

Workload Scheduler  
Version 8.6

*Plug-In for Informatica PowerCenter  
User's Guide*





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**Note**

Before using this information and the product it supports, read the information in Notices.

This edition applies to version 8, release 6 of IBM Tivoli Workload Scheduler for Applications (program number 5698-WSE) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Chapter 1. Overview

The Tivoli Workload Scheduler Plug-in for Informatica PowerCenter enables you to schedule Informatica PowerCenter workflows and to track their outcomes from the Dynamic Workload Console and from the Tivoli Workload Scheduler command line.

You can define, run, and manage these jobs both in a distributed and in a z/OS® environment, by selecting the appropriate Tivoli Workload Scheduler or Tivoli Workload Scheduler for z/OS engine in the Dynamic Workload Console.

In Tivoli Workload Scheduler environments, the plug-in jobs run on dynamic agents. In Tivoli Workload Scheduler for z/OS environments, the plug-in jobs run on Tivoli Workload Scheduler for z/OS Agents. In both environments the agent running the jobs, where a portion of the plug-in is installed, must have a working connection with the Informatica Web Services Hub.



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## Chapter 2. Software requirements

You can run the Tivoli Workload Scheduler plug-in for Informatica PowerCenter both in a distributed and in a z/OS environment. You must install the Tivoli Workload Automation product appropriate for your environment, and Informatica PowerCenter version 9.1.0 HotFix 3.

**Distributed** To define, run, and manage job types with advanced options for Informatica PowerCenter, install:

- The Tivoli Workload Scheduler master domain manager
- A dynamic agent connected:
  - To the master domain manager
- or
- To a dynamic domain manager connected to the master domain manager.
- The dynamic agent running the plug-in must have a working connection with the Informatica PowerCenter Web Services Hub.

**z/OS** To define, run, and manage job types with advanced options for Informatica PowerCenter, install:

- The Tivoli Workload Scheduler for z/OS controller.
- A Tivoli Workload Scheduler for z/OS agent connected to:
  - The Tivoli Workload Scheduler for z/OS controller.
- or
- A dynamic domain manager connected to the Tivoli Workload Scheduler for z/OS controller.
- The Tivoli Workload Scheduler for z/OS agent running the plug-in must have a working connection with the Informatica PowerCenter Web Services Hub.

For detailed information about the Tivoli Workload Scheduler supported operating systems, see the Detailed System Requirements Document. For detailed information about the Informatica PowerCenter supported operating systems and installation requirements, see the Informatica PowerCenter documentation.



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## Chapter 3. Roles and responsibilities

In a typical enterprise, different users contribute to the implementation and operation of the product. Table 1 describes the roles and responsibilities of all actors in the process model, showing the tasks they perform.

*Table 1. Roles and responsibilities in Tivoli Workload Scheduler for Informatica PowerCenter*

User role	User task
Informatica PowerCenter administrator	Performing the installation of the Informatica PowerCenter Server.
Informatica PowerCenter developer	Creating the Informatica PowerCenter workflows.
Informatica PowerCenter configurator	Chapter 8, "Customizing the job executor properties file," on page 23
Tivoli Workload Scheduler IT administrator	Performing the installation of the Tivoli Workload Scheduler environment.
Tivoli Workload Scheduler job scheduler	Chapter 6, "Defining jobs on the Dynamic Workload Console," on page 15
Tivoli Workload Scheduler scheduling operator	Chapter 10, "Checking job results," on page 27



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## Chapter 4. Installing the plug-in

This section describes how to use the Tivoli Workload Scheduler for Additional Plug-ins installer to install the plug-in for Informatica PowerCenter.

Tivoli Workload Scheduler for Additional Plug-ins is an installation process included in the Tivoli Workload Scheduler DVD or eImages that you use to install additional plug-ins developed by you or provided separately.

---

### Before installing

Before you install the plug-in, ensure that the following conditions are satisfied:

- You have the following permissions to run the installation:
  - Windows operating systems:**  
Administrator
  - UNIX and Linux operating systems:**  
root
- The installation process is not already running on the workstation. You can verify it by checking that the **setup** process is not running.

---

### Structure of the installation DVD or eImage

This section describes the file structure you will find in the plug-in installation media.

The installation files for the plug-in for Informatica PowerCenter are structured as follows:

```
Aix
|__ PLUGIN_INSTALLER
|__ PLUGIN
|__ RESPONSE_FILE
|__ setup.sh
HP
|__ PLUGIN_INSTALLER
|__ PLUGIN
|__ RESPONSE_FILE
|__ setup.sh
HPIA64
|__ PLUGIN_INSTALLER
|__ PLUGIN
|__ RESPONSE_FILE
|__ setup.sh
Windows
|__ PLUGIN_INSTALLER
|__ PLUGIN
|__ RESPONSE_FILE
|__ setup.bat
Linux
|__ PLUGIN_INSTALLER
|__ PLUGIN
|__ RESPONSE_FILE
|__ setup.sh
LinuxPPC
|__ PLUGIN_INSTALLER
|__ PLUGIN
|__ RESPONSE_FILE
|__ setup.sh
```

```

zLinux
|__ PLUGIN_INSTALLER
|__ PLUGIN
|__ RESPONSE_FILE
|__ setup.sh
Solaris
|__ PLUGIN_INSTALLER
|__ PLUGIN
|__ RESPONSE_FILE
|__ setup.sh
Solaris_I386
|__ PLUGIN_INSTALLER
|__ PLUGIN
|__ RESPONSE_FILE
|__ setup.sh

```

where, for each operating system, the `setup` command starts the installation process of the plug-in.

---

## Choosing the installation method

Use one of the following methods to install the plug-in:

### Installation wizard

Install the plug-in by running the setup file provided for each supported operating system and providing the information requested in the installation wizard.

### Silent installation

Customize a *response file* by adding all the configuration settings to be used during installation. Then, from the command line, run the setup command with the `silent` option. With this procedure, you can run the installation unattended and in the background.

**Note:** Following installation, to successfully use the plug-in, you must first restart WebSphere Application Server and the Tivoli Workload Scheduler agent.

---

## Using the installation wizard

To install the plug-in from the installation wizard, do the following steps:

1. In the DVD or eImage, go to the directory named after the operating system where you are installing, and run the **setup** installation command to start the installation.
2. Select the language in which the wizard is to be displayed, and click **OK**. The Welcome panel is displayed.
3. Read the welcome information and click **Next**. The Choose operation panel is displayed.
4. Select the *Install* radio button and click **Next**. The plug-in details panel is displayed.
5. Select the Tivoli Workload Scheduler instance on your workstation where the plug-in is to be installed.  
If the installation program does not detect a Tivoli Workload Scheduler instance, it does not start the installation process.
6. Review the plug-in details, and click **Next**. The plug-in Software License Agreement panel is displayed.

7. Read the plug-in Software License Agreement information and select the radio button to accept the license agreement. Click **Next**. A summary information panel is displayed.
8. Review the summary details and click **Next**. The installation process begins; the progress panel is displayed showing the status.

If you received error messages, analyze the installation log files shown in the table Table 3 on page 10.

---

## Using the silent installation process

A silent installation runs according to the parameters set in a response file. The response file includes all the installation information required to run the installation without user intervention.

To install the plug-in with the silent installation process, you are provided with the corresponding response file that you need to customize with your preferences. The file is located in the *operating\_system/RESPONSE\_FILE* folder in the installation DVD or eImage.

When running the installation in silent mode, no messages are displayed. The messages are written in the silent installation log files listed in “Installation results and log files” on page 10. If the silent installation fails, you can verify the messages written in the log files, by checking them in the *Tivoli® Workload Scheduler: Planning and Installation Guide*.

To run the silent installation, do the following:

1. Customize the response file to include the options required to complete the installation. For a list of these options, see Table 2 on page 10.

The response file must be accessible from the workstation where you want to run the installation. Entries in the response file are in the format *option=value*. Each entry must be written on a separate line.

2. From the installation DVD or eImage run the **setup** command, located in the *operating\_system* folder:

**On UNIX and Linux operating systems:**

```
./setup.sh -i silent -f response_file
```

**On Windows operating systems:**

```
setup.bat -i silent -f response_file
```

Where:

**-i silent**

Specifies that the installation is run unattended, driven by a response file.

**-f response\_file**

Indicates the fully qualified path to the response file that contains the installation options. *response\_file* can be any text file with the name and extension you choose.

The actions performed by the silent installation process are described in section “Installation results and log files” on page 10.

Table 2 on page 10 lists the options you can specify to drive the installation.

Table 2. Options to perform a silent installation

Option	Required	Description	Value
USER_INSTALL_DIR=<path>	Yes	Specify the Tivoli Workload Scheduler installation path where you want to install the plug-in.	A fully qualified path. For example, to install the product under c:\program Files\IBM\TWA86, specify: USER_INSTALL_DIR="c:\program Files\IBM\TWA86"  <b>On Windows operating systems:</b> The default path is "c:\\Program Files\\IBM\\TWA"  <b>On UNIX and Linux operating systems:</b> The default path is /opt/IBM/TWA
TWSAPPS_PLUGIN_FILE_NAME=<zip-filename>	Yes	Specify the fully qualified path to the zip file that contains the plug-in.	The fully qualified path to file com.ibm.scheduling.agent.powercenter_8.6.0.00.zip on the DVD or eImage.
LICENSE_ACCEPTED=<value>	Yes	Specify the boolean value to accept the license agreement for the plug-in.	The value must be set to TRUE.
ACTION_TYPE=<value>	Yes	Specify the action that installation process performs on plug-in. In this case the value must be set to DEPLOY.	The value must be set to DEPLOY.

## Installation results and log files

This section lists the names of the installation logs files.

The installation process completes the following actions (in the next sections the *TWS\_home* notation stands for the Tivoli Workload Scheduler installation path):

- On the master domain manager,
  - Copies file powercenter\_1.0.0.jar in path *TWS\_home*\applicationJobPlugin (/applicationJobPlugin).
  - Creates in *TWS\_home*\installDataPlugin (/installDataPlugin) a directory containing file plugin\_powercenter.xml.
- On the dynamic agent(s):
  - Copies file powercenter\_1.0.0.jar in path *TWS\_home*\JavaExt\eclipse\plugins (/JavaExt/eclipse/plugins).
  - Updates file config.ini in path *TWS\_home*\JavaExt\eclipse\configuration (/JavaExt/eclipse/configuration), adding the string  
com.ibm.scheduling.agent.powercenter@4:start  
  
to the osgi.bundles key.
  - Creates the PowerCenterJobExecutor.properties file in path *TWS\_home*\JavaExt\cfg (/JavaExt/cfg). This file is empty and you must configure it later.
  - Creates in *TWS\_home*\installDataPlugin (/installDataPlugin) a directory containing file plugin\_powercenter.xml.

If error messages were issued, analyze the following installation log files:

Table 3. Installation log files

Log file name	Content	Directory
twS4plugins_ia_install.log	Log file for InstallAnywhere errors.	<i>TWS_home</i> \logs

Table 3. Installation log files (continued)

Log file name	Content	Directory
tws4plugins_install.log	Plug-in installation log file.	<p>At the start of the installation process this log file is created in the following directory:</p> <p><b>On Windows operating systems:</b> %TEMP%\TWA\tws4apps</p> <p><b>On UNIX and Linux operating systems:</b> \$tmp\TWA\tws4apps</p> <p>and copied to directory <i>TWS_home</i>\logs at the end of the installation process.</p>
tws4plugins_status.log	<p>This log file is created only for silent installations (it is created also for non-silent installations but, except for a header, the file is empty). It reports if the installation completed successfully or with errors. In case of errors it indicates if they were issued because of an incorrect field value or a failed step.</p>	<p>At the start of the installation process this log file is created in the following directory:</p> <p><b>On Windows operating systems:</b> %TEMP%\TWA\tws4apps</p> <p><b>On UNIX and Linux operating systems:</b> \$tmp\TWA\tws4apps</p> <p>and copied to the directory <i>TWS_home</i>\logs at the end of the installation process.</p>

**Note:** If you are installing in silent mode and you need to see the logs files, check before the `tws4plugins_status.log` file to verify the installation process status and then check the `tws4plugins_install.log` file for details.



---

## Chapter 5. Configuring for SSL

If the Informatica WebServices Hub is enabled to the SSL protocol, you must change configuration options on the agent where you installed the plug-in.

If `IsSSLEnabled=true` in the `PowerCenterJobExecutor.properties` properties file, you must also change the `JVMOption` key in file `JobManager.ini` located in directory `TWS_home/ITA/cpa/config (\ITA\cpa\config)` on the agent. In this case, `JVMOption` should contain the following:

```
-Djava.protocol.handler.pkgs=com.sun.net.ssl.internal.www.protocol  
-Djavax.net.ssl.trustStore=keystore_pathfile_name
```

where *keystore\_pathfile\_name* is the path and the filename of the truststore used to access the protected web services hub. For example:

```
-Djavax.net.ssl.trustStore=/opt/ibm/TWA/ssl/wsh.keystore
```



---

## Chapter 6. Defining jobs on the Dynamic Workload Console

After the plug-in is installed, a new job type named PowerCenter is added on the Dynamic Workload Console.

**Distributed** To define a job of type PowerCenter in the Dynamic Workload Console:

1. Select **Workload>Design>Create Workload Definitions**.
2. Select a distributed engine.
3. Select **New>Job Definition>Business Analytics>PowerCenter**.  
The Properties panel for the new job is displayed.
4. In the **General** tab, enter:
  - The name of the job definition.
  - The name of the workstation on which the job runs.
  - A return code mapping expression.
  - A description of the job.
5. In the **Affinity** tab, define the affinity relationship with other jobs, if it exists.
6. In the **Recovery options** tab, specify the recovery options to be followed if the job abends.
7. In the **PowerCenter** tab, specify the following information to define the options related to the PowerCenter workflow that you want the job to run:

### Credentials

Use this section to define the credentials necessary to run the workflow.

#### User Name

The name used to access the repository. You can leave blank if a valid value is provided in the `PowerCenterJobExecutor.properties` file.

#### Password

The password used to access the repository. You can leave blank if a valid value is provided in the `PowerCenterJobExecutor.properties` file.

#### Repository Domain

The domain where the repository is located. Alternatively, a valid value provided in the `PowerCenterJobExecutor.properties` file. This field is optional.

#### Service Domain

The domain where the Integration Service is located. Alternatively, a valid value provided in the `PowerCenterJobExecutor.properties` file. This field is optional.

### Repository Name

The repository where the workflow is located. Click the **Repository List** tab to get a list of selectable repositories.

### Workflow information

Use this section to identify the workflow that you want the job to run.

### Service Name

The integration service used to run the workflow. Click the **Service List** tab to get a list of selectable integration services.

### Folder Name

The folder in the repository that you selected where the workflow is located. Click the **Folder List** tab to get a list of selectable folders.

### Workflow Name

The name of the workflow that you want to run. Click the **Workflow List** tab to get a list of selectable workflows located in the folder that you indicated in the previous field.

### Workflow Parameter File

The full path and name of the parameters file, stored on the Informatica PowerCenter server, that contains a list of parameters to be passed to the workflow when its run is issued. You can find instructions to write and use parameters files in the Informatica PowerCenter documentation guides.

## **z/OS** To define a job of type PowerCenter in the Dynamic Workload Console:

1. Select **Workload>Design>Create Workload Definitions**.
2. Select a z/OS engine.
3. Select **New>Business Analytics>PowerCenter**.  
The Properties panel for the new job is displayed.
4. In the **General** tab, enter:
  - The name of the partitioned dataset where you want to create the JCL.
  - The name of the JCL that you want to create in the partitioned dataset.
  - The workstation that you want to be the target of the action buttons on the job-specific tab. The value is not saved.
5. In the **PowerCenter** tab, specify the following information to define the options related to the PowerCenter workflow that you want the job to run:

### Credentials

Use this section to define the credentials necessary to run the workflow.

### User Name

The name used to access the repository. You can leave blank if a valid value is provided in the `PowerCenterJobExecutor.properties` file.

**Password**

The password used to access the repository. You can leave blank if a valid value is provided in the `PowerCenterJobExecutor.properties` properties file.

**Repository Domain**

The domain where the repository is located. Alternatively, a valid value provided in the `PowerCenterJobExecutor.properties` properties file. This field is optional.

**Service Domain**

The domain where the Integration Service is located. Alternatively, a valid value provided in the `PowerCenterJobExecutor.properties` properties file. This field is optional.

**Repository Name**

The repository where the workflow is located. Click the **Repository List** tab to get a list of selectable repositories.

**Workflow information**

Use this section to identify the workflow that you want the job to run.

**Service Name**

The integration service used to run the workflow. Click the **Service List** tab to get a list of selectable integration services.

**Folder Name**

The folder in the repository that you selected where the workflow is located. Click the **Folder List** tab to get a list of selectable folders.

**Workflow Name**

The name of the workflow that you want to run. Click the **Workflow List** tab to get a list of selectable workflows located in the folder that you indicated in the previous field.

**Workflow Parameter File**

The full path and name of the parameters file, stored on the Informatica PowerCenter server, that contains a list of parameters to be passed to the workflow when its run is issued. You can find instructions to write and use parameters files in the Informatica PowerCenter documentation guides.



---

## Chapter 7. Defining jobs with composer

### Distributed

Define a Tivoli Workload Scheduler job to run a PowerCenter workflow by using **composer** if you are connected to a distributed engine.

### Purpose

Use the following syntax to define a Tivoli Workload Scheduler job that runs a PowerCenter workflow.

### Syntax

```
$jobs  
[workstation#]jobname  
    task job_definition [streamlogon username}  
    [description "description"]  
    [tasktype tasktype]  
    [interactive]  
    [rcondsucc "Success Condition"]  
    [recovery  
        {stop | continue | rerun}  
    [after [workstation#]jobname]  
    [abendprompt "text" ]
```

Use the **task** argument to specify the XML syntax of the job for PowerCenter.

For a detailed description of the XML syntax, see "Task definition for PowerCenter jobs."

For further details on job definitions with the **composer** command line, see Defining objects in the database > Defining Scheduling Object > Job Definition in the *Tivoli Workload Scheduler: User's Guide and Reference*.

---

## Task definition for PowerCenter jobs

Tivoli Workload Scheduler job definition properties and JSDL examples for running PowerCenter jobs.

Table 4 describes the required and optional attributes for PowerCenter jobs, together with a description of each attribute.

Table 4. Required and optional attributes for the job definition of PowerCenter jobs.

Attribute	Description/value	Required
application name	powercenter	✓
UserName	The name used to access the PowerCenter repository. See <b>Note</b> .	✓
password	The password used to access the PowerCenter repository. It is encrypted when you submit the job. See <b>Note</b> .	✓

Table 4. Required and optional attributes for the job definition of PowerCenter jobs. (continued)

Attribute	Description/value	Required
repositoryDomain	The domain where the repository is located. See <b>Note</b> .	
serviceDomain	The domain where the PowerCenter Integration Service is located. See <b>Note</b> .	
repository	The name of the PowerCenter repository where the workflow is located.	✓
service	The name of the integration service used to run the workflow.	✓
folder	The name of the folder where the workflow is located in the repository that you selected.	✓
workflow	The name of the workflow that you want to run.	✓
wkfParamFile	The full path and name of the file, stored on the Informatica PowerCenter server, that contains a list of parameters to be passed to the workflow at runtime.	

**Note:** If you do not want to specify a value for this attribute in the XML, you can define it in the `PowerCenterJobExecutor.properties` file. See Chapter 8, “Customizing the job executor properties file,” on page 23 for details.

The following example shows the job definition of a PowerCenter job with all the attributes specified:

```

$JOBS
LINUX206#PC-FULL
TASK
<?xml version="1.0" encoding="UTF-8"?>
<jsd1:jobDefinition xmlns:jsdl="http://www.ibm.com/xmlns/prod/scheduling/1.0/jsdl"
xmlns:jsdlpowercenter="http://www.ibm.com/xmlns/prod/scheduling/1.0/jsdlpowercenter" name="POWERCENTER">
  <jsd1:application name="powercenter">
    <jsd1powercenter:powercenter>
      <jsd1powercenter:PowerCenterParameters>
        <jsd1powercenter:PowerCenterPanel>
          <jsd1powercenter:logon>
            <jsd1powercenter:userName>Administrator</jsdlpowercenter:userName>
            <jsd1powercenter:password>{aes}BPnRnktQdkmJt3H1y/r4Z4EVy40EWhUGpur+qshPdhU=</jsdlpowercenter:password>
            <jsd1powercenter:repositoryDomain>Domain_nc125123</jsdlpowercenter:repositoryDomain>
            <jsd1powercenter:serviceDomain>Domain_nc125123</jsdlpowercenter:serviceDomain>
            <jsd1powercenter:repository>MyRepository</jsdlpowercenter:repository>
          </jsdlpowercenter:logon>
          <jsd1powercenter:jobDefinitionGroup>
            <jsd1powercenter:projectNameGroup>
              <jsd1powercenter:service>IntegrationService</jsdlpowercenter:service>
              <jsd1powercenter:folder>tw4apps</jsdlpowercenter:folder>
              <jsd1powercenter:workflow>DB2_COPY_FROM_SOURCE_TO_TARGET</jsdlpowercenter:workflow>
            </jsdlpowercenter:projectNameGroup>
            <jsd1powercenter:wkfParamFile>C:\Informatica variables file.txt</jsdlpowercenter:wkfParamFile>
          </jsdlpowercenter:jobDefinitionGroup>
        </jsdlpowercenter:PowerCenterPanel>
      </jsdlpowercenter:PowerCenterParameters>
    </jsdlpowercenter:powercenter>
  </jsdl:application>
</jsdl:jobDefinition>
DESCRIPTION "Added by composer1."
RECOVERY STOP

```

The following example shows the job definition of the same PowerCenter job with only the required attributes specified:

```

$JOBS
LINUX206#PC-REQD
TASK
<?xml version="1.0" encoding="UTF-8"?>
<jsd1:jobDefinition xmlns:jsdl="http://www.ibm.com/xmlns/prod/scheduling/1.0/jsdl"
xmlns:jsdlpowercenter="http://www.ibm.com/xmlns/prod/scheduling/1.0/jsdlpowercenter" name="POWERCENTER">
  <jsd1:application name="powercenter">
    <jsd1powercenter:powercenter>
      <jsd1powercenter:PowerCenterParameters>
        <jsd1powercenter:PowerCenterPanel>
          <jsd1powercenter:logon>
            <jsd1powercenter:userName/>
            <jsd1powercenter:password/>
            <jsd1powercenter:repositoryDomain/>
            <jsd1powercenter:serviceDomain/>
            <jsd1powercenter:repository>MyRepository</jsdlpowercenter:repository>
          </jsdlpowercenter:logon>
          <jsd1powercenter:jobDefinitionGroup>
            <jsd1powercenter:projectNameGroup>
              <jsd1powercenter:service>IntegrationService</jsdlpowercenter:service>
              <jsd1powercenter:folder>tw54apps</jsdlpowercenter:folder>
              <jsd1powercenter:workflow>DB2_COPY_FROM_SOURCE_TO_TARGET</jsdlpowercenter:workflow>
            </jsdlpowercenter:projectNameGroup>
            <jsd1powercenter:wkfParamFile/>
          </jsdlpowercenter:jobDefinitionGroup>
        </jsdlpowercenter:PowerCenterPanel>
      </jsdlpowercenter:PowerCenterParameters>
    </jsdlpowercenter:powercenter>
  </jsdl:application>
</jsdl:jobDefinition>
DESCRIPTION "Added by composer1."
RECOVERY STOP

```



---

## Chapter 8. Customizing the job executor properties file

A property file is added in the plug-in configuration directory on the agent to provide plug-in configuration parameters and repetitive keys.

The installation of the plug-in on the Tivoli Workload Scheduler agent(s) includes the creation of file `PowerCenterJobExecutor.properties` in the `TWS_home\JavaExt\cfg (/JavaExt/cfg)` directory.

The file contains two types of properties for the use of the plug-in jobs:

- Credential properties that are repeated in all the plug-in job definitions. If you specify them in this file, you can leave the corresponding fields blank in the job definition and the values are retrieved from the properties file at runtime.

The properties are:

**userName**

The name used to access the repository.

**password**

The password used to access the repository. The password is encrypted the first time it is used (either in a pick list or at the runtime of a job).

**repositoryDomain**

The domain where the repository is located.

**serviceDomain**

The domain where the Integration Service is located.

The values specified for any of these properties in the file are overridden by the job definition values when entered in the corresponding fields.

- Properties required to establish a connection with the Informatica Web Services Hub. It is mandatory that you specify these properties in the file.

The properties are:

**hostName**

The hostname or the IP address of the computer hosting the Informatica Web Services Hub; that is, the service that provides the web services used for accessing the workflows.

**port** The port number of the Informatica Web Services Hub.

**isSSLEnabled**

Specifies if the Informatica Web Services Hub is enabled to the SSL protocol. Set this property to true or false.

If `IsSSLEnabled=true`, you must also change the `JVMOption` key in file `JobManager.ini` located in directory `TWS_home\ITA\cpa\config (\ITA\cpa\config)` on the agent. See Chapter 5, “Configuring for SSL,” on page 13.

In the file the properties are specified each in a line, using the `key=value` syntax.



---

## Chapter 9. Scheduling and submitting job streams for PowerCenter jobs

Submitting Tivoli Workload Scheduler for PowerCenter jobs.

**Distributed** You use the Dynamic Workload Console or the command line.

**z/OS** You use the Dynamic Workload Console or the ISPF application.

After you define a Tivoli Workload Scheduler for PowerCenter job, you add it to a job stream with all the necessary scheduling arguments and submit it.

After submission you can kill the Tivoli Workload Scheduler for PowerCenter job, if necessary. This action is converted to an **Abort** action for the PowerCenter workflow.

The Tivoli Workload Scheduler agent might become unavailable while the job running the PowerCenter workflow is in execution. When the agent becomes available again, Tivoli Workload Scheduler starts to monitor the job from where it stopped.



---

## Chapter 10. Checking job results

When the scheduled time to run a plug-in job is reached, the job is run by the agent and the selected workflow is invoked with the chosen parameters.

You can monitor and possibly interrupt the job by using the monitoring features of Tivoli Workload Scheduler.

When the job completes, the status of the plug-in job reflects the status of the executed workflow and a job log is made available. The job log shows the status, start date, and end date of any first-level tasks contained in the workflow, if these are sessions or worklets.

Details produced by Informatica about the run of the workflow are also copied in the job log after the task status.

The following figure shows the partial details of a job log displayed by Tivoli Workload Scheduler.

```
Job TEST110
Workstation (Job) TWSAGENT
Job Stream JOBS
Workstation (Job Stream) TWSAGENT

</jstl:orderofexecutionofkstitutions>
</jstl:resources>
</jstl:jobdefinition>
= TWSRCHAP :
= AGENT : TWSAGENT
= Job Number: 908074632
= Mon Feb 13 08:44:01 EST 2012
-----
Workflow Name: wf_double_task
Runid: 301
Status: SUCCEEDED
Start Time: 13/3/2012 8:44:2
Completion Time: 13/3/2012 8:44:47
Log File Path: C:\Informatica\PowerCenter8.6.1\server\infa_shared\WorkflowLogs\wf_double_task.log

Task Name      Start Time      Completion Time  Status
-----
s_mymp2        13/3/2012 8:44:2  13/3/2012 8:44:8  SUCCEEDED
s_mymp3        13/3/2012 8:44:41 13/3/2012 8:44:45 SUCCEEDED
-----

INFO : Mon Feb 13 08:44:02 2012 [LM_36435] : 5124 Starting execution of workflow [wf_double_task] in folder [myfolder] last saved by user [Ad
INFO : Mon Feb 13 08:44:02 2012 [LM_44206] : 5124 Workflow wf_double_task started with run id [301], run instance name [], run type [Concurre
INFO : Mon Feb 13 08:44:02 2012 [LM_44195] : 5124 Workflow [wf_double_task] service level [SLPriority:5,SLDispatchWaitTime:1800].
INFO : Mon Feb 13 08:44:02 2012 [VAR_27085] : 5124 Parameter file [C:\Informatica\PowerCenter8.6.1\server\infa_shared\Temp\wf_double_task_005
INFO : Mon Feb 13 08:44:02 2012 [LM_44253] : 5124 Workflow started. Clients will be notified
INFO : Mon Feb 13 08:44:02 2012 [LM_36330] : 5124 Start task instance [Start]: Execution started.
INFO : Mon Feb 13 08:44:02 2012 [LM_36318] : 5124 Start task instance [Start]: Execution succeeded.
INFO : Mon Feb 13 08:44:02 2012 [LM_36505] : 5124 Link [Start -> s_mymp2]: empty expression string, evaluated to TRUE.
INFO : Mon Feb 13 08:44:02 2012 [LM_36388] : 5124 Session task instance [s_mymp2] is waiting to be started.
INFO : Mon Feb 13 08:44:02 2012 [LM_36682] : 5124 Session task instance [s_mymp2] started a process with pid [1872] on node [node01_xn.encl
```

Figure 1. Partial details of a plug-in for Informatica PowerCenter job log.

### Messages

All the messages issued by the plug-in are described in *Tivoli Workload Automation: Messages and Codes*.

---

## Mapping PowerCenter workflow status to job status

Map job status to PowerCenter workflow status to understand their processing.

Table 5 on page 28 table shows how you can map the job status to the PowerCenter workflow status based on the return code you find in the job log output.

Table 5. Mapping between job statuses and PowerCenter workflow statuses

PowerCenter workflow status	Dynamic Workload Console job status	Tivoli Workload Scheduler job status	Tivoli Workload Scheduler for z/OS job status
Running	Running	EXEC	Executing
Succeeded	Successful	SUCC	Completed
Failed	Error	ABEND	Error
Aborted	Error	ABEND	Error
Stopped	Error	ABEND	Error
Suspended	Running	EXEC	Executing

---

## Chapter 11. Known problems and workarounds

This chapter lists problems known with the product and available workarounds.

The following problems are known:

- “Unsupported installation scenario”
- “Incorrect label for uninstall button”
- “Incorrect worklet status displayed in the job log”
- “Cannot submit jobs after a Web Services Hub restart” on page 30

---

### Unsupported installation scenario

Installing the distributed connector component on a fault-tolerant agent prevents the correct installation of the plug-in for PowerCenter.

The following installation steps cause the failure of the installation of the plug-in for PowerCenter:

1. Upgrade a Version 8.6 fault-tolerant agent to Version 8.6 fixpack 1.
2. Install the distributed connector on this fault-tolerant agent.
3. Install the plug-in for PowerCenter on the same agent.

Installation of the plug-in fails because installing the distributed connector moves the fault-tolerant agent back to Version 8.6. Avoid running this scenario. No error messages are issued for such failure.

---

### Incorrect label for uninstall button

In the installation wizard the button to proceed with the uninstallation of the plug-in is incorrectly labelled **Install**.

In the installation wizard, after you select the **Uninstall** option in the Choose operation screen and you proceed to select the plug-in that you want to uninstall, the button to continue with the uninstallation process in the Pre-summary screen is labeled **Install**. It should instead be labeled **Next** or **Uninstall**.

You can however safely press the **Install** button to uninstall the product.

---

### Incorrect worklet status displayed in the job log

The problem occurs when renaming worklets using the Informatica PowerCenter Workflow Manager. If the worklet name defined in the Worklet Designer is different from the worklet name specified in the Workflow Designer, an erroneous status is reported in the Tivoli Workload Scheduler job log.

#### Summary

Incorrect worklet properties are shown in the job log after the Tivoli Workload Scheduler job run.

## Problem symptom

Despite the successful completion of a worklet, the Tivoli Workload Scheduler job log displays its status as UNKNOWN and does not display the Start and Completion times, as shown below:

Task Name	Start Time	Completion Time	Status
Worklet_Renamed			UNKNOWN

## Solution

To avoid this problem, you must use the same worklet name consistently in both the Worklet Designer and in the Workflow Designer.

If you need to add multiple instances of the same worklet to the same workflow, create as many duplicate worklets as necessary in the Worklet Designer and import each one into the workflow definition maintaining its original name.

The problem is due to an Informatica Powercenter defect, for which change request 296860 is outstanding. A formal solution to the problem should be provided by the Informatica HotFix that will address this change request.

---

## Cannot submit jobs after a Web Services Hub restart

Tivoli Workload Scheduler plug-in for Informatica jobs fail to submit after an Informatica PowerCenter Web Services Hub restart.

### Summary

A restart of the PowerCenter Web Services Hub prevents the proper submission of Tivoli Workload Scheduler plug-in for Informatica jobs.

### Problem symptom

Following a restart of the Web Services Hub, the Tivoli Workload Scheduler jobs launched from the command line end in FAIL state (Error state in the Dynamic Workload Console) and return the following exception in the job log:

```
AWKIPC005E Failed to run workflow.  
-----  
Remote Exception  
-----
```

### Solution

After restarting the Hub, to enable the correct submission of plug-in jobs, connect to the Informatica PowerCenter Web Services Hub URL and follow these steps:

1. In the Navigator pane, expand **Web Service** -> **Batch WebService**, and then click **Integration WebService**.
2. In the Operations pane, click **Try-It** from the toolbar.
3. In the Web Service Operations Navigator pane, click **login**.
4. Fill out the form in the right pane, specifying the required information in the **UserName**, **RepositoryName**, and **Password** text fields.
5. Click **Send**.
6. In the SOAP Response pane, copy the value for the **SessionId** tag.
7. In the Web Service Operations Navigator pane, click **getWorkflowLog**.

8. Paste the value copied previously in the **SessionId** text field and then enter the required information in the **FolderName**, **WorkflowName**, **Timeout**, and **ServiceName** text fields.
9. Click **Send**.  
You can now submit jobs safely again.

The problem is due to an Informatica Powercenter defect, for which change request 296859 is outstanding. A formal solution to the problem should be provided by the Informatica HotFix that will address this change request.



---

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