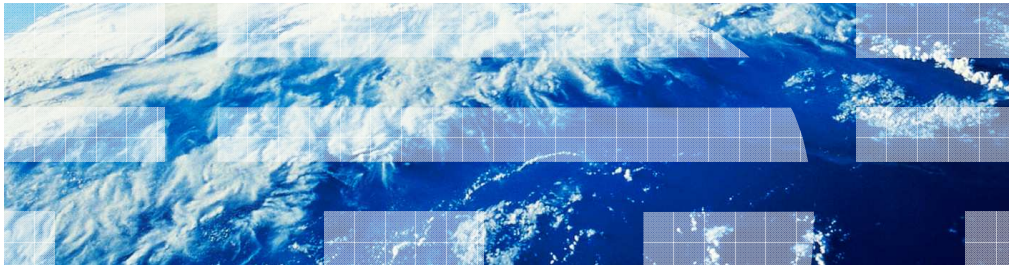


IBM Tivoli Workload Scheduler for Applications V8.5

Configuring Tivoli Workload Scheduler for Applications for PeopleSoft



In this module, you will learn how to configure Tivoli® Workload Scheduler for Applications for PeopleSoft so that you can run and monitor PeopleSoft jobs from the Tivoli Workload Scheduler environment.

Extended agent definition

- IBM Tivoli Workload Scheduler uses extended agents (XA) to extend its job scheduling functions on other systems and applications, both in distributed and end-to-end environments
- An extended agent is a workstation that has a host and an access method
- The host can be a Tivoli Workload Scheduler workstation, but it cannot be another XA. The host is a virtual agent
- The access method is a program that is executed by the hosting workstation whenever Tivoli Workload Scheduler needs to interact with the external system

IBM Tivoli Workload Scheduler uses eXtended Agents (XA) to extend its job scheduling functions on other systems and applications, both in distributed and end-to-end environments. An extended agent is a workstation that has a host and an access method. The host can be a Tivoli Workload Scheduler workstation, but it cannot be another XA. The host is a virtual agent. The access method is a program that is executed by the hosting workstation whenever Tivoli Workload Scheduler needs to interact with the external system.

Configuration steps

- After the access method has been installed on the target hosting workstation, you must configure the extended agent by performing the following steps:
 - Define the workstation
 - Create an options file
 - Import the component interface

After the access method has been installed on the target hosting workstation, you must configure the extended agent by performing the following steps: define the workstation; create an options file; import the component interface.

XA workstation definition

- You must define the extended agent workstation into the Tivoli Workload Scheduler database according to the standard methods:
 - In a distributed environment, you can use either composer CLI or the Job Scheduling Console (JSC) GUI and Tivoli Dynamic Workload Console (TDWC) GUI
 - In an end-to-end environment, you define the workstation by means of the CPUREC initialization statement using either the Interactive System Productivity Facility (ISPF) or JSC and TDWC user interfaces
- To connect to more than one PeopleSoft application server, you can set up multiple PeopleSoft extended agent workstations that connect to the same method but use different options files

You must define the extended agent workstation into the Tivoli Workload Scheduler database according to the standard methods. In a distributed environment, you can use either composer CLI or the Job Scheduling Console (JSC) GUI and Tivoli Dynamic Workload Console (TDWC) GUI. In an end-to-end environment, you define the workstation by means of the CPUREC initialization statement using either the Interactive System Productivity Facility (ISPF) or JSC and TDWC user interfaces. To connect to more than one PeopleSoft application server, you can set up multiple PeopleSoft extended agent workstations that connect to the same method but use different options files.

XA workstation definition example

workstation definition:

```

cputype PSCPU
description "PeopleSoft extended agent"
os other
node myhost.ibm.tivoli.com
tcpaddr 51111
domain masterdm
for maestro
type x-agent
host HostAgent
access psagent
end
  
```

Note: Node name and TCP port have no effect on the PeopleSoft agent

The screenshot shows a 'Properties - Workstation in Database' dialog box with the following fields and values:

- Information:**
 - Ignore
 - Name: PSCPU
 - Domain: [empty]
 - Description: PeopleSoft extended agent
 - Workstation Type: Extended Agent
 - Operating System: Other
 - Full Status
 - Time Zone: [empty]
- Communication Options:**
 - Node Name: psagent
 - TCP Port: 51111
 - SSL Communication: Disabled
 - SSL Port: [empty]
 - Mailman Server: [empty]
 - Behind Firewall
 - Auto Link
- Extended Agent Options:**
 - Access Method: psagent
 - Host: HostAgent

This is an example of the workstation definition. On the left side you see the workstation definition made using "composer" CLI. On the right, you see the same definition made using the Job Scheduling Console (JSC) Panel workstation definition. Note that TCP port and node name have no effect on the Peoplesoft agent.

XA option files

- The Tivoli Workload Scheduler for Applications installation process creates a default global options file for the psagent access method, named psagent.opts
- You can also create a local file, named `<cpuname>_psagent.opts`, which must be located in the TWS_home/methods directory of the hosting computer for the extended agent

Note: The options file name is case-sensitive

- Options file contains a set of options (one option per line) with the following format:

OPTION=VALUE

- You can create and manage options files with the Option Editor and manually

Note: If the psagent method finds the local option file for an extended agent, it ignores the same information contained in psagent.opts

The Tivoli Workload Scheduler for Applications installation process creates a default global options file for the psagent access method, named psagent.opts. You can also create a local options file, named `<name_of_CPU>_psagent.opts`, which must be located in the TWS_home/methods directory of the hosting computer for the extended agent. Note that the options file name is case-sensitive. The options file contains a set of options, one option per line, with the format `OPTION=VALUE`. You can create and manage options files with the Option Editor and manually. Note that if the psagent method finds the local options file for an extended agent, it ignores the same information contained in psagent.opts.

XA option files: Options list

You can customize these options:

Mandatory	Optional
PSFT_OPERATOR_ID PSFT_OPERATOR_PWD SERVER_NAME_LIST	RUNLOCATION PSJOAPATH TWS_RETRY TWS_MAX_WAIT_TIME TWS_MIN_WAIT_TIME CHECKINTERVAL LJUSER PS_DISTSTATUS TWSXA_INLINE_CI TWSA_SCHED_METH

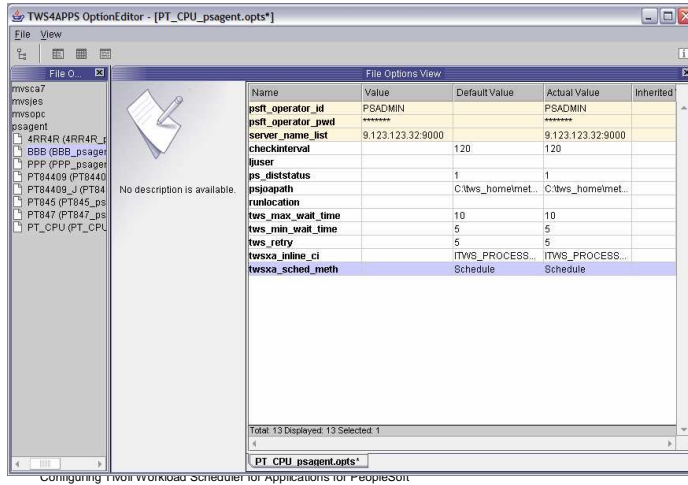
Note: The following options are no longer in use in Tivoli Workload Scheduler for Applications V8.3 and later:

- CHECKINTERVALUNITS
- CONNECT

This is the list of the mandatory and optional options that can be specified in the configuration files. Note that CHECKINTERVALUNITS and CONNECT options are no longer used in Tivoli Workload Scheduler 8.3 and later.

XA option files: Option editor

The option editor has been modified to fully manage the new options of the PeopleSoft access method



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Configuring the workload scheduler for Applications for PeopleSoft

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The Option Editor has been modified to fully manage the new options of the PeopleSoft access method.

Importing the component interface

- Perform these configuration steps only if you need to enable Tivoli Workload Scheduler for Applications to schedule PeopleSoft jobs that have in-line variables in their definitions
- The ITWS_PROCESSREQUEST component interface enables Tivoli Workload Scheduler for Applications to schedule PeopleSoft jobs that have in-line variables in their definitions. By invoking this component interface, the access method provides the ability to use data stored in the PeopleSoft database to resolve in-line variable values by taking data from the database and substituting it with variable definitions.
- Need to upload a new PeopleSoft project related to PeopleTools 8.44, or later, into the PeopleSoft database. The name of the PeopleSoft project is ITWS. It is saved in the TWS_home/methods directory during Tivoli Workload Scheduler method installation
- Refer to official documentation for a detailed description of steps to perform:

<http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/index.jsp?topic=/com.ibm.tivoli.itwsfa.doc/awsumst92.htm>

Perform these configuration steps only if you need to enable Tivoli Workload Scheduler for Applications to schedule PeopleSoft jobs that have in-line variables in their definitions. The ITWS_PROCESSREQUEST component interface enables Tivoli Workload Scheduler for Applications to schedule PeopleSoft jobs that have in-line variables in their definitions. By invoking this component interface, the access method provides the ability to use data stored in the PeopleSoft database to resolve in-line variable values by taking data from the database and substituting it with variable definitions. You need to upload a new PeopleSoft project related to PeopleTools 8.44, or later, into the PeopleSoft database. The name of the PeopleSoft project is ITWS. It is saved in the TWS_home/methods directory during Tivoli Workload Scheduler method installation. For a detailed description of steps to perform you can refer to the URL listed on the slide.

Summary

- After you install Tivoli Workload Scheduler for Applications for PeopleSoft, you need to configure it so that you can connect to the PeopleSoft server and perform jobs on the server.
- More detailed information is available at this address:
<http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/index.jsp?topic=/com.ibm.tivoli.itwsfa.doc/awsumst87.htm>

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