



# **Cisco Tidal Enterprise Scheduler BusinessObjects BI Platform Adapter Guide**

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## Preface

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This guide describes the installation, configuration, and usage of the BusinessObjects BI Platform Adapter with Cisco Tidal Enterprise Scheduler (TES).

## Audience

This guide is for administrators who install and configure the BusinessObjects BI Platform Adapter for use with TES, and who troubleshoot TES installation and requirements issues.

## Related Documentation

See the *Cisco Tidal Enterprise Scheduler Documentation Overview* for your release on cisco.com at:

<http://www.cisco.com/c/en/us/support/cloud-systems-management/tidal-enterprise-scheduler/products-documentation-roadmaps-list.html>

...for a list of all TES guides.



### Note

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We sometimes update the documentation after original publication. Therefore, you should also review the documentation on Cisco.com for any updates.

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## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see What's New in Cisco Product Documentation at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

Subscribe to What's New in Cisco Product Documentation, which lists all new and revised Cisco technical documentation, as an RSS feed and deliver content directly to your desktop using a reader application. The RSS feeds are a free service.

## Document Change History

The table below provides the revision history for the BusinessObjects BI Platform Adapter Guide.

Version Number	Issue Date	Reason for Change
6.1.0	October 2012	<ul style="list-style-type: none"><li>• New Cisco version.</li></ul>
6.2.1	June 2014	<ul style="list-style-type: none"><li>• Available in online Help only.</li></ul>
6.2.1 SP2	June 2015	<ul style="list-style-type: none"><li>• Configuration provided in the <i>TES Installation Guide</i>; usage provided in online Help only.</li></ul>
6.2.1 SP3	May 2016	<ul style="list-style-type: none"><li>• Consolidated all BusinessObjects BI Platform Adapter documentation into one document.</li></ul>



# Introducing the BusinessObjects BI Platform Adapter

This chapter provides an overview of the BusinessObjects BI Platform Adapter and its requirements:

- [Overview](#)
- [Prerequisites](#)

## Overview

The Business Objects BI Platform (BOBIP) Adapter supports SAP's BusinessObjects Business Intelligence 4.0 release (formally known as SAP® BusinessObjects™ Enterprise). Like Enterprise Scheduler's BusinessObjects (BO) Adapter, the BOBIP Adapter provides integration to BO XI functionality. The Enterprise Scheduler's BusinessObjects Adapter is not supported on BO XI 4. Unlike the BO Adapter, the BOBIP Adapter does not support BusinessObjects Data Services. Data Services is supported using Cisco Tidal BusinessObjects Data Services Adapter (BODS).

SAP Product	TES Adapter supports...		
	BusinessObjects (BO)	BusinessObjects BI Platform (BOBIP) *	BusinessObjects Data Services (BODS)
BusinessObjects XI	Yes	Yes	No
BusinessObjects XI 4	No	Yes	No
BusinessObjects Data Services	Yes	No	Yes

\* Documented in this guide. See the *BusinessObjects Adapter Guide* or *BusinessObjects Data Services Adapter Guide* for documentation on those adapters.

BusinessObjects BI Platform is an SAP certified solution that uses SAP's BusinessObjects Business Intelligence SDKs to provide a seamless integration that embeds BO XI4 functionality in the standard Enterprise Scheduler screens. This allows schedulers to connect to BusinessObjects BI Platform servers and define BOBIP tasks as part of Enterprise Scheduler job definitions. The Adapter queries the BusinessObjects BI Platform InfoStore to discover folders and objects such as reports and Web Intelligence that can be scheduled with full parameter support. As a platform independent solution, the adapter can run on any platform where the Enterprise Scheduler master runs.

The BOBIP Adapter enforces Business Objects BI Platform security by authenticating through associations between Enterprise Scheduler runtime users and BOBIP users. Creating a BOBIP job from Enterprise Scheduler is highly secure, and as simple as creating any other job. A job definition refers to a Crystal Report, Web Intelligence, Publishing, or Program object as defined in Business Objects. Based on defined scheduling criteria, the adapter submits a BOBIP task to run through the Business Objects BI Platform Job Scheduling service.

Once a job has been submitted, the BOBIP Adapter monitors it through completion. The BOBIP Adapter returns the final completion status (used to control downstream jobs) as well as details associated with the run to the console. In addition, the BOBIP Adapter lets users cancel, hold/resume, abort and rerun tasks from Enterprise Scheduler, a feature that provides significantly more control over the environment than afforded by scripting or other non-integrated scheduling solutions.

The BOBIP Adapter also provides event triggers that allow users to be notified via email (or other alerting mechanism) when new content (report or Web Intelligence data) is available. Output can be attached, or for greater security, can include a hyperlink to the BOBIP document on the server requiring that users log on before opening the document. The BOBIP Adapter is event-based. It launches processes based on defined calendars and schedules and uses asynchronous callbacks for monitoring, enabling users to see status changes in real time and to control those processes as they execute. This capability reduces production processing time windows, because the BOBIP Adapter does not need to wait for a polling interval to pass before reacting to the completion of a BOBIP task.

## Prerequisites

For the BusinessObjects BI Platform, you need to configure your firewall to grant the BOBIP Adapter access to ports 6400 to 6405, 8080, 1948, and 4205. If you override any of these default ports, verify the ports required to communicate with BO BI Platform are open.





# Configuring the BusinessObjects BI Platform Adapter

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## Overview

The BOBIP Adapter software is installed as part of a standard installation of Enterprise Scheduler. However, you must perform the following steps to license and configure the adapter before you can schedule and run BO BI Platform jobs:

- [Licensing an Adapter](#) – Apply the license to the Adapter. You cannot define a BusinessObjects BI Platform connection until you have applied the license from Cisco.
- [Securing the Adapter](#) – Define BusinessObjects BI Platform users that the adapter can use to establish authenticated sessions with the BO BI Platform server and permit requests to be made on behalf of the authenticated account.
- [Using WinAD or LDAP Authentication](#) – Configure authentication as necessary for your environment.
- [Configuring the HTTPS Protocol](#) – Configure the HTTPS protocol if used in your environment.
- [Defining a BOBIP Adapter Connection](#) – Define a connection so the master can communicate with the BO BI Platform server.

See [Configuring service.props](#) for details about configuring service.props to control such things as polling, output, and log gathering.

## Licensing an Adapter

Each TES Adapter must be separately licensed. You cannot use an Adapter until you apply the license file. If you purchase the Adapter after the original installation of TES, you will receive a new license file authorizing the use of the Adapter.

You might have a Demo license which is good for 30 days, or you might have a Permanent license. The procedures to install these license files are described below.

### To license an Adapter:

---

**Step 1** Stop the master:

Windows:

- a. Click **Start** and select **Programs>TIDAL Software>Scheduler>Master>Service Control Manager**.
- b. Verify that the master is displayed in the **Service** list and click on the **Stop** button to stop the master.

UNIX:

Enter **tesm stop**

**Step 2** Create the license file:

- For a Permanent license, rename your Permanent license file to *master.lic*.
- For a Demo license, create a file called *demo.lic*, then type the demo code into the *demo.lic* file.

**Step 3** Place the file in the **C:\Program File\TIDAL\Scheduler\Master\config** directory.

**Step 4** Restart the master:

Windows:

Click **Start** in the Service Control Manager.

UNIX:

Enter **tesm start**

The master will read and apply the license when it starts.

**Step 5** To validate that the license was applied, select **Registered License** from **Activities** main menu.

## Securing the Adapter

There are two types of users associated with the BOBIP Adapter, **Runtime Users** and **Schedulers**. You maintain definitions for both types of users from the **Users** pane.

- **Runtime Users**

Runtime users in the context of BOBIP jobs represent those users and passwords required for authentication. BusinessObjects BI Platform operations require authentication against a valid BOBIP user as defined by a BusinessObjects BI Platform administrator. You can also use runtime users to override data source logons used by your reports.

- **Schedulers**

Schedulers are those users who will define and/or manage BOBIP jobs. There are three aspects of a user profile that grant and/or limit access to scheduling jobs that affect BOBIP:

- Security policy that grants or denies add, edit, delete and view capabilities for BOBIP jobs.
- Authorized runtime user list that grants or denies access to specific authentication accounts for use with BOBIP jobs.
- Authorized agent list that grants or denies access to specific BOBIP Adapter connections for use when defining BOBIP jobs.

## Defining Runtime Users

To define a runtime user:

- Step 1** From the **Navigator** pane, expand the **Administration** node and select **Runtime Users** to display the defined users.
- Step 2** Right-click **Runtime Users** and select **Add Runtime User** from the context menu (*Insert* mode).  
-or-  
Click the **Add** button on the menu bar.  
The **User Definition** dialog displays.
- Step 3** Enter the new user name in the **User Name** field.
- Step 4** For documentation, enter the **Full Name** or description associated with this user.
- Step 5** In the **Domain** field, select a Windows domain associated with the user account required for authentication, if necessary.
- Step 6** To define this user as a runtime user for BOBIP jobs, click **Add** on the **Passwords** tab.
- Step 7** Select **BO BI Platform** from the **Password Type** list.
- Step 8** Enter a password (along with confirmation) in the **Password/Confirm Password** fields.  
Only those users with a password specified for BOBIP will be available for use with BOBIP jobs. The password might be the same as the one specified for Windows/FTP jobs.
- Step 9** Click **OK** to return to the **User Definition** dialog.  
The new password record displays on the **Passwords** tab.

The screenshot shows the 'User Definition [BOBIP Runtime User]' dialog box. It has three tabs: 'Passwords', 'Kerberos', and 'Description'. The 'Passwords' tab is selected. At the top, there are three text input fields: 'User Name' (containing 'BOBIP Runtime User'), 'Full Name' (containing 'BOBIP Runtime User'), and 'Domain' (containing 'Enterprise'). To the right of these fields are 'OK' and 'Cancel' buttons. Below the tabs, there is a section for 'Windows/FTP/DataMover' with two empty text boxes. Underneath is a table with the following structure:

Adapter	Password	Description
BO BI Platform Password	***	

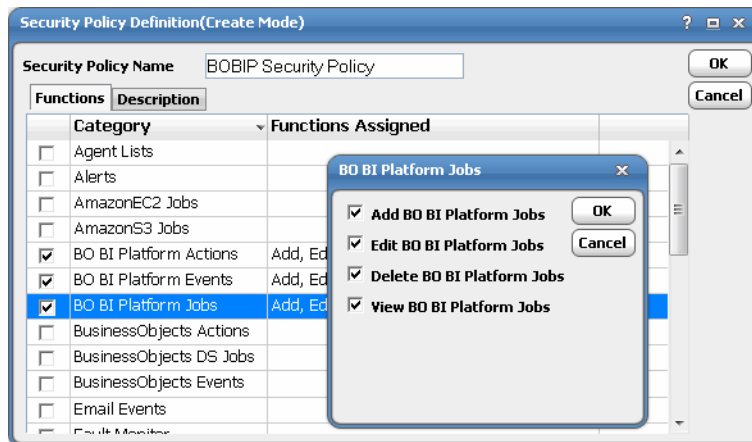
To the right of the table are three buttons: 'Add', 'Edit', and 'Delete'.

- Step 10** Click **OK** to add or save the user record in the TES database.  
For further information about the **User Definition** dialog, see your *Cisco Tidal Enterprise Scheduler User Guide*.

## Authorizing Schedulers to Work With BOBIP Jobs

To authorize Schedulers:

- Step 1** From the **Navigator** pane, select **Administration>Security Policies** to display the **Security Policies** pane.
- Step 2** Right-click **Security Policies** and select **Add Security Policy** from the context menu. You can also right-click to select an existing security policy in the **Security Policies** pane and select **Edit Security Policy**.



- Step 3** In the **Security Policy Name** field, enter a name for the policy.
- Step 4** On the **Functions** page, scroll to the **BOBI Platform Jobs** category, click the ellipses on the right-hand side of the dialog and select the check boxes next to the functions that are to be authorized under this policy (**Add, Edit, Delete and View BO BI Platform Jobs**).
- Step 5** Click **Close** on the **Function** drop-down list.
- Step 6** Click **OK** to save the policy.

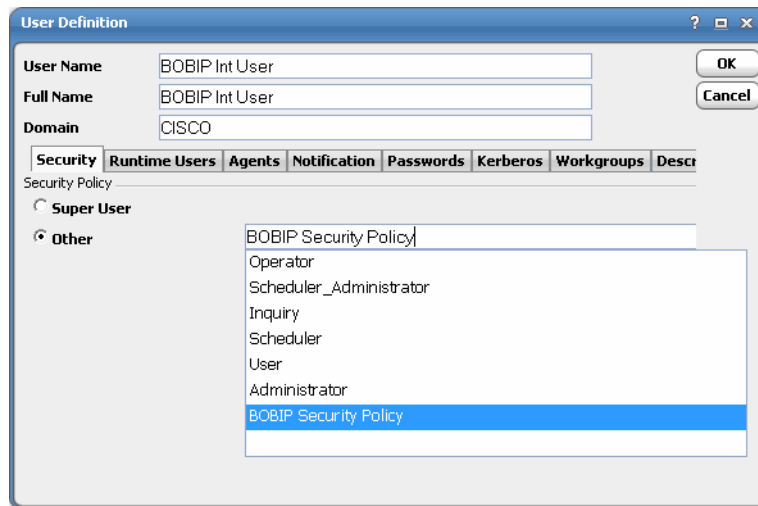
For further information about setting up security policies, see your *Cisco Tidal Enterprise Scheduler User Guide*.

## Defining BOBIP Scheduler Users

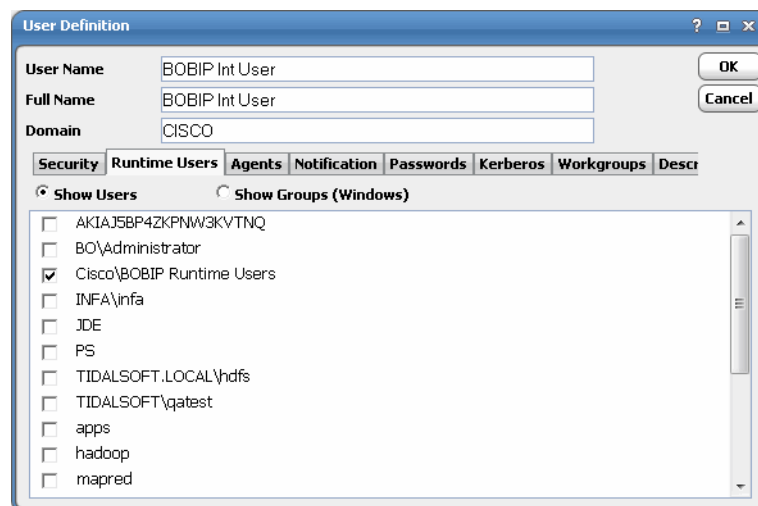
To define a Scheduler user to work with BOBIP jobs:

- Step 1** From the **Navigator** pane, expand the **Administrative** node and select **Interactive Users** to display the defined users.
- Step 2** Right-click **Interactive Users** and select **Add Interactive User** from the context menu (*Insert mode*). You can also right-click a user in the **Interactive Users** pane and select **Edit Interactive User** from the shortcut menu (*Edit mode*).

The **User Definition** dialog displays.



- Step 3** If this is a new user definition, enter the new user name in the **User/Group Name** field.
- Step 4** For documentation, enter the **Full Name** or description associated with this user.
- Step 5** In the **Domain** field, select a Windows domain associated with the user account required for authentication, if necessary.
- Step 6** On the **Security** page, select the **Other** option and then select the security policy that includes authorization for BOBIP jobs.
- Step 7** Click the **Runtime Users** tab.



- Step 8** Select the BOBIP users that this scheduling user can use for BOBIP authentication from BOBIP jobs.
- Step 9** Click the **Agents** tab.
- Step 10** Select the checkboxes for the BOBIP connections that this scheduling user can access when scheduling jobs.
- Step 11** Click **OK** to save the user definition.

## Using WinAD or LDAP Authentication

If you are using WinAD or LDAP authentication, you need to configure the location of the login configuration.

**To use WinAD or LDAP authentication:**

---

**Step 1** Go to the `master/services/{89561999-da3e-486a-9209-3d6024f4fef3}` folder.

**Step 2** Create a subfolder called `config`, if it does not already exist.

**Step 3** Create a text file named `service.props` if it does not already exist.

**Step 4** Open the `service.props` text file and add the following line:

```
LoginConfig=c:\\windows\\bscLogin.conf
```

...or wherever the login configuration is located. Note the use of `\\` if this is a Windows location.

**Step 5** Restart the master after creating/updating this file.

See [Configuring service.props](#) for other parameters that can be set in `service.props` related to polling, output, and log gathering.

## Configuring the HTTPS Protocol

It is recommended that BusinessObjects BI Platform Web servers be configured to use SSL via the HTTPS protocol for Data Services/Data Integrator. If your environment is configured to use HTTP, you can skip this section.

For complete instructions on configuring BusinessObjects BI Platform servers to use the HTTP or HTTPS protocol, refer to the BusinessObjects documentation that ships with the product.

## Obtain Security Certificates

From a Windows desktop, you can obtain a security certificates for each target BusinessObjects BI Platform server using the Microsoft Internet Explorer Certificate Cache.



**Note**

Although other procedures are available for obtaining the required certificates, the procedure below can be performed from your Windows desktop.



**Note**

You need to carry out the following instructions only if your server certificate is generated in-house (that is, self-signed) or if your server certificate is signed by a Certification Authority that is not trusted by the version of Java you are using. Alternatively, if your adapter connection fails by reporting the error “unable to find valid certification path to requested target” you need to carry out the following instructions.

### To obtain target BusinessObjects BI Platform server security certificates

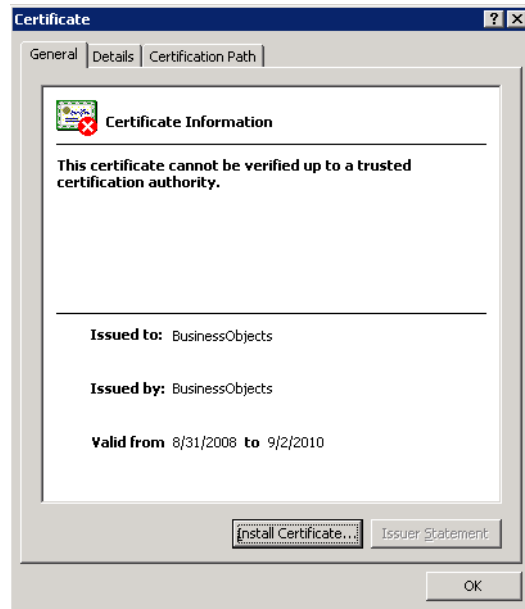
- Step 1** Open the Internet Explorer browser and navigate to the following dispatch URL (replacing servername and port as it applies to your environment).

```
https://<adminHost:adminPort>/admin/servlet/webservices
```

where `adminHost` is where the Data Integrator Administrator is installed and `adminPort` is the port the Data Integrator Administrator is listening on.

A **Security Alert** message displays.

- Step 2** Click **View Certificate** to open the **Certificate** dialog.



- Step 3** Click **Install Certificate**.
- Step 4** On the **Certificate Import Wizard Welcome** panel, click **Next**.
- Step 5** On the **Certificate Store** panel, use the default option **Automatically select the certificate store based on the type of certificate** and click **Next**.
- Step 6** On the **Completing Certificate Import Wizard** panel, click **Finish**.
- Step 7** If a **Security Warning** message displays informing you that you are about to install a certificate from a certification authority, click **Yes** to continue with the certificate installation.  
A message stating *The import was successful* displays.
- Step 8** Click **OK** to close the message and return to the **Certificate** dialog.
- Step 9** Click **OK** on the **Certificate** dialog. You can close your browser now.
- Step 10** Repeat the process for each BusinessObjects server that you want to connect to with the BusinessObjects adapter.

## Export Security Certificates

After you have obtained the security certificates for the target servers, you must export them from the Internet Explorer cache to a local directory.

### To export the cached certificates to a local directory

- 
- Step 1** On the local computer, create the following directory for the certificates:
- ```
C:\BO-Certs
```
- Step 2** In Internet Explorer, select **Tools>Internet Options**.
- Step 3** On the **Internet Options** dialog, select the **Content** tab.
- Step 4** In the Certificates area, click **Certificates**.
- Step 5** On the **Certificates** dialog, select the **Trusted Root Certification Authorities** tab to display the list of trusted certificates. This list should contain the certificates for the target servers that were obtained in the previous procedure (see “Obtain Security Certificates”).
- Step 6** Scroll through the list of certificates to find the certificates.
- Step 7** Perform the following procedure for each target server certificate:
- Select the certificate and click **Export** to launch the Certificate Export Wizard.
  - On the **Welcome** panel, click **Next**.
  - On the **Export File Format** panel, use the default option DER encoded binary X.509 (.CER) and click **Next**.
  - On the **File To Export** panel, enter the complete path to the *BO-Certs* directory and a unique name for the certificate:
 

```
C:\BO-Certs\servername.cer
```
  - Click **Next**.
  - On the **Completing the Certificate Export Wizard** panel, click **Finish** to complete the export. A message stating The export was successful displays.
  - Click **OK** to close the message box.
- Step 8** After all target server certificates have been exported, click **Close** to exit the **Certificates** dialog.
- Step 9** Click **OK** to close the **Internet Options** dialog.

## Import Target Server Certificates into a Java Keystore

You must now import the target server certificates into a local Java keystore.



### Note

These instructions assume that a JRE or JDK is in your system PATH.

### To import certificates into a Java keystore

- 
- Step 1** Open a Windows **Command Prompt** window.
- Step 2** Change to the directory where the certificates are stored by entering the following commands:



```
c:
cd \BO-Certs
```

**Step 3** Use the Java keytool utility to import a certificate. The following syntax is used:

```
keytool -import -file <certificate-filename> -alias <servername>-keystore
<your_trusted_keystore.keystore-filename>
```

For example:

```
C:\BO-Certs>keytool -import -file sdkpubs01.crt -alias sdkpubs01 -keystore
BOXI.keystore
```

**Step 4** When prompted to create a password for the keystore, enter a password at the prompt. The keystore utility displays the certificate information.

**Step 5** At the **Trust this certificate? [no]** prompt, type **yes** and press **Enter**. The certificate is imported into the **<your\_trusted\_keystore>.keystore** keystore and the following message displays:

```
Certificate was added to keystore
```

**Step 6** Repeat this procedure for each target server.

**Step 7** Navigate to the following folder where the Enterprise Scheduler BusinessObjects adapter is installed and create a new directory named **config**:

```
<install_dir>\master\services\{88EBA24D-7B9A-4EAC-855B-F29D99CE37E9}\config
```

**Step 8** Create a text file named *service.props* if it does not already exist.

**Step 9** Open the *service.props* text file and add the following line:

```
Keystore=c:\\BO-Certs\\<your_trusted_keystore>.keystore
```

Note the use of escaped backslashes for windows directories.

See [Configuring service.props](#) for other parameters that can be set in service.props related to polling, output, and log gathering.

## Defining a BOBIP Adapter Connection

You must create one or more BOBIP connections before TES can run your BOBIP jobs. These connections also must be licensed before TES can use them. A connection is created using the **Connection Definition** dialog.

### Adding a BOBIP Adapter Connection

To add a connection:

**Step 1** From the **Navigator** pane, navigate to **Administration>Connections** to display the **Connections** pane.

**Step 2** Right-click **Connections** and select **Add Connection>BusinessObjects BI Platform Adapter** from the context menu.

The **BusinessObjects BI Platform Adapter Connection Definition** dialog displays.

Connection Definition (Edit Mode) [BO BI Adapter[BO BI Platform]]

BO BI Platform Adapter

Name: BO BI Adapter

General BusinessObjects BI Platform Connection Options Outages Description

Job Limit: 10

Default Runtime User: BO\Administrator

Enabled  Use as default for BO BI Platform Jobs

**Step 3** On the **General** page, enter a name for the new connection in the **Name** field.

**Step 4** In the **Job Limit** field, select the maximum number of concurrent active processes that Enterprise Scheduler should submit to the BusinessObjects BI Platform server at one time.

**Step 5** From the **Default Runtime User** drop-down list, you have the option to select the name of a default user for BusinessObjects BI Platform jobs. The runtime user is used for authentication with BusinessObjects BI Platform to authorize scheduled operations.

Only authorized users that have been defined with BusinessObjects BI Platform passwords display in this list. The selected user is automatically supplied as the default runtime user in a new Enterprise Scheduler BusinessObjects BI Platform job definition.

**Step 6** Click the **BusinessObjects BI Platform Connection** tab.

Connection Definition (Edit Mode) [BO BI Adapter[BO BI Platform]]

BO BI Platform Adapter

Name: BO BI Adapter

General BusinessObjects BI Platform Connection Options Outages Description

BusinessObjects BI Platform Connection

Central Management Server: sjc-bo4-qa1.tidalsoft.local

User: BO\Administrator

Authentication: Enterprise

Version: 14.0

Restrict jobs to objects owned by runtime user

Test

Enabled  Use as default for BO BI Platform Jobs

**Step 7** In the **Central Management Server** field, enter the name of your BusinessObjects cms server.

If you are connecting using a port that is not the default port, you may need to include a port, preceded by colon (for example, **hou-boe-01:6400**).

**Step 8** From the **User** list, select the associated Runtime User for BusinessObjects BI Platform to be used for connecting to BusinessObjects BI Platform.

This is a persistent user connection to BusinessObjects BI Platform that is only used for administration and monitoring and for jobs with a matching runtime user. Jobs with a different runtime user specified will create additional temporary connections.

**Step 9** In the **Authentication** field, select the appropriate method of authentication for the user supplied.

It will default to the domain associated with the **User** field if the domain matches a valid authentication method for BusinessObjects BI Platform (for example, Enterprise, WinAD or LDAP). See also, “Using WinAD or LDAP Authentication”.

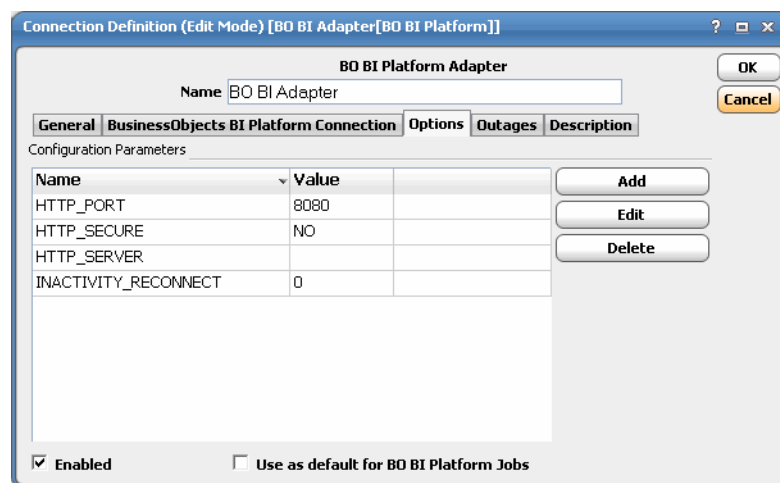
**Step 10** From the **Version** list, select the version of BO BI Platform to be connected to.

**Step 11** Click the **Test** button to test the connection.

**Step 12** Select the **Restrict jobs to objects owned by runtime user** option if you want to limit which reports or Web Intelligence objects can be selected when defining jobs.

**Step 13** Click the **Test** button to test the connection.

**Step 14** Click the **Options** tab to configure parameters for this connection.



The following parameters are available:

- **HTTP\_PORT** – If Tomcat on the BusinessObjects BI Platform server uses a port other than the default of 8080, use **HTTP\_PORT** to specify an override value for the port. This is only used for constructing URLs that link to BusinessObjects BI Platform documents.
- **HTTP\_SECURE** – If Tomcat on the BusinessObjects BI Platform server uses SSL (HTTPS), set **HTTP\_SECURE** to **YES** and **HTTP\_PORT** to **8443** (or other configured port). This only applies when the adapter constructs a URL that links to a BusinessObjects BI Platform document
- **HTTP\_SERVER** – If the server used for InfoView (OpenDocument interface) differs from the Central Management Server, specify that server here so that the correct URL can be constructed to bring up BusinessObjects BI Platform documents.
- **INACTIVITY\_RECONNECT** – The number of minutes of connection inactivity that will trigger a reconnect before job launch. Default is 0.

**Step 15** Click **OK** to save the new BusinessObjects BI Platform connection.

The configured connection displays in the **Connections** pane.

The status light next to the connection indicates whether the Enterprise Scheduler Master is connected to the BusinessObjects BI Platform server. If the light is green, the BusinessObjects BI Platform server is connected.

A red light indicates that the master cannot connect to the BusinessObjects BI Platform server. BusinessObjects BI Platform jobs will not be submitted without a connection to the BusinessObjects BI Platform server. You can only define jobs from the Client if the connection light is green.

If the light is red, you can test the connection to determine the problem. Right-click the connection and select **Test** from the shortcut menu. A message displays on the **Test BusinessObjects BI Platform Connection** dialog describing the problem. Or go to **Operator | Logs** to look for error messages associated with this connection.



# Using the BusinessObjects BI Platform Adapter

## Overview

This chapter describes how to use the BusinessObjects BI Platform Adapter in these topics:

- [Defining BOBIP Jobs](#)
- [Defining BOBIP Events](#)
- [Defining a BOBIP Action](#)
- [Monitoring Job Activity](#)
- [Controlling Adapter and Agent Jobs](#)

## Defining BOBIP Jobs

This section provides instructions for defining a BOBIP job in Enterprise Scheduler and descriptions of the various types of tasks and options that can be included in the jobs. You define jobs to run BO BI Platform reports and Web Intelligence.

**To define a BOBIP job:**

- 
- Step 1** In the **Navigator** pane, select **Definitions>Jobs** to display the **Jobs** pane.
- Step 2** Right-click **Jobs** and select **Add>BusinessObjects BI Platform Job** from the context menu. The **BusinessObjects BI Platform Job Definition** dialog displays. The **Run** tab is selected by default. You must first specify a name for the job, the BOBIP Adapter connection that will be used for the job and a valid runtime user who has the appropriate BusinessObjects BI Platform authority for the report being scheduled
- Step 3** In the upper portion of the dialog, specify the following information to describe the job:
- **Job Name** – Enter a name that describes the job.
  - **Job Class** – If you want to assign a defined job class to this job, select it from the drop-down list. This field is optional.
  - **Owner** – Select the BOBIP owner of the selected report/ Web Intelligence. The user must have the appropriate BusinessObjects BI Platform authority for the operation.

- **Parent Group** – If this job exists under a parent group, select the name of the parent group from the drop-down list. All properties in the **Agent Information** section are inherited from its parent job group.
- Step 4** Specify the following connection information in the **Agent/Adapter Information** section:
- **Agent/Adapter Name** – Select the BOBIP Adapter connection to be used for this job from the drop-down list.
  - or-
  - **Agent List Name** – Select a list for broadcasting the job to multiple servers.
  - **Runtime User** – Select a valid runtime user with the appropriate BusinessObjects BI Platform authority for the job from the drop-down list.
- Step 5** Specify the appropriate Tracking and Duration information for the job. Refer to the *Cisco Tidal Enterprise Scheduler User Guide* for information on these options.
- Step 6** Click the **BusinessObjects BI Platform** tab.

You can create and schedule jobs in TES to perform various types of BusinessObjects BI Platform tasks, such as Crystal Report, Web Intelligence, Program and Publishing.

- Step 7** Select one of the following task types from the **Task** drop-down list:
- **Crystal Report**
    - **Folder** – Select the folder that contains the report you want to schedule
    - **Crystal Report Name** – Select the report from the list (or locate and select it from the **Browser** tab.)
    - **Description** – A description of the selected report displays in this field. This field is read-only.

- **Add Job Class Prefix** – Select this option if you want to automatically use the Job Class name as the prefix for the title of the report.

**To use this option:**

- Select a report template (named report without a prefix).
- Select **Add Job Class Prefix** to load the object named by this prefix followed by the report template name. The “Title” label is replaced with the current job class.

This option allows you to create multiple jobs from the same template by simply copying the job and changing the job class without editing the job details. When jobs of this type are included in a group, you can create templates that differ only in terms of the group's job class and local variables, simplifying the creation of multiple instances from the same template.

- **Web Intelligence**

- **Folder** – Select the folder that contains the Web Intelligence you want to schedule
- **Web Intelligence Name** – Select the Web Intelligence name from the list (or locate and select it from the **Browser** tab.)
- **Description** – A description of the selected Web Intelligence displays in this field. This field is read-only.
- **Refresh List of Values** – Select this option to automatically refresh the List of Values associated with the selected Web Intelligence before running it.
- **Add Job Class Prefix** – Select this option if you want to automatically use the Job Class name as the prefix for the title of the report.

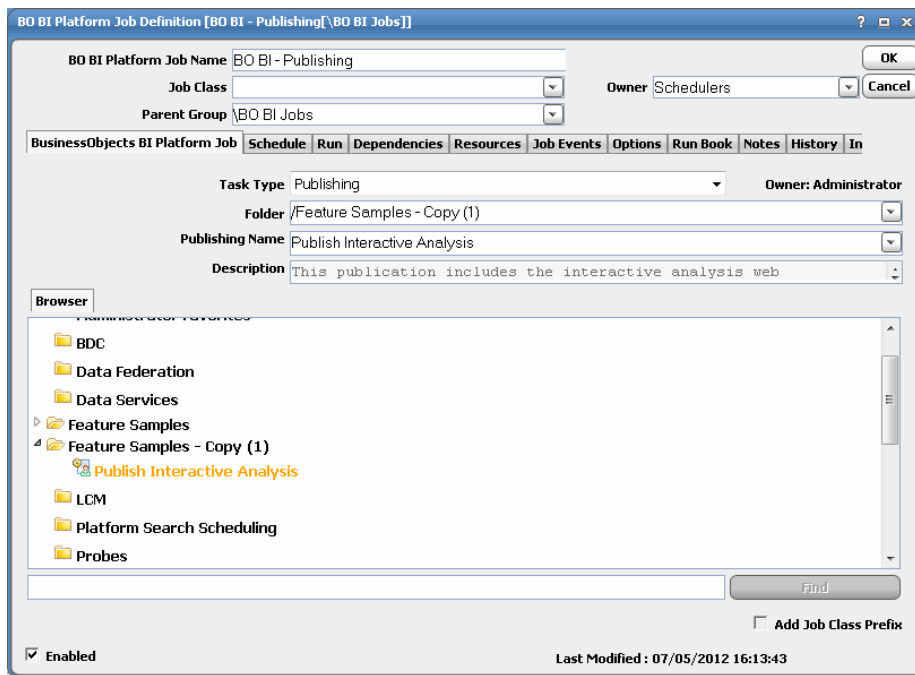
**To use this option:**

- Select a report template (named report without a prefix).

- b. Select **Add Job Class Prefix** to load the object named by this prefix followed by the report template name. The “Title” label is replaced with the current job class.

This option allows you to create multiple jobs from the same template by simply copying the job and changing the job class without editing the job details. When jobs of this type are included in a group, you can create templates that differ only in terms of the group's job class and local variables, simplifying the creation of multiple instances from the same template.

- **Publishing**



- **Folder** – Select the folder that contains the publication you want to schedule
- **Publishing Name** – Select the name of the publication you want to schedule.
- **Description** – A description of the selected publication displays in this field. This field is read-only.
- **Add Job Class Prefix** – Select this option if you want to automatically use the Job Class name as the prefix for the title of the report.

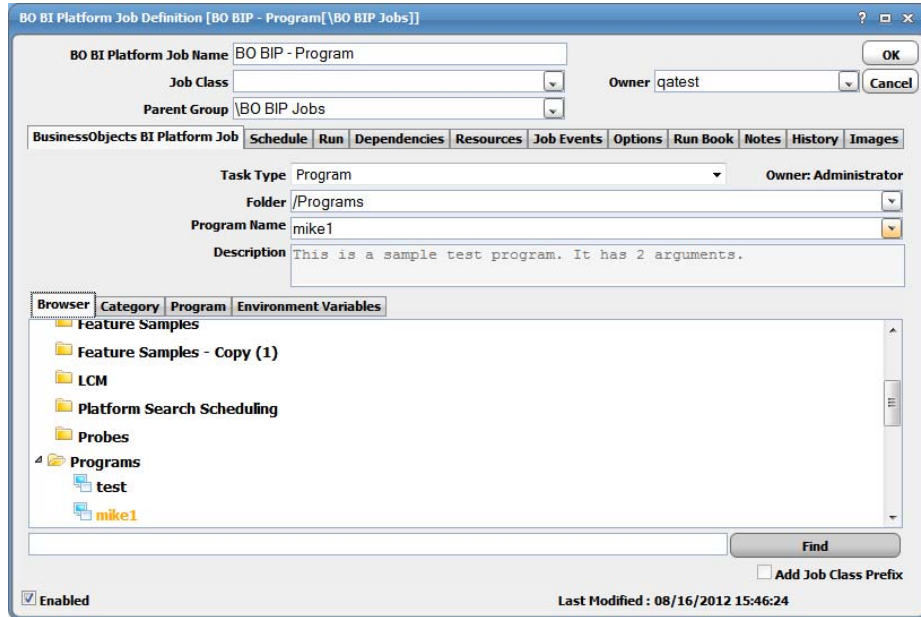
**To use this option:**

- a. Select a report template (named report without a prefix).
- b. Select **Add Job Class Prefix** to load the object named by this prefix followed by the report template name. The “Title” label is replaced with the current job class.

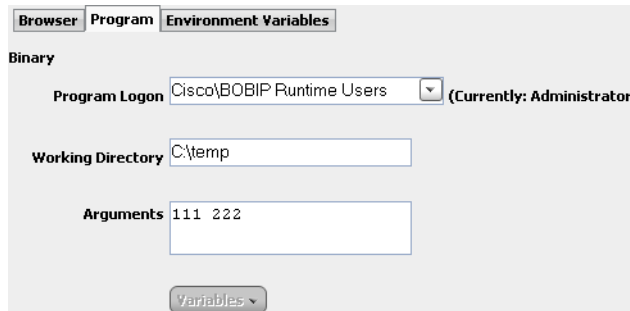
This option allows you to create multiple jobs from the same template by simply copying the job and changing the job class without editing the job details. When jobs of this type are included in a group, you can create templates that differ only in terms of the group's job class and local variables, simplifying the creation of multiple instances from the same template.

- **Program**





- **Folder** – Select the folder that contains the program you want to schedule
- **Program Name** – Select name of the program you want to schedule.
- **Description** – A description of the selected program displays in this field. This field is read-only.
- **Program tab**



- **Program Logon** – From this list, select the BOBI Platform user account under which the program should run.
- **Working Directory** – Enter the full path to the directory that you want to set as the program object's working directory.
- **Arguments** – Enter the command-line arguments for your program.
- **Environment Variables tab** – Specify the environment variables you want to set.

| Environment Variable | Value |
|----------------------|-------|
| State                | CA    |
| ZIP                  | 94087 |

- **Add Job Class Prefix** – Select this option if you want to automatically use the Job Class name as the prefix for the title of the report.

**To use this option:**

- Select a report template (named report without a prefix).
- Select **Add Job Class Prefix** to load the object named by this prefix followed by the report template name. The “Title” label is replaced with the current job class.

This option allows you to create multiple jobs from the same template by simply copying the job and changing the job class without editing the job details. When jobs of this type are included in a group, you can create templates that differ only in terms of the group's job class and local variables, simplifying the creation of multiple instances from the same template.

- Step 8** You can search for a folder or item by entering part of the folder or item name in the **Find** field (located below the **Browser** tab), then click **Find**. Click **Find** again to find the next occurrence. After the last occurrence, **Find** will begin its search from the beginning again.



**Note** When using Find, all content will be expanded, so you will see an hourglass while the entire Info Store is loaded.

The **Owner** field displays the BOBIP owner of the selected report/Web Intelligence. This is read only.

- Step 9** For all jobs, except for **Publishing** and **Program** jobs, click the **Options** tab.

This tab contains the following elements:

- **Format** – Select the desired format from the list (e.g. PDF, HTML, CSV, etc.)  
If selecting CSV from the **Format** list, click **Option** to format the CSV options via the **Formatting Options and Settings** dialog.

This dialog contains the following elements:

- **Text qualifier** – Enter the optional character that you want to surround a field. The default qualifier is ‘.
- **Column delimiter** – Enter the character you want to use to delimit columns. The default is ,.
- **Charset** – Enter the character set you want to use.
- **Generate separate CSV per Data Provider** – Select to generate a separate Comma Separated Value per provider.
- **Instance Title** – Enter an Instance Title for the run of the report. Variables can be used in this field to uniquely identify each run of a report.
- **Printer** – Enter the name of a printer as defined to BusinessObjects BI Platform. This option is for Crystal Reports only.
- **Copies** – Select the number of copies to be printed.
- **Save As** – Optionally enter the full local path where you want the output to be saved. The output is saved on the master machine (or use UNC or network mount to save it elsewhere). You can use variables in this field.
- **Custom Tag** – This field allows you to associate an identifier that you can refer to in a BOBIP event.

For example, if your event sends an email about a new report, you can insert the custom tag as a variable in the email's subject line or body text. You can use a variable in this field such as a local group variable that identifies the customer to which this run applies.

**Step 10** Click the **Category** tab.

Browser Options **Category**

Choose a category for the report (or parent category if using variable below)

- Personal Categories
  - Administrator
  - Test Category
- Corporate Categories
  - Excluded from Content Search
  - Content Indexing Failures

Category (using Variable)  Variables

You can select an existing Personal or Corporate category from the category tree. To dynamically determine the category at runtime, select a parent category from the tree and enter a value with variable(s) selected from the **Variables** button in the **Category** text field.

**Step 11** If you are scheduling a report, click the **Parameters** tab.

| Parameter                        | Current Value | Override Value |
|----------------------------------|---------------|----------------|
| Enter Column1 - type:            | Actuals       |                |
| Select the month/year for column | 032004        |                |
| Enter Column2 - type:            | Budget        |                |
| Select the month/year for column | 032004        |                |

You can enter an override value for any parameter, including Scheduler variables selected with the **Variables** button. For parameters with a specific set of predefined default set of values, you can select the value from the drop-down.

You can override the current value for the associated prompt by right-clicking the parameter and selecting **Override** option from the context menu. The **Parameter Values** dialog displays. You can also insert Scheduler variables as needed by clicking the **Variables** button and selecting the variable from the list.

The **Parameter Value(s) Override** dialog displays.

Parameter Value(s) for Enter Column1 - type: (String) - Required

Parameter Value(s) for Enter Column1 - type: (String) - Required

Current Value(s)

Actuals

Default Value(s)

Actuals, Budget

Override Value(s)-Enter Column1 - type:

Guidelines

Use commas to separate multiple values, or put each value on a separate line.  
 For ranges, use an underscore ( \_ ) between low and high values. You may omit the low or high value to leave that part of the range open-ended.  
 In a range, prefix the lower and/or upper value with ~ for that range to be exclusive rather than inclusive of that value.  
 To use a variable, position the cursor in the value field, and click the Variables button.

Variables ▾

OK

Cancel

**Step 12** Enter the new parameter value in the field provided corresponding to the parameter shown at the top of the screen.

For Web Intelligence jobs, the **Prompt Value Dialog** displays.

The **List Of Values** options are:

- **LOV.Current** – If selected, the current values will be used as override values.
- **LOV.Previous** – If selected, the previous values will be used as override values.
- **LOV.Default** – If selected, the default values will be used as override values.
- **LOV.All** – If selected, all values will be used as override values.



**Note** You can also use the Variable button to insert a variable anywhere into this field.

#### Parameter Guidelines

- Use commas to separate multiple values, or put each value on a separate line
- For ranges, use an underscore ( \_ ) between low and high values. You can omit the low or high value to leave that part of the range open-ended.
- In a range, prefix the lower and/or upper value with ~ for that range to be exclusive rather than inclusive of that value.
- To use a variable, position the cursor in the value field, and click the **Variables** button.

**Step 13** Click **OK** to save the override parameters.

**Step 14** Click the **Logons** tab if you need to specify logon overrides for any of the data sources used by the report or Web Intelligence.

To use this feature, you need to set up runtime users for the logon overrides you need. See [Defining Runtime Users](#).

| Browser  | Options | Category | Parameters | Logons |                                                                 |
|----------|---------|----------|------------|--------|-----------------------------------------------------------------|
| Database | Server  |          |            |        |                                                                 |
|          |         |          |            |        | Logon                                                           |
|          |         |          |            |        | Override                                                        |
|          |         |          |            |        | http://resources.businessobjects.com/support/downloads/samples/ |
|          |         |          |            |        | http://resources.businessobjects.com/support/downloads/samples/ |

- Step 15** Select the runtime user you want to use as a logon override for the data source logon.
- Step 16** If you are creating a **Web Intelligence** job, click the **Prompts** tab.

| Browser                                    | Options | Category | Prompts                                    | Current Value | Override Value |
|--------------------------------------------|---------|----------|--------------------------------------------|---------------|----------------|
|                                            |         |          | <b>Prompt</b>                              |               |                |
|                                            |         |          | Compare 2005 data with the following Year: | 2006          | 2004           |
|                                            |         |          | Enter Month:                               |               | 3              |
| <input type="button" value="Override..."/> |         |          |                                            |               |                |

You can override the current value for the associated prompt by right-clicking the prompt and selecting **Override** option from the context menu. The **Prompt Value** dialog displays.

You can also insert Scheduler variables as needed by clicking the **Variables** button and selecting the variable from the list.



**Note** If a prompt is bold, then a value is required.

- Step 17** Click **OK** to save the job.

## Defining BOBIP Events

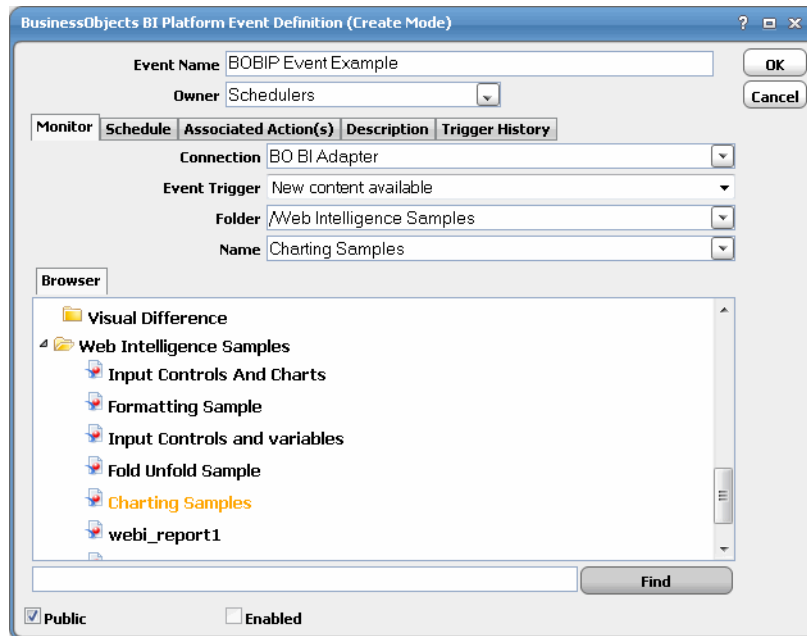
Using the BOBIP Adapter, you can define events that can be used for alerting and invoking an automated response through email and/or inserting additional jobs into the schedule. The **Event Definition** dialog is displayed when you add or edit a BOBIP event. Enterprise Scheduler can monitor events and then take one or more actions when the event trigger occurs. You must configure a calendar for the event from the **Schedule** tab to schedule when the event is enabled (that is, when monitoring will occur). If needed, you can configure the monitor to operate only during certain time periods or leave the monitor in operation at all times.

## BusinessObjects BI Platform Event Definition

To define a BOBIP event:

- Step 1** In the **Navigator** pane, select **Definitions>Events>BusinessObjects BI Platform Events** to display the **BusinessObjects BI Platform Events** pane.
- Step 2** Right-click **BusinessObjects BI Platform Events** and select **Add>BusinessObjects BI Platform Event** from the context menus.

The **BusinessObjects BI Platform Event Definition** dialog displays.



**Step 3** Enter a name for the event in the **Event Name** field and select an **Owner** from the drop-down list.

**Step 4** In the **Monitor** area, specify the following information:

- **Connection** – Select the BOBIP connection from the drop-down list. This is the connection that will be monitored for the specified event.
- **Event Trigger** – Select the condition that causes Scheduler to trigger the associated actions. Currently, the only event trigger is when new report or Web Intelligence output is available from a job run from the adapter.
- **Folder** – Select the folder containing the report or Web Intelligence. You can use wildcards in this field (including asterisks and question marks).
- **Name** – Select the name or instance title of the Crystal Report or Web Intelligence you want to trigger the alert. You can use wildcards in this field (including asterisks and question marks).



**Note** The other tabs on the BusinessObjects BI Platform Event Definition dialog are general event configuration options and are not specific to the BOBIP Adapter. Any action that is available in Enterprise Scheduler, such as sending email, generating alerts, sending SNMP traps, setting variables, and adding jobs is available as a response to a BOBIP event.

**Step 5** You can search for a report by entering part of the folder or report name in the **Find** field (located below the **Browser** tab), then click **Find**. Click **Find** again to find the next occurrence. After the last occurrence, **Find** will begin its search from the beginning again.



**Note** When using Find, all content will be expanded, so you will see an hourglass while the entire Info Store is loaded.

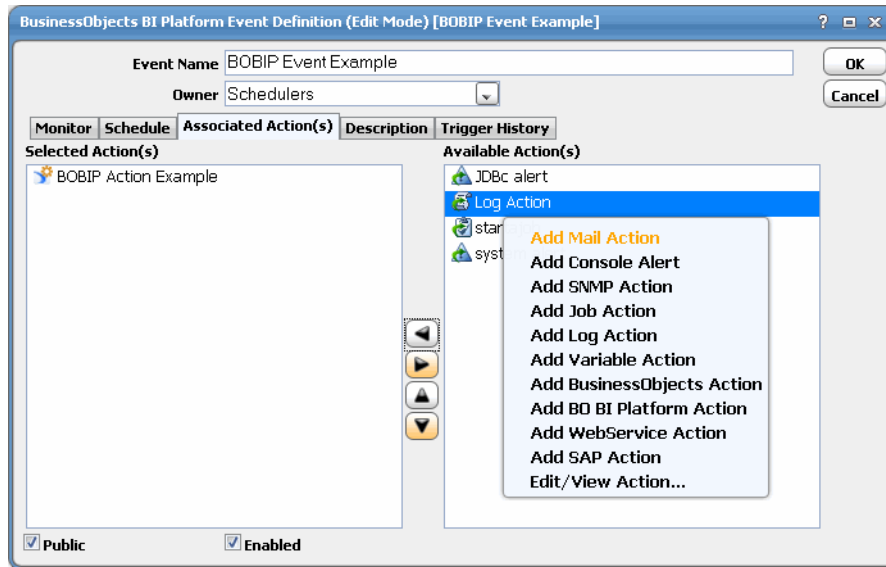
**Step 6** Click **OK** to save the event definition.

## Define an Action for a BOBIP Event

You can add any action for a BOBIP event that is available in Enterprise Scheduler.

**For example, to define an email action for a BOBIP event:**

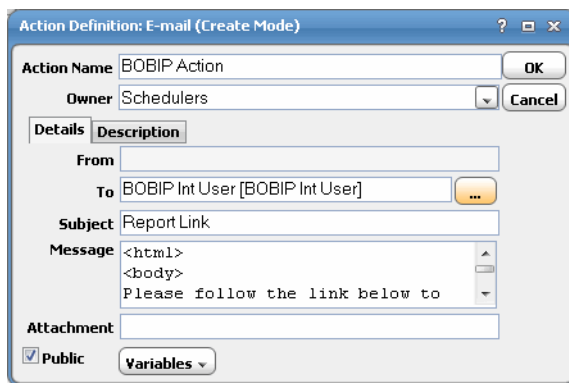
**Step 1** From the **Event Definition** dialog, click on the **Associated Actions** tab.



**Step 2** In the **Available Actions** section, right-click and select **Add Mail Action**.

Figure 1 Adding Mail Action

The **Action Definition: E-Mail** dialog displays.



The BOBIP event variables that are available with the BOBIP Adapter are shown below, and only apply when the action is associated with a BOBIP event.

- **Folder** – Folder containing the report or Web Intelligence object.
- **Title** – Title of the new report or Web Intelligence document that is available.



- **Address** – The URL that links to the output on the BusinessObjects BI Platform server using the OpenDocument plugin. See Page 20 for information on overriding HTTP defaults.
- **HTML Link** – Refers to an HTML fragment that you can embed as a hyperlink inside of an HTML document, such as the body of an email.

For example:

```
<html><body>
Please follow the link below to view your new <BOBIP.Title> report:<br><br>
<BOBIP.HTML>
</body></html>
```

- **Job ID** – The job id of the report.
- **InfoObject ID** – ID of the report or Web Intelligence object.
- **InfoObject CUID** – Cluster Unique ID that uniquely identifies the new report or Web Intelligence content.
- **Output File** – Full path to the first output file created on the BusinessObjects BI Platform server.
- **Category** – Category name.
- **Custom Tag** – The custom tag defined for the job that generated the alert. See [Defining BOBIP Events](#) for how this custom tag is defined.
- **Event Output** – Description of the event that took place.

**Step 3** Complete the required fields on the **Action Definition** dialog and click **OK**.

## Defining a BOBIP Action

The BOBIP Adapter allows you to trigger BOBIP events as an Enterprise Scheduler Action type. This action can then be associated with any Enterprise Scheduler event, including job events such as “Job Completed Normally” or file, email, variable events, etc (refer to Enterprise Scheduler documentation on how to associate actions with scheduling events). When the action triggers a custom event in BOBIP, any pending scheduled task waiting on the event will kick off.

### To define an action:

- 
- Step 1** In the **Navigator** pane, select **Definitions>Actions>BusinessObjects BI Platform Actions** to display the **BusinessObjects BI Platform Actions** pane.
  - Step 2** Right-click **BusinessObjects BI Platform** and select **Add Action** from the context menus.
  - Step 3** On the Scheduler toolbar, click the **Add** button to display the **Action Definition** dialog.

- Step 4** In the **Action Name** field, enter the name of the new BOBIP action.
- Step 5** Select the owner of the action from the **Owner** list.
- Step 6** From the **BusinessObjects BI Platform Connect** list, select the CMS server where you want to trigger an event.



**Note** For the BOBIP custom event trigger to work reliably from a Scheduler action, the clocks on the CMS server machine and the Scheduler master machine must be synchronized (using a time service or other synchronization mechanism).

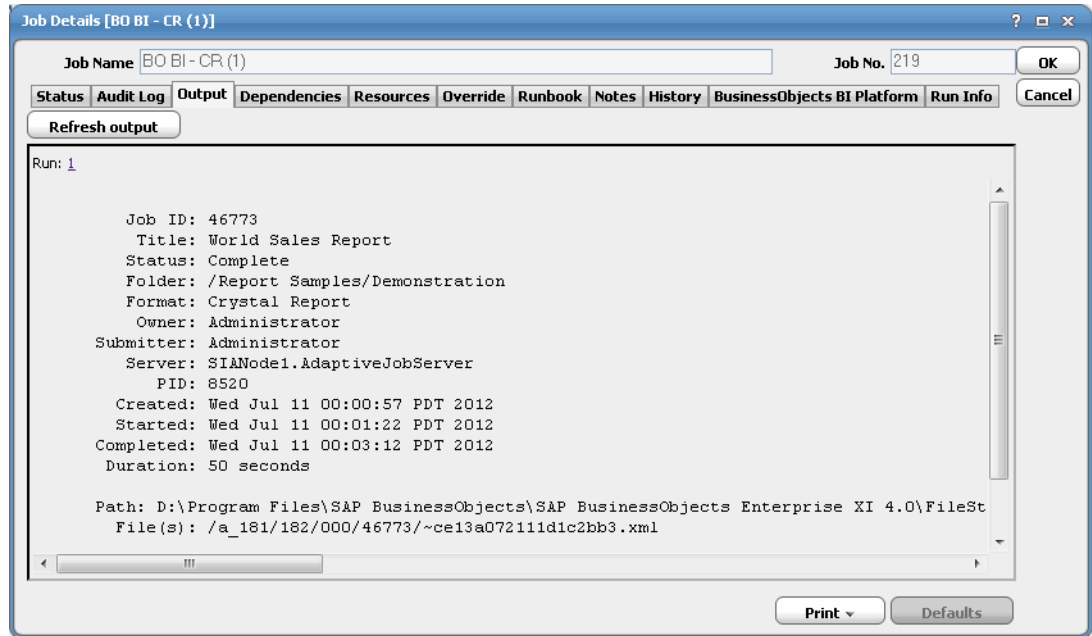
- Step 7** From the **Custom Event** list, select the event that you want to trigger with this action. The **Description** field is a read-only field that displays the description corresponding to the selected custom event.

## Monitoring Job Activity

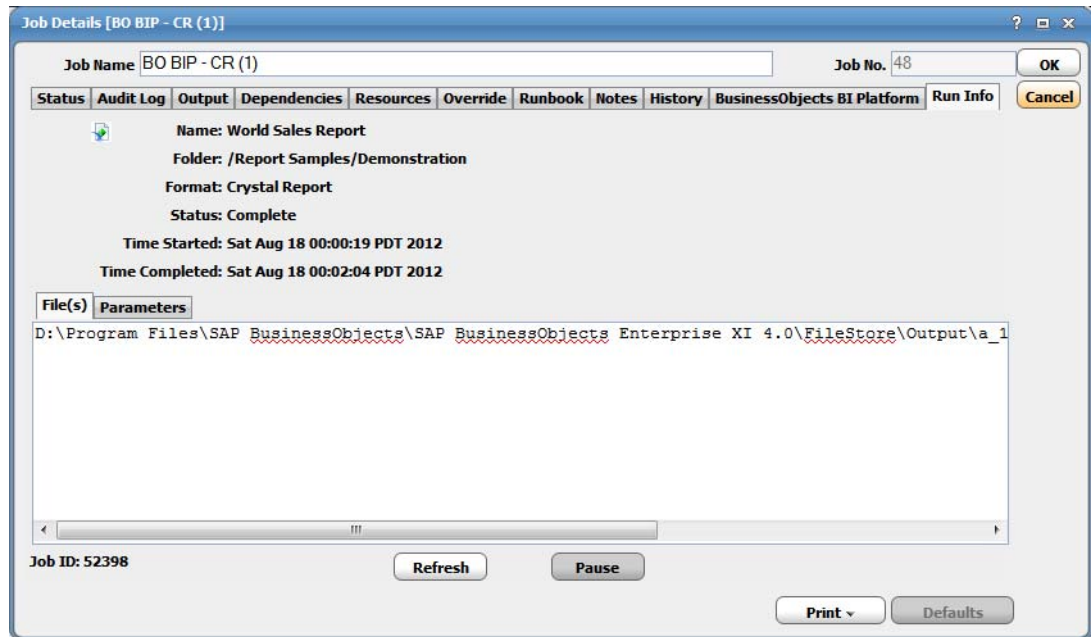
As BOBIP tasks run as pre-scheduled or event-based jobs, you can monitor the jobs as you would any other type of job in Enterprise Scheduler using the **Job Details** dialog. You can also use Business Views to monitor job activity and view when the jobs are active (see the *Cisco Tidal Enterprise Scheduler User Guide* for instructions).

### To monitor job activity:

- Step 1** In the **Navigator** pane, select **Operations > Job Activity** to display the **Job Activity** pane.
- Step 2** Right-click to select a job and choose **Details** from the context menu. The **Job Details** dialog displays. The **Status** page displays by default. You can view the status of the job, the start and end time, how long it ran, and how it was scheduled. The external ID is the BOBIP job number.
- Step 3** Click the **Output** tab to view a task summary after the job completes.



**Step 4** Click the **Run Info** tab to view additional details about the job. You can also view this tab to view information about the runtime status while the job is running, including any messages.



**Step 5** Click the **Parameters** tab. Here you will see the parameter values that were in effect during this run.

File(s)	Parameters
Column1	- type=Actuals
Column1	- mm/yyyy=032004
Column2	- type=Budget
Column2	- mm/yyyy=032004

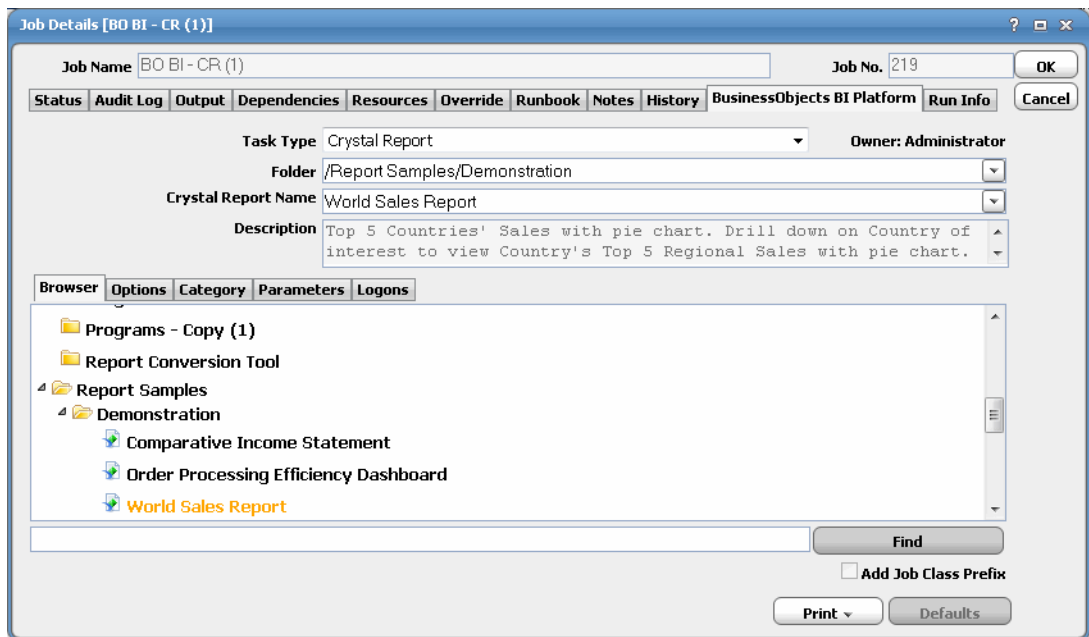
**Step 6** If you run a job that completes abnormally, you can click the **Errors** tab to view notes associated with the failure.

Errors	File(s)	Parameters
Error in File ~tmp1c587215a822da0.rpt: Invalid argument for database.		

**Step 7** If you run a Program type job, click the **Results** subtab to view the output from the program.

File(s)	Results
C:\temp>echo off This is a test of an external application Run from BO Arg1=111 Arg2=222 Env1=94087 C:\temp Volume in drive C has no label. Volume Serial Number is 24CA-7671  Directory of C:\temp  04/06/2012 06:49 PM <DIR> . 04/06/2012 06:49 PM <DIR> .. 12/09/2011 07:37 PM 0 abc.txt 12/06/2011 08:00 PM 150 budgetreport.htm	

**Step 8** Click the **BusinessObjects BI Platform** tab to view the job definition details and the variables that were used when the job was submitted.



While the job is running, the fields are disabled; however, prior to running or rerunning the job, you can override any value on this screen. Your changes here only apply to this instance of the job (the original job definition is not affected).

**Step 9** When you have finished viewing the job activity details, click **OK** to close the dialog.

## Controlling Adapter and Agent Jobs

Scheduler provides the following job control capabilities for either the process currently running or the job as a whole:

- [Holding a Job](#)—Hold a job waiting to run.
- [Aborting a Job](#)—Abort an active job.
- [Rerunning a Job](#)—Rerun a job that completed.
- [Making One Time Changes to an Adapter or Agent Job Instance](#)—Make last minute changes to a job.
- [Deleting a Job Instance before It Has Run](#)—Delete a job instance before it has run.

### Holding a Job

Adapter/agent jobs are held in the same way as any other Scheduler jobs.

Adapter/agent jobs can only be held before they are launched. Once a job reaches the Adapter/Agent system, it cannot be held or suspended.

#### To hold a job:

- 
- Step 1** From the **Job Activity** pane, right-click on the job.
- Step 2** Select **Job Control > Hold/Stop**.

### Aborting a Job

Adapter/agent jobs are aborted in the same way as any other Scheduler jobs.

#### To abort a job:

- 
- Step 1** From the **Job Activity** pane, right-click on the job.
- Step 2** Select **Job Control > Cancel/Abort**.

### Rerunning a Job

On occasion, you may need to rerun an Adapter/Agent job. You can override parameter values first, if necessary, from the Adapter/Agent tab.

**To rerun a job:**

- 
- Step 1** From the **Job Activity** pane, right-click the Adapter/Agent job you need to rerun.
- Step 2** Select **Job Control>Rerun** option from the context menu.

## Making One Time Changes to an Adapter or Agent Job Instance

Prior to a run or rerun, you can edit data on the specific **Adapter/Agent** tab. To ensure that there is an opportunity to edit the job prior to its run, you can set the **Require operator release** option on the **Options** tab in the Adapter **Job Definition** dialog. Use this function to make changes to an Adapter job after it enters Waiting on Operator status as described in the following procedure.

**To make last minute changes:**

- 
- Step 1** From the **Job Activity** pane, double-click the Adapter/Agent job to display the **Job Details** dialog.
- Step 2** Click the Adapter tab.
- Step 3** Make the desired changes to the job and click **OK** to close the **Job Details** dialog.
- Step 4** If this job is Waiting on Operator, perform one of the following tasks:
- To release the job, select **Job Control->Release**.
  - To rerun the job with changes, select **Job Control->Rerun**.

## Deleting a Job Instance before It Has Run

Adapter/Agent job instances are deleted in the same way as any other Scheduler job.

Deleting a job from the **Job Activity** pane removes the job from the Scheduler job activity only. The original definition is left in tact.

**To delete a job instance:**

- 
- Step 1** From the **Job Activity** pane, right-click the Adapter/Agent job to be deleted.
- Step 2** Select **Remove Job(s) From Schedule**.



# Configuring service.props

## About Configuring service.props

The **service.props** file is used to configure adapter behavior. **service.props** is located in the \config directory located under the Adapter’s GUID directory, You can create both the directory and file if it does not yet exist. Properties that can be specified in service.props control things like logging and connection configuration. Many of the properties are specific to certain adapters; others are common across all adapters.

## service.props Properties

The table below lists many of the parameters that can be specified in service.props. Some properties apply to all adapters (shaded in the table) and some properties are adapter-specific as indicated by the **Applicable Adapter(s)** column. The properties are listed in alphabetical order.

Property	Applicable Adapter(s)	Default	What It Controls
BYPASS_SEC_VALIDATION	Oracle Apps	N	If set to Y, the secondary user validation is bypassed. If not, secondary user validation is performed.
CLASSPATH	All	<none>	(Optional) – The path to the JDBC driver. If the default CLASSPATH used when the Adapter process is started does not include an appropriate JDBC driver jar required to connect to the PowerCenter Repository Database, you will need to specify this <i>service.props</i> configuration
CONN_SYNC	All	N	Setting this flag to Y allows synchronous connections without overloading the ROnly Thread. If set to N, the adapter might stop trying to reconnect after an outage or downtime.
DISCONN_ON_LOSTCONN	Informatica	N	Setting this flag to Y avoids an unnecessary logout call to the Informatica server when the connection is lost. This logout call usually hangs.

Property	Applicable Adapter(s)	Default	What It Controls
EnableDynamicPollingInterval	All	N	Use to avoid frequent polling on long-running jobs. When set to Y in service.props of a particular adapter, these properties are enabled: MinDynamicPollInterval—Minimum value should be 5 seconds. MaxDynamicPollIntervalInMin—Maximum value should be 5 minutes. PercentOfEstDuration—Default value is 5.
IGNORE_CODES	Informatica	<none>	This parameter can be set in service.props, job configuration and connection configuration parameters. The order of precedence is service.props (applicable for all jobs running in all connections), job level (only for that particular job), and connection (applicable for all jobs in the connection). This parameter is used to specify Informatica-specific error codes, separated by commas (,), that you want to ignore while running a job.
IGNORESUBREQ	Oracle Apps	N	Y or N. Setting this flag to Y stops huge job xml file transfers back and forth between the adapter and the AdapterHost during polls when a single request set has multiple sub-requests of more than 100. The default value is N or empty.
jarlib	Hive and MapReduce	<none>	Specifies the specific Java library to use for the adapter: <ul style="list-style-type: none"> <li>For Apache 1.1.2, add: <b>jarlib=apache1.1.2</b></li> <li>For Cloudera 3, add: <b>jarlib=cloudera</b></li> <li>For Cloudera 4, add: <b>jarlib=cdh4</b></li> <li>For MapR add: <b>jarlib=apache1.1.2</b></li> </ul>
kerbrealm	MapReduce	<none>	If the Hadoop cluster is Kerberos secured, use this value to specify the Kerberos Realm. For example, <b>kerbrealm=TIDALSOFT.LOCAL</b>
kerbkdc	MapReduce	<none>	If the Hadoop cluster is Kerberos secured, use this value to specify the KDC Server. For example, <b>kerbkdc=172.25.6.112</b>



Property	Applicable Adapter(s)	Default	What It Controls
Keystore	BusinessObjects , BusinessObjects BI, BusinessObjects DS, Cognos, JD Edwards, Oracle Applications, UCS Manager, VMware, Web Service	<none>	Specify Keystore=c:\\<adapter_certificate_directory>\\<your_trusted_keystore>.keystore  when importing certificates into a Java keystore.
LAUNCH_DELAY (in milliseconds)	Informatica	<none>	This parameter can be set in service.props, job configuration and connection configuration parameters. The order of precedence is service.props (applicable for all jobs running in all connections), job level (only for that particular job), and connection (applicable for all jobs in the connection). If a non-zero value is set for this parameter, then the jobs are delayed for the specified number of milliseconds before being submitted to Informatica.
LoginConfig	BusinessObjects BI Platform, BusinessObjects Data Services	<none>	Specifies the location of the login configuration if using WinAD or LDAP authentication. For example:  LoginConfig=c:\\windows\\bscLogin.conf  where "c:\\windows\\bscLogin.conf" is the location of the login configuration information. Note the use of \\ if this is a Windows location.
MaxLogFiles	Informatica, JDBC	50	(Optional) – Number of logs to retain. Defaults to 50 if not specified.
OUTPUT_ASYNC_LOGOUT	Informatica	N	Setting this flag to Y avoids jobs getting stuck in Gathering Output status.
OUTPUT_SYNC	All	Y	Enables concurrent output gathering on a connection. To enable this feature, set the value to N in service.props of this adapter.
POLL_SYNC	All	Y	Enables concurrent polling on connections of the same type. This is helpful when there is a heavily load on one connection of an adapter. The heavily loaded connection will not affect the other adapter connection. To enable this feature, set the value to N in the service.props of this adapter.
QUERY_TIMEOUT	Oracle Apps	N	Y or N. If set to Y, the timeout value defined using the parameter QUERY_TIMEOUT_VALUE is applied to the SQL queries. Default value is N or empty.

Property	Applicable Adapter(s)	Default	What It Controls
QUERY_TIMEOUT_VALUE	Oracle Apps	unset	The time period in seconds that SQL queries wait before timeout. If 0 or not set, there is no timeout.
READPCHAINLOG	SAP	Y	Used to control the log gathering in SAP Process Chain jobs. This property depends on the Summary Only check box of the job definition Options tab.
SCANFOR_SESSIONSTATS	Informatica	Y	Y or N - Set this parameter to N to turn off the default behavior of Informatica jobs collecting the session statistics during the job run.
SCANFOR_SESSIONSTATS_AFTER_WF_ENDS	Informatica	N	Y or N - Set this parameter to Y to turn off the gathering of session statistics during each poll for the status of Informatica jobs.
TDLINFA_LOCALE	Informatica	<none>	Points to the Load Manager Library locale directory. See “Configuring the Informatica Adapter” in the <i>Informatica Adapter Guide</i> for how to set this for Windows and Unix environments.
TDLJDBC_LIBPATH	JDBC (Windows only, optional)	<none>	An alternate path to the JDBC library files. The library file path should have been configured given system environment variables. This option is available in case you wish to use an alternate set of libraries and may be helpful for trouble-shooting purposes.
TDLJDBC_LOCALE	JDBC	<none>	The path to the JDBC locale files.
TDLINFA_REQUESTTIMEOUT	Informatica	<none>	(Optional) – The number of seconds before an API request times out. The default is 120 seconds, if not specified.
TRANSACTION_LOG_BATCH_SIZE	MS SQL	5000	Set this parameter if more than 5000 lines need to be read from the transaction table.
version_pre898	JD Edwards	N	If running on a JD Edwards server version that is less than 8.9.8, set version_pre898=Y.