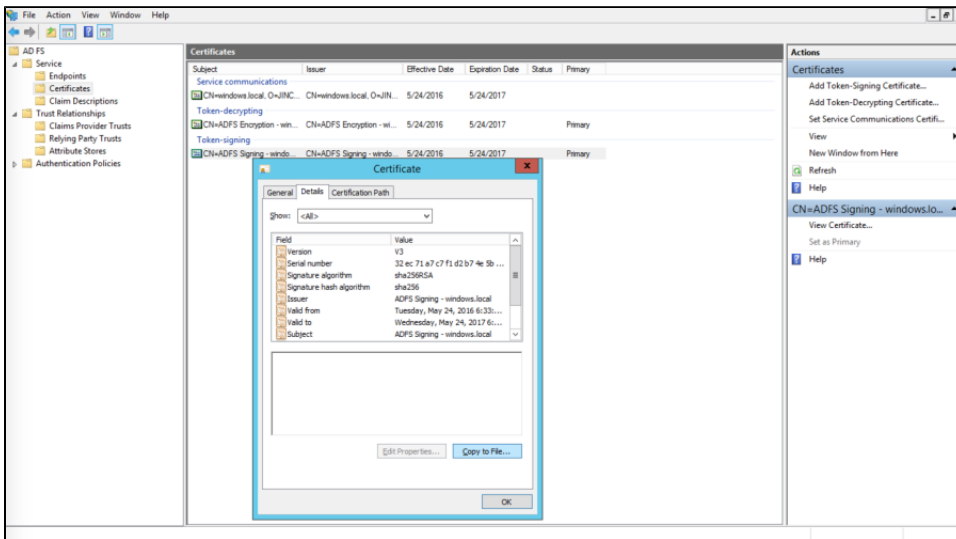


2. In the AD FS Management console, select **Service > Certificates** in the left navigation pane.

3. Select the Token-signing certificate and click on the **View Certificate** link on the right pane.



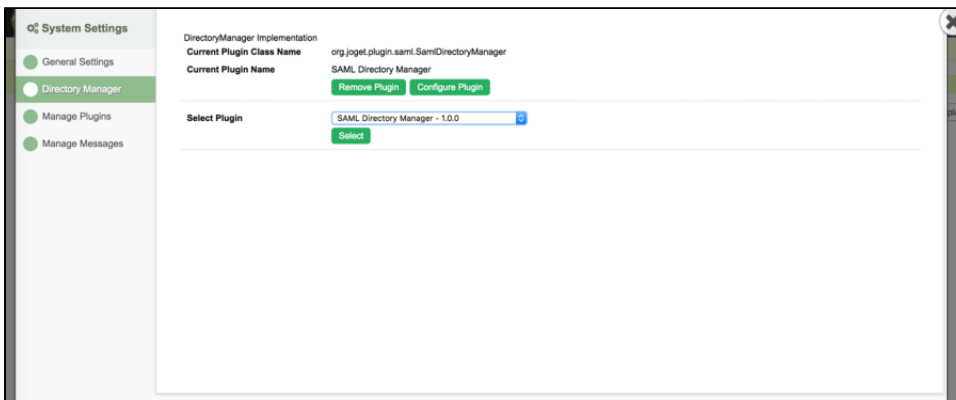
4. Click on the **Details** tab, and click on the **Copy to File...** button



5. This starts the Certificate Export Wizard. On the Welcome to the Certificate Export Wizard page, click **Next**.
6. On the Export Private Key page, click **No**, do not export the private key, and then click **Next**.
7. On the Export File Format page, select **Base-64 encoded X.509 (.CER)**, and then click **Next**.
8. On the File to Export page, type the name and location of the file that you want to export, and then click **Next**. For example, enter C:\ADFS.cer.
9. On the Completing the Certificate Export Wizard page, click **Finish**.

Configure SAML Directory Manager for Joget

1. Download the [SAML Directory Manager from the Joget Marketplace](#)
2. In Joget, login as an administrator
3. In **Settings > Manage Plugins**, click on **Upload Plugin**. Select the downloaded JAR file and click on the **Upload** button to upload the downloaded JAR file
4. In **Settings > Directory Manager**, choose the SAML Directory Manager and click on **Select**.



5. Open the contents of the exported AD FS certificate in a text editor and copy the contents.
6. In the Plugin Configuration page, paste the contents into the IDP Certificate field (copy-paste without the BEGIN and END lines)

The screenshot shows the 'Add Relying Party Trust Wizard' window with the 'Select Data Source' step selected in the left-hand 'Steps' pane. The main area contains three radio button options for selecting data source information. The third option, 'Enter data about the relying party manually', is selected. Below the options are navigation buttons: '< Previous', 'Next >', and 'Cancel'.

Add Relying Party Trust Wizard

Select Data Source

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Choose Profile
- Configure Certificate
- Configure URL
- Configure Identifiers
- Configure Multi-factor Authentication Now?
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

Select an option that this wizard will use to obtain data about this relying party:

- ☐ Import data about the relying party published online or on a local network
Use this option to import the necessary data and certificates from a relying party organization that publishes its federation metadata online or on a local network.
Federation metadata address (host name or URL):

Example: fs.contoso.com or https://www.contoso.com/app
- ☐ Import data about the relying party from a file
Use this option to import the necessary data and certificates from a relying party organization that has exported its federation metadata to a file. Ensure that this file is from a trusted source. This wizard will not validate the source of the file.
Federation metadata file location:
- ☒ Enter data about the relying party manually
Use this option to manually input the necessary data about this relying party organization.

< Previous Next > Cancel

- On the Welcome to the Add Relying Party Trust Wizard page, click **Start**.
- Select Enter data about the relying party manually, and then click **Next**.
- Type a relying party name (e.g. Joget) and then click **Next**.
- Make sure Active Directory Federation Services (AD FS) 2.0 Profile is selected, and then click **Next**.
- Do not use an encryption certificate. Click **Next**.
- Click to select the **Enable support for the SAML 2.0 WebSSO** protocol check box.
- In the Relying party SAML 2.0 SSO service URL field, type the URL copied from the Joget SAML Directory Manager earlier, e.g. <https://mysite.cloudjoget.com/jw/web/json/plugin/org.joget.plugin.saml.SamlDirectoryManager/service>
- Paste the URL into the relying party trust identifier, and then click **Add**. Click **Next**.
- Select Permit all users to access this relying party. Click **Next**.
- On the Ready to Add Trust page, there is no action required, click **Next**.
- On the Finish page, click **Close**. This opens the Rules Editor Management console.

Edit Claim Rules

- On the Issuance Transform Rules tab, click **Add Rule**.

Add Transform Claim Rule Wizard

Select Rule Template

Steps

- Choose Rule Type
- Configure Claim Rule

Select the template for the claim rule that you want to create from the following list. The description provides details about each claim rule template.

Claim rule template:

Send LDAP Attributes as Claims

Claim rule template description:

Using the Send LDAP Attribute as Claims rule template you can select attributes from an LDAP attribute store such as Active Directory to send as claims to the relying party. Multiple attributes may be sent as multiple claims from a single rule using this rule type. For example, you can use this rule template to create a rule that will extract attribute values for authenticated users from the displayName and telephoneNumber Active Directory attributes and then send those values as two different outgoing claims. This rule may also be used to send all of the user's group memberships. If you want to only send individual group memberships, use the Send Group Membership as a Claim rule template.

< Previous
Next >
Cancel

- On the Select Rule Template page, select **Send LDAP Attributes as Claims**. Click **Next**.
- On the Configure Rule page, type the name of the claim rule in the Claim rule name field e.g. User Attributes.
- From the Attribute Store drop-down list, select Active Directory.
- In the Mapping of LDAP attributes to outgoing claim types section, key in the following mappings:

LDAP Attribute	Outgoing Claim Type
SAM-Account-Name	Name ID
E-Mail-Addresses	email
Given-Name	User.FirstName
Surname	User.LastName

Add Transform Claim Rule Wizard

Configure Rule

Steps

- Choose Rule Type
- Configure Claim Rule

You can configure this rule to send the values of LDAP attributes as claims. Select an attribute store from which to extract LDAP attributes. Specify how the attributes will map to the outgoing claim types that will be issued from the rule.

Claim rule name:
LDAP Attributes

Rule template: Send LDAP Attributes as Claims

Attribute store:
Active Directory

Mapping of LDAP attributes to outgoing claim types:

LDAP Attribute (Select or type to add more)	Outgoing Claim Type (Select or type to add more)
SAM-Account-Name	Name ID
E-Mail-Addresses	email
Given-Name	User.FirstName
Surname	User.LastName
▶*	

< Previous Finish Cancel

6. Click **Finish**, and then click **OK**

7. At this point, the SSO should be operational. Test the login by accessing the the AD FS login page e.g. <https://windows.local/adfs/ls/ldpinitiatedsignon.aspx>

windows.local

You are not signed in.

☐ Sign in to this site.

☒ Sign in to one of the following sites:

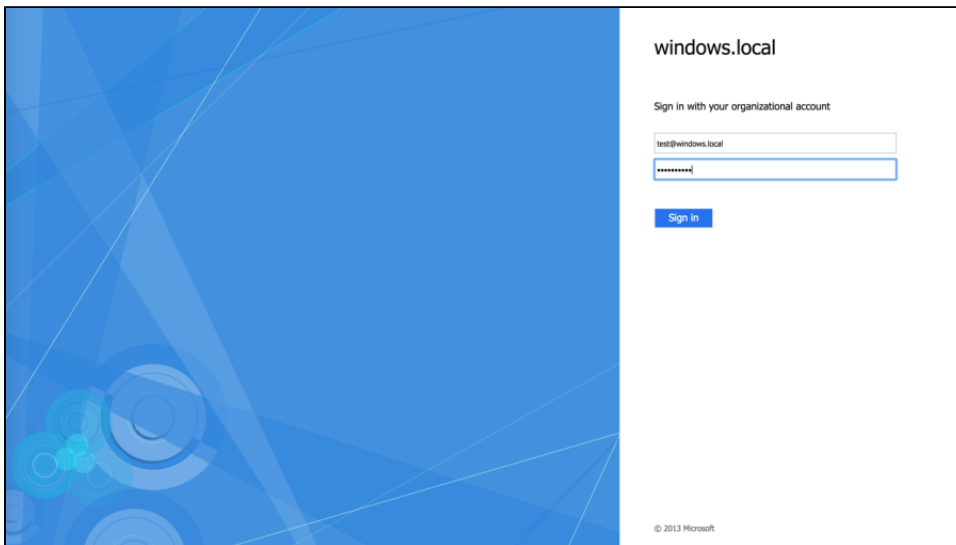
Joget Workflow

Sign in

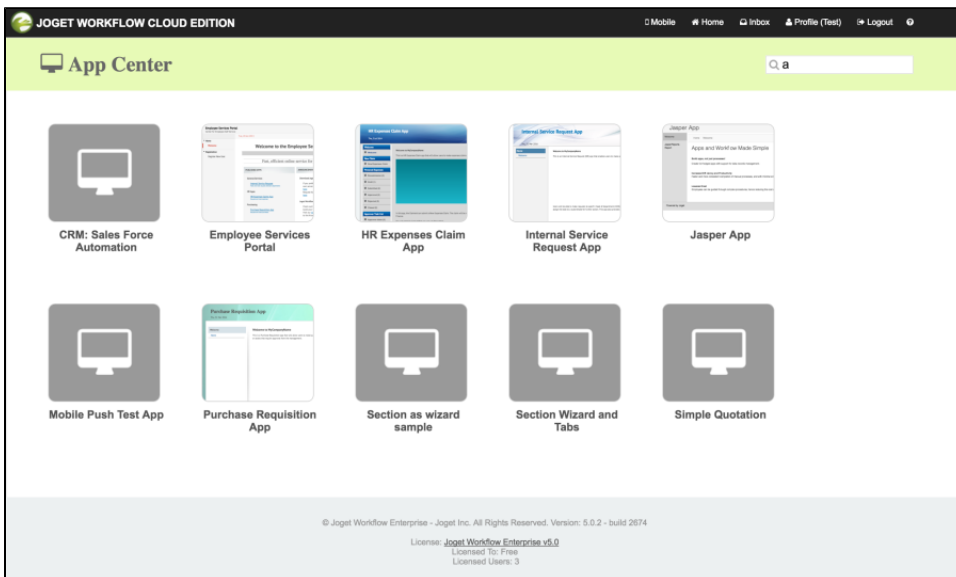
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8. Select the appropriate site e.g. Joget and click on **Sign in**.

9. Login to SharePoint using your AD account

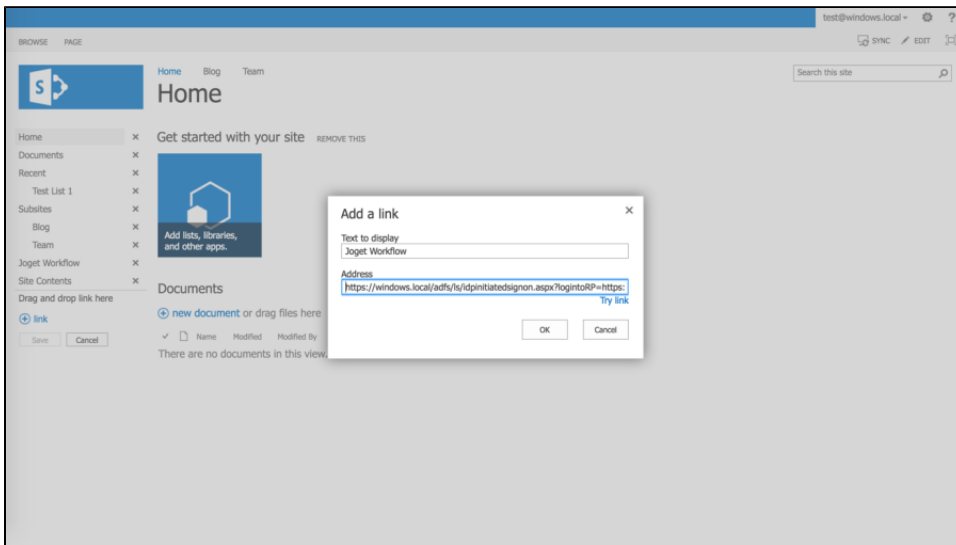


10. On successful login, you should be automatically logged into Joget

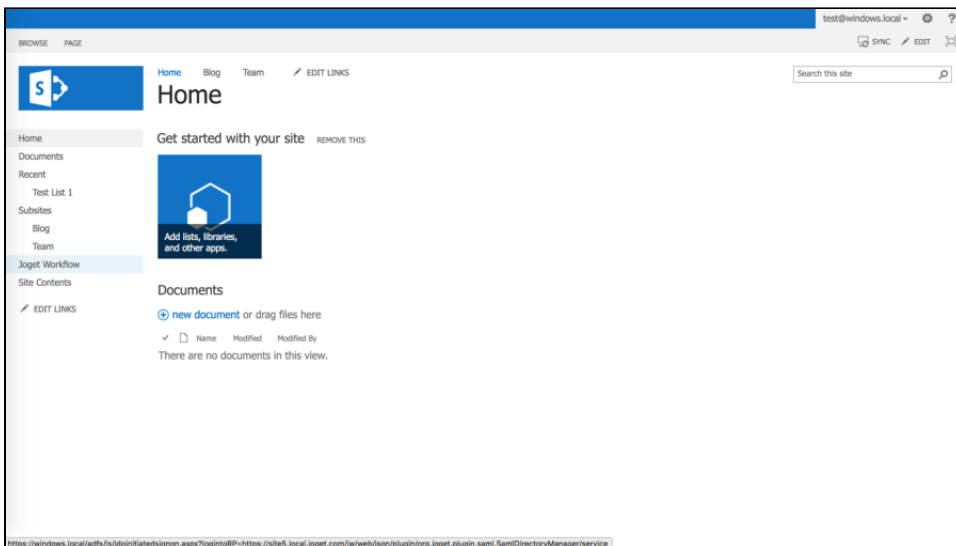


iv. Add Link in SharePoint site

1. In SharePoint, click on **Edit Links** in the left menu



2. Click on **+ link** and key in the text to display (e.g. Joget) and the direct SSO link e.g. assuming the AD FS server is <https://windows.local> and the Joget server is <https://mysite.cloud.joget.com>, the link will be <https://windows.local/adfs/ls/ldpinitiatedsignon.aspx?logintoRP=https://mysite.cloud.joget.com/jw/web/json/plugin/org.joget.plugin.saml.SamlDirectoryManager/service>



3. Once the link is created, clicking on the link will SSO the user into the Joget installation.

Appendix: Resources for Installing Pre-requisites

Install SharePoint Foundation 2013

1. Download SharePoint Foundation 2013: <https://www.microsoft.com/en-us/download/details.aspx?id=35488>
2. Install SharePoint 2013 on a single server with a built-in database: <https://technet.microsoft.com/en-us/library/cc263202.aspx>
3. Fix SharePoint installation issues on Windows 2012 R2:
 - a. <http://www.someshinyobject.com/posts/server-2012-r2-and-sharepoint-2013-the-tool-was-unable-to-install-application-server-role-web>
 - b. <https://www.axian.com/2014/06/11/sharepoint-2013-configuration-wizard-issues-when-installing-local-development-instance/>

c. <http://sandbox2010.kwizcom.com/sites/demo-data-view-plus/admin-corner-blog/Lists/Posts/Post.aspx?ID=4>

Install Active Directory Federation Services (AD FS)

1. Install the AD FS software on Windows Server 2012 R2: <https://msdn.microsoft.com/en-us/library/azure/dn528857.aspx>

Configure SharePoint to use AD FS

1. Configure SAML-based claims authentication with AD FS in SharePoint 2013: <https://technet.microsoft.com/en-us/library/hh305235.aspx>

Install Joget

1. Options for installing Joget:
 - a. Install On-Premise: [Installation Guide](#)
 - b. Install on Docker: [Joget on Docker](#)
 - c. Install on OpenShift: [Joget on OpenShift](#)
 - d. Sign up for Joget Workflow On-Demand: <https://cloud.joget.com>