

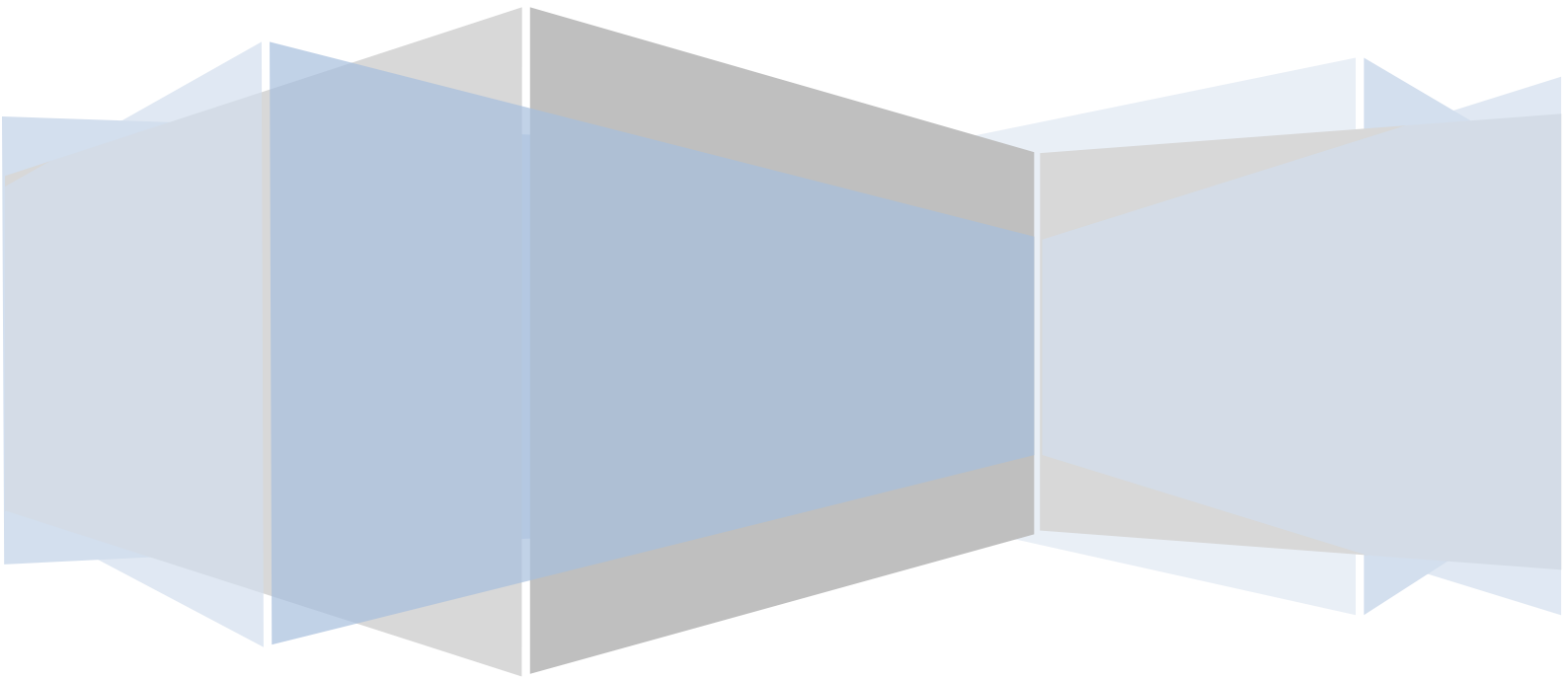
# SSO Plugin

## Integration for Jasper Server

**J System Solutions**

<http://www.javasystemsolutions.com>

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## Introduction

This document covers installation and configuration of SSO Plugin for the popular open source Jasper Server when integrating with BMC AR System or HP Service Manager. When using these products, users and groups are mapped to Jasper Reports and kept up to date when modified in the BMC or HP products.

If you wish to deploy SSO Plugin to Jasper Reports without either of these products, please consult the installation authorisation service document.

The JSS [support website](#) contains all the SSO Plugin documentation and videos covering installation and configuration.

## **Jasper Server user administration**

Jasper Server maintains its own user database and role mapping. The integration will automatically create users that exist in AR System or Service Manager but do not exist in Jasper Server, and will automatically map ARS/SM administrators to Jasper Server administrators.

## Configuring SSO Plugin

You must first set up SSO Plugin to enable the Identity Federation Service:

1. Login to the Mid Tier or Web Tier SSO Plugin configuration page.
2. Tick 'Enable Identity Federation Service'.
3. Enter a unique key or press the button to create one. Take a note of the key.
4. Press 'Set configuration' and ensure the SSO Plugin still functions using the 'Test SSO' link.

## Installing SSO Plugin for Jasper Server

To enable SSO Plugin for Jasper Server, the following steps must be followed to copy the plugin to Jasper Server:

1. Login to Jasper Server and ensure you know the password for the Administrator account. This will allow you to login manually should you need to troubleshoot the SSO integration once complete.
2. Locate the jasperserver directory in the SSO Plugin installation files. Copy the jss-sso-jasperserver.jar file into the Jasper Server Apache Tomcat WEB-INF/lib directory, typically found in C:\Program Files\Jasper Server\apache-tomcat\webapps\jasperserver\WEB-INF\lib.
3. The Jasper Server web.xml file requires patching. We provide a tool on the JSS support website to do this for you (<http://www.javasystemsolutions.com/jss/service>) and recommend you use it, or you can do this manually by following these steps:
  - a. Open the web.xml.patch file from jasperserver installation directory, select all and copy to clipboard.
  - b. Open the web.xml file from Jasper Server Apache Tomcat directory, ie webapps\jasperserver\WEB-INF\web.xml.
  - c. Paste the block of text copied to clipboard after the XSS filter, ie.

```
<filter>
  <filter-name>XSS</filter-name>
  <filter-
class>com.jaspersoft.jasperserver.war.security.CrossScriptingFilter</filter-
class>
</filter>
<!-- Patch for SSO Plugin -->
<filter>
  ...
```

- d. Referring to the patch pasted above, perform the following changes:
  - i. **identityFederationServiceURL:** This points to the identity federation service running on the SSO Plugin installation. The identity federation service URL is /jss-sso/identityfederationservice, relative to the Mid Tier or Web Tier installation. Therefore, if the Mid Tier or Web Tier is installed at:

```
http://bmcMid Tier or Web Tier:8080/arsys
```

the **identityFederationServiceURL** is:

```
http://bmcMid Tier or Web Tier:8080/arsys/jss-sso/identityfederationservice
```

- ii. **key:** This must be set to the federated identity key set in the Mid Tier or Web Tier SSO Plugin interface.
4. Open the "installation authorisation service" document and patch the files detailed in the section "Configuring Jasper Reports".
5. Restart the Jasper Server Tomcat instance.
6. Navigate to: <http://host/jasperserver> You should now be logged in as the AR System or Service Manager user to which your SSO user is mapped.

## Group mapping

By default, the following AR System and Service Manager groups are mapped to a Jasper Server administrator user: Administrator, Incident Config, Asset Config, Change Config, Problem Config, Release Config, SLM Config, SRM Administrator.

You can specify a custom group mapping from ARS/SM ITSM to Jasper Server by editing the SSOPluginUserDetailsService bean configured in the Spring applicationContext-security.xml file. This example shows how Problem Manager can be mapped to the Jasper Server role `ROLE_PROBLEM_MANAGER` (note, the `ROLE_` is not specified in the mapping, but `ROLE_PROBLEM_MANAGER` must be setup in Jasper Server):

```
<bean
class="com.javasystemsolutions.integrations.spring.security.SSOPluginUserDe
tailService">
  <property name="sessionFactory" ref="sessionFactory" />
  <property name="userAuthorityService"
ref="jss.txproxy.userAuthorityService" />
  <property name="groupMapping"><map>
    <entry key="Problem Manager">
      <value>PROBLEM_MANAGER</value>
    </entry>
  </map></property>
</bean>
```

The administrator groups can also be configured by adding the following to the bean:

```
<property name="adminGroups"><list>
  <value>Group name</value><value>Another group name</value>
</list></property>
```

Jasper Server must be restarted when this file is changed.

## Restricting access

If you want to restrict SSO access to Jasper Reports, a set of groups (of which a user must be a member of at least one) can be configured. To do this, locate the SSOPluginPreAuthFilter and add the text in bold:

```
<bean id="jss.j2eefilter"
class="com.javasystemsolutions.integrations.spring.security.SSOPluginPreAut
hFilter">
  <property name="authenticationManager" ref="authenticationManager"/>
  <property name="allowGroups"><list>
    <value>Reporting Group</value>
  </list></property>
</bean>
```