



Cisco Tidal Enterprise Scheduler OS/400 Adapter Guide

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Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

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Cisco Tidal Enterprise Scheduler OS/400 Adapter Guide
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Preface

This guide describes the installation, configuration, and usage of the OS/400 Adapter with Cisco Tidal Enterprise Scheduler (TES).

Audience

This guide is for administrators who install and configure the OS/400 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

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

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>.

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Document Change History

The table below provides the revision history for the Cisco Tidal Enterprise Scheduler OS/400 Adapter Guide.

Version Number	Issue Date	Reason for Change
6.1.0	October 2012	<ul style="list-style-type: none">New Cisco version.
6.2.1	June 2014	<ul style="list-style-type: none">Available in online Help only.
6.2.1 SP2	June 2015	<ul style="list-style-type: none">Configuration provided in the <i>TES Installation Guide</i>; usage provided in online Help only.
6.2.1 SP3	May 2016	<ul style="list-style-type: none">Consolidated all OS/400 Adapter documentation into one document.



Introducing the OS/400 Adapter

This chapter provides an overview of the OS/400 Adapter and its requirements:

- [Overview](#)
- [Minimum Software Requirements](#)
- [Prerequisites](#)

Overview



Note

IBM has renamed the AS/400-OS/400 product line to the iSeries. The adapter continues to work on the iSeries family. This manual refers to the product line as OS/400.

Creating an OS/400 job within the TES is similar to creating any other TES job. The differences are in the configuration prior to creating OS/400 jobs, and in the additional information required for a complete OS/400 job definition.

To operate properly, the OS/400 adapter from TES has the following requirements and prerequisites.

Minimum Software Requirements

The minimum software releases for the TES OS/400 adapter implementation are:

- OS/400 versions V5 R2-R4, V6
- Cisco Tidal Enterprise Scheduler Adapters require Java 7.

See your *Cisco Tidal Enterprise Compatibility Guide* for a full list of requirements.

Prerequisites

There are different authorities required depending on whether the user is submitting the job or having the job submitted for them.

The following services must be running on the OS/400 machine:

- Command

- File
- Print
- Dataqueue'

There are different authorities required depending on whether the user is submitting the job or having the job submitted for them.

A user defined on the OS/400 manages the connection to the OS/400 and submits jobs to run under different users. This user is strongly recommended to have QSECOFR authorities and be able to issue the **SBMJOB** command. This user must have:

- *USE authority to the other user's profile
- *USE authority to the command specified in the Command parameter and *EXECUTE authority to the library containing that command
- *READ authority to the job description (JOBDD) and *EXECUTE authority to the library containing that job description
- *USE authority to the job queue (JOBQ) and *EXECUTE authority to the library containing that job queue
- *USE and *ADD authority to the message queue (MSGQ) and *EXECUTE authority to the library containing that message queue
- *USE authority to the sort sequence table (SRTSEQ) and *EXECUTE authority to the library containing that sort sequence table
- *EXECUTE authority to all auxiliary storage pool (ASP) device descriptions in the initial ASP group (INLASPGRP)

The user that the job is being submitted for (as specified in the **User** field on the **Page 4** tab described in [Page 4 Tab](#)) must have the following authorities:

- *USE authority to the job description (JOBDD)
- *READ authority to the output queue (OUTQ) and *EXECUTE authority to the library containing that output queue
- *USE authority to all auxiliary storage pool (ASP) device descriptions in the initial ASP group (INLASPGRP)
- *USE authority to the library specified for the current library (CURLIB) parameter
- *USE authority to all the libraries specified for the initial library list (INLLIBL) parameter



Configuring the OS/400 Adapter

Overview

The OS/400 Adapter software is installed as part of a standard installation of Enterprise Scheduler. However, before the OS/400 Adapter can be used, the following configuration procedures must be completed:

- [OS/400 Configuration Overview](#)
- [Licensing an Adapter](#)
- [Defining an OS/400 User](#)
- [Defining an OS/400 Connection](#)

See [Minimum Software Requirements](#) and [Prerequisites](#) for information about what you need to use the OS/400 Adapter with TES.

See also [Configuring service.props](#) for information about general and adapter-specific properties that can be set to control things like logging and connection properties.

OS/400 Configuration Overview

While the OS/400 adapter software is already installed as part of a normal installation of Scheduler, you must perform the following steps to license and configure the adapter before you can run OS/400 jobs. These steps are described in more detail in the following sections.

To license and configure the adapter:

-
- Step 1** License the connection(s) to the OS/400 machine. You cannot define an OS/400 connection until you have applied the OS/400 license from TIDAL Software. Refer to [Licensing an Adapter](#).
 - Step 2** Define an OS/400 user as a runtime user in TES and add this user to other users' runtime users list. Refer to [Defining an OS/400 User](#)
 - Step 3** Define an OS/400 connection so the master can communicate with a OS/400 machine. Refer to [Defining an OS/400 Connection](#).
 - Step 4** (Optional) Set parameters in the service.props file to control polling, output, and logging. Refer to [Configuring service.props](#).

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.

Defining an OS/400 User

Before you can create OS/400 jobs, a user with access to the OS/400 server must be defined to TES. This user must have QSECOFR capabilities.

TES cannot run any OS/400 job unless it knows the user name(s) and password(s) needed for OS/400 access. TES then interacts with the OS/400 server as that defined user, exchanging information to monitor and control the execution of the OS/400 jobs through TES. Other users in TES are authorized to run OS/400 jobs on behalf of OS/400 runtime users.

Adding an OS/400 User to TES

To add an OS/400 user:

-
- Step 1** From the **Navigator** pane, select **Administration>Runtime Users** to display the **Runtime Users** pane.
 - Step 2** Click the **Add** button  or right-click and select **Add Runtime Users** from the context menu to display the **User Definition** dialog.
 - Step 3** If this is a new user definition, 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** In the **Windows/FTP Password** field, enter the password for the OS/400 user account provided by the OS/400 Administrator.
 - Step 7** In the **Confirm Password** field, retype the password.
If the passwords entered in the **Windows/FTP Password** and **Confirm Password** fields do not match, you must re-enter the password in both fields.
 - Step 8** Click **OK** to add or save the user record in the Enterprise Scheduler database.

Authorizing Scheduler Users to Run OS/400 Jobs

If a TES user is to work with OS/400 jobs, they must have a defined OS/400 user in their authorized runtime user list. If an OS/400 user is not added to a TES user's authorized runtime users list, the user has no access to the OS/400 server and cannot run OS/400 jobs. Similarly, you grant or deny access to specific OS/400 servers in the user's authorized agents list.

Adding an OS/400 User to a User's Authorized Runtime User List

To add an OS/400 user:

-
- Step 1** From the **Navigator** pane, select **Administration>Runtime Users** to display the **Runtime Users** pane listing all TES users. If the TES users do not appear, you do not have the appropriate rights to view users.
 - Step 2** Double-click the name of an user account that you want to be able to run OS/400 jobs to display the **User Definition** dialog.
 - Step 3** Click the **Runtime Users** tab in the **User Definition** dialog.
 - Step 4** On the **Runtime Users** tab, select the check box(es) beside the name(s) of the OS/400 user(s) you want to include in this TES user's authorized user list.
 - Step 5** If you wish to restrict this user's access to specific OS/400 servers, click on the **Agents** tab and make the appropriate selections.
 - Step 6** Click **OK**.

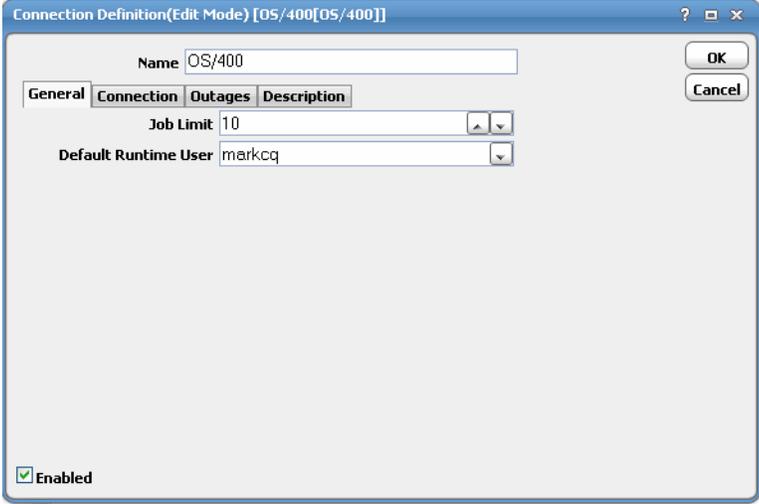
Defining an OS/400 Connection

You must create a connection to the OS/400 machine before TES can run your OS/400 jobs. These connections also must be licensed before TES can use them.

Adding an OS/400 Connection to TES

To add an OS/400 connection:

- Step 1** From the **Navigator** pane, select **Administration>Connections** to display the **Connections** pane.
- Step 2** Click the **Add** button  or right-click and select **Add Connection** from the context menu to display the **Connection Definition** dialog.



- Step 3** In the **Name** field, enter a name for your OS/400 connection.
This is the name that will be used by TES to identify your OS/400 connection. It does not have to correspond to the actual name of the OS/400 server.
- Step 4** In the **Job Limit** field, enter a number to limit how many jobs can run at once.
- Step 5** From the drop-down list of users in the **Default Runtime User** field, select the runtime user that was defined to manage the access to the OS/400 and submit jobs on behalf of other users.
This field must have the appropriate user selected in order to acquire and maintain a connection with the OS/400.
- Step 6** Click the **Connection** tab to enter information needed to create a connection to the OS/400 machine.



The screenshot shows a dialog box titled "Connection Definition (Edit Mode) [OS/400[OS/400]]". It has a standard Windows-style title bar with a question mark, maximize, and close button. The dialog contains a "Name" field with the text "OS/400". Below it are four tabs: "General", "Connection", "Outages", and "Description". The "Machine Name" field contains the placeholder text "<your IP address or machine name here>". At the bottom left, there is a checked checkbox labeled "Enabled". On the right side, there are "OK" and "Cancel" buttons.

- Step 7** In the **Machine Name** field, enter the name of the OS/400 machine.
- Step 8** Click the **Description** tab and enter a description about the OS/400 connection. This field is not required.
- Step 9** Click **OK**.

Verifying OS/400 Connection Status

If the TES master cannot connect or loses its connection to the OS/400 server, you will see a red status light next to your OS/400 connection in the **Connections** pane. The status light should be green for a healthy network connection.



Working with OS/400 Jobs

Overview

Once you have completed the configuration of the OS/400 adapter, you can create, run and monitor OS/400 jobs from TES.

Every OS/400 job that is created is assigned a unique ID number by TES. This number is called the OS/400 Job Number and is assigned as soon as TES includes an OS/400 job in the schedule. This identification number differs from the job number that OS/400 assigns to each job. The OS/400 job number is called the External ID in TES and is displayed in the **Ext ID** column of the **Job Activity** pane.

This chapter describes:

- [Creating an OS/400 Job](#)
- [File Dependencies](#)
- [Monitoring Job Activity](#)
- [Controlling Adapter and Agent Jobs](#)

Creating an OS/400 Job

When you define an OS/400 job in TES, TES creates a Submit Job command that submits the job being defined to a job queue in OS/400 to run as a batch job. Only one element of request data can be used in the new job's message queue. This request data can be a control language (CL) command if the routing entry for the job specifies a CL command processing program.



Note

A job started by the SBMJOB command uses the accounting code of the job that submits the job. The accounting code specifications in the JOBD and USRPRF parameters of the submitted job are ignored.

To create an OS/400 job:

- Step 1** From the **Navigator** pane, select **Definitions>Jobs** to display the **Jobs** pane.
- Step 2** Right-click in either the **Navigator** or **Jobs** pane and select **Add OS/400 Job** from the context menu or click the **Add** button  in the Scheduler bar to display the **Job Definition** dialog.

Job Definition [OS/400 Job]

Job Name: OS400 Job

Job Class: []

Parent Group: []

Owner: Schedulers

OS/400 | Schedule | Run | Dependencies | Resources | Job Events | Options | Run Book | Notes | History | Images

Page 1 | Page 2 | Page 3 | Page 4

Command To Run

```
CALL TEST JOBS/CL1
```

Variables

OS/400 Job Name: *JOBQ

Job Description: *USERPF

Job Queue: *JOBQ

Job Priority (on JOBQ): *JOBQ

Output Priority (on OUTQ): *JOBQ

Output Queue: *CURRENT

Library: []

Library: []

Print Device: *CURRENT

Library: []

Enabled

Last Modified: 06/30/2010 15:39:59

**Note**

The **Add OS/400 Job** option is only available after having licensed TES to run OS/400 jobs.

Step 3 In the **Job Name** field, enter a name up to 255 characters in length for your job.

The OS/400 Job Name is an identifier for Scheduler only. All of the other job definition information, such as Job Class, Owner and Parent Group, is also the same as a standard Scheduler job and is used in the same way.

If you are putting your OS/400 job into a group, note that unless the parent group selected has an OS/400 adapter connection assigned, you must clear the **Inherited** option on the **Run** tab before you can select an OS/400 connection.

Step 4 Click the **Run** tab.

Step 5 In the **Agent/Adapter Name** list, select a OS/ 400 connection.

If no OS/400 connections are available from the menu, verify that a OS/400 connection has been defined, and that you are authorized to schedule jobs on that connection.

The **Agent/Adapter Name** or **Agent List Name** is used by Scheduler to identify the OS/400 connection defined in the **OS/400 Connection Definition** dialog. It does not have to be the same as the actual OS/400 server machine name.

Alternatively, you can select a list from the **Agent List Name** list for broadcasting the job to multiple servers, for high availability and/or for load balancing.

Step 6 From the **Runtime User** list, select the OS/400 user.

This list defaults to the user specified as the default runtime user in the **OS/400 Connection Definition** dialog. The user defining the job must be authorized to use this runtime user.

Step 7 In the **Tracking** section, select how final job status is determined.

Step 8 Click the **OS/400** tab.

There are four pages of job parameters available. These parameters correspond to the parameters of the SBMJOB command which is used to submit the job.

Step 9 Fill in the appropriate parameters on the Page 1-Page 4 tabs.

- **Page 1 Tab**—Specifies the command to run and job priority and queue information.
- **Page 2 Tab**—Specifies user profile, routing, and printing information.
- **Page 3 Tab**—Specifies system library and message logging information.
- **Page 4 Tab**—Specifies message queue, sorting, language, country, and other information.

See the following sections for a description of the parameters on these tabs.

Step 10 Click **OK**.

Page 1 Tab

The screenshot shows the 'Job Definition [OS400 Job]' dialog box with the 'Page 1' tab selected. The 'Command To Run' field contains the text 'CALL TEST JOBS/CL1'. Below this, there are several dropdown menus for configuration: 'OS/400 Job Name' (set to *JOB), 'Job Description' (*USRPRF), 'Job Queue' (*JOB), 'Job Priority (on JOBQ)' (*JOB), 'Output Priority (on OUTQ)' (*JOB), and 'Output Queue' (*CURRENT). To the right, there are 'Library' and 'Print Device' fields, with 'Print Device' set to *CURRENT. At the bottom left, the 'Enabled' checkbox is checked. At the bottom right, the 'Last Modified' timestamp is '06/30/2010 15:39:59'.

The **Page 1** tab contains the following elements:

- **Command to Run** – Specify the OS/400 command or program to run. Examples of commands would be CALL MYPROG or DSPTAP DEV(TAP01). You can run an OS/400 job with just the command as entered or use any of the fields provided on the page tabs to modify parameters. If no modifications are made to the defaults in the various fields, TES ignores the values in the fields. This field can contain a maximum of 20,000 characters.
- **Variables** – This button displays a context menu of variables categorized according to job, system, public or specific to a remote master that can be used with the command. There could be several remote masters with their own variables.

- **OS/400 Job Name** – Specify the job name associated with the submitted job as it is processed. You must provide a name in this field or the job cannot run correctly. From the drop-down list, you can select one of the listed job names or select the following option:
 - ***JOB** – Uses the name of the job description used with this job as the name of the job itself.
- **Job Description** – Specifies the job description used to submit the job for batch processing. The job description is specified in the user profile that the submitted job runs under. From the drop-down list, you can select one of the listed job queues or select the following option:
 - ***USRPRF** – Specifies that the job should use the job description specified in the user profile that the job is running under.
- **Library** – Specifies the library to be used when searching for the job description name. From the drop-down list, you can select one of the listed libraries or select one of the following options:
 - ***LIBL** – All libraries in the job's list of libraries is searched until the first match is found.
 - ***CURLIB** – Only the job's current library is searched for a match. If no current library is specified for the job than the QGPL library is used.
- **Job Queue** – Specifies the qualified name of the job queue where the submitted job is placed. From the drop-down list, you can select one of the listed job queues or select the following option:
 - ***JOB** – Specifies that the job should use the job queue specified in the job description.
- **Library** – Specifies the library to be used when searching for the job queue name. From the drop-down list, you can select one of the listed libraries or select one of the following options:
 - ***LIBL** – All libraries in the job's list of libraries is searched until the first match is found.
 - ***CURLIB** – Only the job's current library is searched for a match. If no current library is specified for the job than the QGPL library is used.
- **Job Priority (on JOBQP)** – Specifies the scheduling priority for the job being submitted. Value options ranging from one to nine, with one as the highest priority and nine as the lowest priority.
- **Output Priority (on OUTQ)** – Specifies the output priority for the spooled files from the job being submitted. Value options ranging from one to nine, with one as the highest priority and nine as the lowest priority.
- **Print Device** – Specifies the device to print the job output from the job being submitted. From the drop-down list, you can select one of the listed print devices or select one of the following options:
 - ***CURRENT** – Selects the same print device used by the submitting job.
 - ***USRPRF** – Selects the same print device specified in the user profile that the job is running under.
 - ***DEV** – Selects the same print device specified in the **PRTDEV** parameter.
 - ***JOB** – Selects the same print device specified in the job description.
- **Output Queue** – Specifies the qualified name of the output queue for spooled files that specify OUTQ(*JOB). This will be used as the default output queue by the submitted job. This parameter only applies to printer files with *JOB specified on the **OUTQ** parameter. From the drop-down list, you can select one of the listed output queues or select one of the following options:
 - ***CURRENT** – Selects the same output queue used by the submitting job.
 - ***USRPRF** – Selects the same output queue specified in the user profile that the job is running under. The user profile is specified on the **USER** parameter.
 - ***DEV** – Selects the output queue specified by the **PRTDEV** parameter.
 - ***JOB** – Selects the output queue specified in the job description.

- **Library** – Specifies the library to be used when searching for the name of the output queue. From the drop-down list, you can select one of the listed libraries or select one of the following options:
 - ***LIBL** – All libraries in the job's list of libraries is searched until the first match is found.
 - ***CURLIB** – Only the job's current library is searched for a match. If no current library is specified for the job than the QGPL library is used.

Page 2 Tab

The **Page 2** tab contains the following elements:

- **User** – Specifies the name of the user profile that the job runs under. This user must be authorized to use the user profile and the job description that are assigned to the job.



Note The user must match the runtime user on the job in order to be able to gather the job output from the Spool subsystem.

From the drop-down list, you can select one of the listed users or select one of the following option:

- ***CURRENT** – Uses the user profile that is currently being used.
- ***JOBID** – Uses the user profile specified in the job description.
- **Print Text** – Specifies a text string to be printed at the bottom of each page of job output. A maximum of 30 characters of text can be printed. The text string must be enclosed in single quotes (' '). From the drop-down list, you can enter your own text to print or select one of the following options:
 - ***CURRENT** – Prints the same print text used by the submitting job.
 - ***JOBID** – Prints the same print text specified in the job description.
 - ***SYSVAL** – Prints the system value (QPRTTXT)

- ***BLANK** – No text will be printed at the bottom of each tab.
- **Routing Data** – Specifies a character string of routing data that is used with the job description to start the job. The routing data determines the routing entry (in the subsystem description) identifying the program that runs the job. A maximum of 80 characters can be used. The character string must be enclosed in single quotes ('). You can enter your own routing data character string or use one of the following options:
 - ***QCMDB** – Uses the same routing data used by IBM's QBATCH subsystem to route batch jobs to the QCMD language processor.
 - ***JOBDD** – Uses the routing data specified in the job description.
 - ***RQSDTA** – Uses up to 80 characters of the request data specified in the **RQSDTA** parameter.
- **Request Data or Command** – If using request data, specifies the character string that is placed in the last entry of the submitted job's message queue. A maximum of 3,000 characters can be used. The character string must be enclosed in single quotes ('). For example, if RTGDTA (QCMDB) is specified, the IBM-supplied batch subsystem, QBATCH, is used. If a CL command is used, it becomes a message read by the control language processor, QCMD.



Note If a CL command is used, it must be enclosed in single quotes (') and where single quotes would be used inside the command, double quotes (" ") must be used.

If using a command, specifies the command that runs in the submitted job. The IBM-supplied default routing program QCMD must be used when the job is started or the job cannot run. Since the specified command is used as the request data, any value specified in the RQSDTA parameter in the job description is ignored. A maximum of 2,000 characters can be used in the command.

Page 3 Tab

Job Definition [05400 Job]

Job Name OS400 Job

Job Class

Parent Group

Owner Schedulers

OK Cancel

OS/400 Schedule Run Dependencies Resources Job Events Options Run Book Notes History Images

Page 1 Page 2 Page 3 Page 4

System Library List *CURRENT

Current Library *CURRENT

Initial Library List *CURRENT

Message Logging

Level *JOBDD Severity *JOBDD Text *JOBDD

Log CL Program Commands *YES

Inquiry Message Reply *JOBDD

Hold On Job Queue *JOBDD

Job Switches *JOBDD

Allow Display by WRKSBMJOB *YES

Enabled

Last Modified 06/30/2010 15:39:59

The **Page 3** tab contains the following elements:

- **System Library List** – Specifies the system portion of the library to be used by the submitted job. From the drop-down list, you can specify your own system library or select the following default options:
 - ***CURRENT** – Specifies the current system library be used by the submitting job.
 - ***SYSVAL** – Specifies the library list designated in the system value (QSYSLIBL) at the time the job is started.
- **Current Library** – Specifies the name of the library to be used as the current library for jobs initiated by this user profile. From the drop-down list, you can specify a current library or select the following options:
 - ***CURRENT** – Specifies that the current system library be used by the submitting job.
 - ***USRPRF** – Specifies that the library list designated in the user profile that the job runs under be used. (The user profile is specified on the USER parameter.)
 - ***CRTDFT** – Does not specify any current library for the submitted job. If objects are created in the current library, the QGPL library is used as the default current library.
- **Initial Library List** – Specifies the user portion of the first library list used by the submitted job, search for any object names that are not specified with a library qualifier. The system portion of the library list is not included in this parameter. The maximum number of libraries allowed in the list is 250. The libraries are searched in the same order that they are listed. No duplicates of a library are allowed in this library list. From the drop-down list, you can specify your own initial library list or select the following options:
 - ***CURRENT** – Specifies that the same user portion of the library list being used by the current job also be used for the submitted job.
 - ***JOB** – Specifies that the same library list specified in the job description be used as the first library list by the submitted job.
 - ***SYSVAL** – Specifies that the job use the system default library list (QUSRLIBL).
 - ***NONE** – The user portion of the first library list is empty so only the system portion of the library list is used.

Message Logging Section

The amount and type of logging for messages generated by the submitted job is configured in this section. Three different components of logging comprise this parameter: Level, Severity and Text. If no values are specified, then the default is to use the values specified in the job description assigned to the submitted job.

- **Level** – Specifies a value ranging from zero to four to designate the logging level for the messages from the submitted job with zero as the highest level and four as the lowest level. From the drop-down list, you can specify your own logging level or select the following option:
 - ***JOB** – Specifies that the same logging level specified in the job description be used by the submitted job.
- **Severity** – Specifies a value ranging from 00 to 99 that is used in conjunction with the logging level to determine which error messages are logged. From the drop-down list, you can specify your own message severity or select the following option:
 - ***JOB** – Specifies that the same severity value specified in the job description be used by the submitted job.

- **Text** – Specifies what is included in the error message text recorded in the job log. From the drop-down list, select one of the following options:
 - ***JOB** – Specifies that the same message text value specified in the job description be used by the submitted job.
 - ***MSG** – Specifies that only the message text is recorded in the job log.
 - ***SECLVL** – Specifies that both the message text and the cause and recovery of the error message are written to the job log.
 - ***NOLIST** – Specifies that no job log is recorded if the job ends normally. A job log is created only if the job ends abnormally (job end code of 20 or higher). These job messages include both the message text and the cause and recovery.
- **Log CL Program Commands** – Specifies whether jobs in a control language (CL) should be logged to the job log from the CL program's message queue. From the drop-down list, select one of the following options:
 - ***JOB** – Specifies that the same logging value for CL programs specified in the job description should be used by the submitted job.
 - ***NO** – Specifies that commands in a CL program should not be logged to the job log.
 - ***YES** – Specifies that commands in a CL program should be logged to the job log, if the LOG (*JOB) value is specified in the Create CL Program (CRTCLPGM) command.
- **Inquiry Message Reply** – Specifies how predefined messages sent as a result of running this job are answered. From the drop-down list, select one of the following options:
 - ***JOB** – Specifies that the same inquiry message reply control specified in the job description be used by the submitted job.
 - ***RQD** – Specifies that a reply must be sent by the receiver of any inquiry message generated when this command runs.
 - ***DFT** – Specifies a default reply to any inquiry message. If no default reply is specified in the message description of the inquiry message, the system default *N is used.
 - ***SYSRPYL** – Specifies that the system list of defined reply messages be checked for a corresponding match to the inquiry message. If a match is made for the inquiry message, the designated reply is sent. If no match can be made, a reply message is required.
- **Hold On Job Queue** – Specifies whether jobs using this job description are inserted into the job queue in the hold condition. Any job placed in the job queue in hold condition is held until it is either released by the Release Job (**RLSJOB**) command or canceled by the End Job (**ENDJOB**) or Clear Job Queue (**CLRJOBQ**) command. If the job does not run before the next power-down of the system, the job queue can be cleared (and the job ended) when the next initial program load (IPL) is done. From the drop-down list, you can select one of the following options:
 - ***JOB** – Specifies that the same hold value specified in the job description be used by the submitted job.
 - ***NO** – Specifies that the job is not on hold when it is inserted into the job queue.
 - ***YES** – Specifies that the job is placed on hold when inserted into the job queue until it is released by a Release Job (**RLSJOB**) command or ended by an End Job (**ENDJOB**) command.
- **Job Switches** – Specifies a combination of eight 0's (off) and 1's (on) to be used as the first switch setting for the submitted job. These switches can be set or tested in a CL program and used to control the flow of the program. For example, if a certain switch is on, another program can be called. These job switches may also be valid in other high-level language programs. From the drop-down list, you can specify your own job switch or select the following option:

- ***JOB** – Specifies that the same inquiry message reply control specified in the job description be used by the submitted job.
- **Allow Display by WRKSBMJOB** – Specifies whether the submitted job can be shown on the Submitted Jobs Display. Any submitted job that is the same type specified by the **SBMFROM** parameter of the **WORK** with Submit Job (**WRKSBMJOB** command) can be shown with this parameter. From the drop-down list, select one of the following options:
 - ***YES** – Specifies that the job can be shown on the Submitted Jobs Display by using the **WRKSBMJOB** command.
 - ***NO** – Specifies that the job cannot be shown on the Submitted Jobs Display with the **WRKSBMJOB** command.

Page 4 Tab

The screenshot shows the 'Job Definition [OS400 Job]' dialog box with the 'Page 4' tab selected. The 'Page 4' tab contains the following elements:

- Message Queue: *USRPRF
- Sort Sequence: *CURRENT
- Language ID: *CURRENT
- Country/Region ID: *CURRENT
- Coded Character Set ID: *CURRENT
- Job Msg Queue: Max size: *JOB
- Copy Environment Variables: *YES
- Allow Multiple Threads: *JOB
- Initial ASP Group: *CURRENT
- Spooled File Action: *CURRENT
- Library: (empty)
- Library: (empty)
- Submitted For: *CURRENT
- User: (empty)
- Number: (empty)
- Full Action: *JOB

At the bottom left, there is a checkbox labeled 'Enabled' which is checked. At the bottom right, it says 'Last Modified 06/30/2010 15:39:59'.

The **Page 4** tab contains the following elements:

- **Message Queue** – Specifies the qualified name of the message queue that messages are sent to. If the job ends abnormally, the completion message lists possible reasons why the job did not complete properly. From the drop-down list, you can specify a message queue or select one of the following options:
 - ***USRPRF** – Specifies that the message queue designated in the user profile that the job runs under be used.
 - ***WRKSTN** – Specifies that a completion message is sent to the work station message queue of the work station that submitted the job. If the job is submitted by a batch job, no completion message is sent.
 - ***NONE** – Specifies that no completion message is sent.

- **Library** – Specifies the library to be used when searching for the name of the message queue. From the drop-down list, you can select one of the listed libraries or select one of the following options:
 - ***LIBL** – All libraries in the job's library list are searched until the first match is found.
 - ***CURLIB** – Only the job's current library is searched for a match. If no current library is specified for the job than the QGPL library is used.
- **Sort Sequence** – Specifies the name of the sort sequence table to be used with the submitted job. From the drop-down list, you can select one of the listed sort tables or select one of the following options:
 - ***CURRENT** – Specifies the current sort table be used by the submitting job.
 - ***SYSVAL** – Specifies that the system value (**QSRTSEQ**) be used by the submitted job.
 - ***USRPRF** – Specifies that the sort table designated in the user profile that the job runs under be used. (The user profile is specified on the **USER** parameter.)
- **Library** – Specifies the library to be used when searching for the sort sequence table. From the drop-down list, you can select one of the listed libraries or select one of the following options:
 - ***LIBL** – All libraries in the job's library list are searched until the first match is found.
 - ***CURLIB** – Only the job's current library is searched for a match. If no current library is specified for the job than the QGPL library is used.
- **Language ID** – Specifies the language identifier to be associated with this job. The language identifier is used whenever the ***LANGIDUNQ** or ***LANGIDSHR** option is selected in the sort sequence field. If the job CCSID is 65535, this parameter is also used to determine the value of the job default **CCSID (DFTCCSID)**. From the drop-down list, you can select one of the listed language identifiers:
 - ***CURRENT** – Specifies the current sort table be used by the submitting job.
 - ***SYSVAL** – Specifies that the system value (**QSRTSEQ**) be used by the submitted job.
 - ***USRPRF** – Specifies that the sort table designated in the user profile that the job runs under be used. (The user profile is specified on the **USER** parameter.)
- **Submitted For** – Specifies the job name to be used on the **SBMFROM** parameter of the **WRKSBMJOB** command. (You must have ***JOBCTL** authority to use this parameter.) From the drop-down list, you can select one of the listed job names or the following option:
 - ***CURRENT** – Specifies that the name of the currently active job be used by the submitting job.
- **User** – Specifies the user profile to be used on the **SBMFROM** parameter of the **WRKSBMJOB** command. This user for the submitted job must have the appropriate authorities listed in the [Prerequisites](#). Associated with the **Submitted For** field.
- **Number** – Specifies the job number to be used on the **SBMFROM** parameter of the **WRKSBMJOB** command. (You must have ***JOBCTL** authority to use this parameter.) Associated with the **Submitted For** field.
- **Country/Region ID** – Specifies the country or region identifier to be used with this job. From the drop-down list, you can select one of the following options:
 - ***CURRENT** – Specifies the current sort table to be used by the submitting job.
 - ***SYSVAL** – Specifies that the system value (**QSRTSEQ**) be used by the submitted job.
 - ***USRPRF** – Specifies that the sort table designated in the user profile that the job runs under be used. (The user profile is specified on the **USER** parameter.)

- **Coded Character Set ID** – Specifies the coded character set identifier (CCSID) to be used with this job. The CCSID is a 16-bit number identifying a specific set of encoding scheme identifiers, character set identifiers, code page identifiers and additional coding-related information that uniquely identifies the coded graphic representation used. From the drop-down list, you can select one of the following options:
 - ***CURRENT** – Specifies the CCSID to be used by this job.
 - ***USRPRF** – Specifies that the CCSID designated in the user profile that the job runs under be used. (The user profile is specified on the **USER** parameter.)
 - ***SYSVAL** – Specifies that the system value (**QCCSID**) be used by the submitted job when it starts.
 - ***HEX** – Specifies that the CCSID 65535 is used by this job.
- **Job Msg Queue: Maximum Size** – Specifies the maximum size of the job message queue ranging from 2 to 64 megabytes. From the drop-down list, you can select one of the listed sizes or one of the following options:
 - ***JOBQ** – Specifies that the same value designated in the job description be used by the submitting job.
 - ***SYSVAL** – Specifies that the system value (**QJOBMSGQMX**) at the time the job starts be used by the submitted job.
- **Full Action** – Specifies the action to be taken when the job message queue becomes full. From the drop-down list, select one of the following options:
 - ***JOBQ** – Specifies that the same value designated in the job description be used by the submitting job.
 - ***SYSVAL** – Specifies that the system value (**QJOBMSGQMX**) at the time the job starts be used by the submitted job.
 - ***NOWRAP** – Specifies that the message queue does not wrap (return to the beginning of the queue and overwrite existing messages) when full. When the message queue becomes full, the job will end abnormally.
 - ***WRAP** – Specifies that when the message queue is full that messages should return to the head of the queue and overwrite the oldest messages.
 - ***PRTWRAP** – Specifies that the message queue should wrap when it is full but that the messages that are being overwritten be printed.
- **Copy Environment Variables** – Specifies whether the environment variables from the submitting job are copied to the new job. From the drop-down list, select one of the following options:
 - ***NO** – Specifies that the environment variables from the submitting job are not copied to the new job.
 - ***YES** – Specifies that the environment variables from the submitting job are copied to the new job.
- **Allow Multiple Threads** – Specifies whether the job can run with multiple user threads. This attribute does not prevent the operating system from creating system threads in the job. This attribute cannot be changed after the job is submitted. From the drop-down list, you can select one of the following options:
 - ***JOBQ** – Specifies that the same value designated in the job description be used by the submitting job.
 - ***NO** – Specifies that the job cannot run with multiple job threads.
 - ***YES** – Specifies that the job can run with multiple job threads.

- **Initial ASP Group** – Specifies the name of the auxiliary storage pool (ASP) group for the initial thread of the submitted job. The ASP group name is the name of the primary ASP device within the ASP group. A thread can use the SET Auxiliary Storage Pool Group (SETASPGRP) command to change its library name space. When an ASP group is associated with a thread, all libraries in the independent ASPs in the ASP group are accessible and objects in those libraries can be referenced using regular library-qualified object name syntax. The library name space for the thread is comprised of libraries in the independent ASPs in the specified ASP group plus the libraries in the system ASP (ASP number 1) and basic user ASPs (ASP numbers 2-32). From the drop-down list, you can specify an initial ASP group or select one of the following options:
 - ***CURRENT** – Specifies that the ASP group name for the current thread be used by the submitting job.
 - ***JOBID** – Specifies that the same initial ASP group name used in the job description be used by the submitted job.
 - ***NONE** – Specifies that the initial thread of the submitted job should start without a designated ASP group. The library name space will not include libraries from any ASP group. Only the libraries in the system ASP and any basic user ASPs are in the library name space.
- **Spoiled File Action** – Specifies whether spooled files are kept with jobs so they can be accessed through job interfaces after the job ends. Keeping spooled files with jobs allows job commands such as **Work with Submitted Jobs (WRKSBMJOB)** to work with the spooled files after the job ends. Separating spooled files from jobs reduces the use of system resources by allowing job structures to be recycled when the jobs end. From the drop-down list, you can select one of the following options:
 - ***CURRENT** – Specifies that the current value be used by the submitting job.
 - ***JOBID** – Specifies that the same value in the job description be used by the submitted job.
 - ***SYSVAL** – Specifies that the system value for the spooled file action (**QSPLFACN**) be used by the submitted job.
 - ***KEEP** – Specifies that when the job ends, the spooled files are kept with the job and that the status of the job is updated to indicate that the job has completed.
 - ***DETACH** – Specifies that when the job ends, the spooled files are detached from the job and the job is removed from the system.

File Dependencies

The file dependency function for OS/400 agents supports all conditions (**EXISTS**, **SIZE**, etc...) for files under the Integrated File System and File Type Objects in the library (QSYS File System).

The following are examples of the format required for each file system:

- Integrated File System
/dir1/dir2/file1
- QSYS File System
/QSYS.LIB/<library>.LIB/<file>.FILE/<member>.MBR

where **<library>**, **<file>** and **<member>** are replaced with the appropriate values.

Monitoring Job Activity

The parameters of OS/400 jobs are defined within the OS/400 environment but the scheduling of these jobs is controlled by Scheduler. Jobs are launched on a concurrent request by concurrent request basis. Scheduler watches for the completion of each concurrent request and any other change in the status of the concurrent request. Once the process completes, Scheduler determines the completion status and can return the output and log of the process. The status of a Scheduler OS/400 job with multiple concurrent requests is determined by the concurrent request that completed last.

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"> For Apache 1.1.2, add: jarlib=apache1.1.2 For Cloudera 3, add: jarlib=cloudera For Cloudera 4, add: jarlib=cdh4 For MapR add: jarlib=apache1.1.2
kerbrealm	MapReduce	<none>	If the Hadoop cluster is Kerberos secured, use this value to specify the Kerberos Realm. For example, kerbrealm=TIDALSOFT.LOCAL
kerbkdc	MapReduce	<none>	If the Hadoop cluster is Kerberos secured, use this value to specify the KDC Server. For example, kerbkdc=172.25.6.112

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.