

HP Operations Smart Plug-in for PeopleSoft

Configuration Guide

Version: 3.01

For HP-UX, Solaris and Linux operating systems



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1. Smart Plug-in for PeopleSoft	
In this Section	10
2. Introducing the PeopleSoft SPI	
In this Section	14
What is PeopleSoft?	15
What is the PeopleSoft SPI?	17
What does the PeopleSoft SPI Do?	18
How does the PeopleSoft SPI Work?	20
3. Installing the PeopleSoft SPI	
In this Section	22
System Pre-Requisites	23
Hardware Requirements	23
Software Requirements	24
Supported Platforms and Versions	25
Supported Versions: PeopleTools	25
Supported Versions: HPO Server	26
Supported Platforms: HPO Agent	26
Supported Platforms: Database-Server Components	26
Supported Platforms: Web-Server Components	26
Installing the PeopleSoft SPI on the Management Server	27
Removing the PeopleSoft SPI	27
Installing the PeopleSoft SPI Software	27
Verifying the Software Installation	27
Update remactconf.xml File (HPO 9.x only)	29
De-installing the PeopleSoft SPI	30
De-installing from Managed PeopleSoft Systems	30
De-installing from the HPO Management Server	31
4. Configuring the PeopleSoft SPI	
Configuring the PeopleSoft SPI to Manage PeopleSoft Systems	34
Setting up PeopleSoft Systems as HPO Nodes	35
Distributing the HPO Agent to the PeopleSoft Systems	36
Distributing PeopleSoft SPI Instrumentation	37
Configuring the PeopleSoft SPI to Monitor the Database	38
Special installation notes for the SPI for Databases	39
Discovering PeopleSoft Components on the Managed Nodes	40

The PeopleSoft Environment	40
PeopleSoft Application Servers	43
PeopleSoft Batch Servers	43
PeopleSoft Web Server	44
General Discovery Strategy and Prerequisites	44
Assigning Nodes to Node Groups	45
Distributing PeopleSoft SPI Policies	46
Activating the Configuration on the PeopleSoft Nodes	47
Setting up PeopleSoft Users	48
Non-root Agent Support	50

5. Using the PeopleSoft SPI

In this Section	54
Introduction	55
The PeopleSoft SPI Managed-Node Groups	56
The PeopleSoft SPI Tools Groups	57
The PSSPI-Admin Tools Group	57
The PSoft-Admin Tools Group	61
The PSoft-Oper Tools Group	62
The PSoft-Reports Tools Group	65
The PeopleSoft SPI Users	68
The PeopleSoft SPI Policies	70
The PSSPI-App_Server Policy Group	71
The PSSPI-Batch_Server Policy Group	73
The PSSPI-DB2DB_Server Policy Group	73
The PSSPI-MSSDB_Server Policy Group	74
The PSSPI-OraDB_Server Policy Group	75
The PSSPI-DB_LogFile Policy	77
The PSSPI-Web_Server Policy Group	78
PeopleSoft SPI Policies on Cluster Nodes	79
Disabling the PeopleSoft SPI on Cluster Nodes	79
Enabling the PeopleSoft SPI on Cluster Nodes	80
Using the HP Performance Agent	81

6. Using Service Views

In this Section	84
-----------------------	----

Service Views with the PeopleSoft SPI	85
Viewing PeopleSoft Services	86
Viewing PeopleSoft Instances	87
PeopleSoft Resources and Processes	88
Service Discovery, Activation, and Assignment	90

7. HPO Service Reports

In this Section	92
Data Sources.	93
PeopleSoft SPI Reports	94
Installing PeopleSoft SPI Reports.	95

8. Troubleshooting the PeopleSoft SPI

In this Section	98
General Troubleshooting Notes.	99
Determining the PeopleSoft SPI Version	100
PeopleSoft SPI Verification Scripts	101
PeopleSoft SPI Error Logging	102
PeopleSoft SPI Tracing	103
Self-Healing Integration	105

A. PeopleSoft SPI File Names

In this Section	108
Product Bundles and Filesets	109
Files on the Management Server	110
Files on the Managed Nodes	111
PeopleSoft Configuration Files	112
The psspi.cfg Configuration File	112
The psspi.disc Configuration File	113
The ps.cfg Configuration File.	116

B. PeopleSoft SPI Components

Policies	118
The Policy Repository.	119
Log-File Scripts	124
Monitor Scripts.	125

C. PeopleSoft SPI Commands

In this Section	132
The psspi_act.pl Command	133
The psspi_actsvc.pl Command	134
The psspi_bldsvc.pl Command	135
The psspi_cleanup.pl Command	136
The psspi_dbcax.pl Command	137
The psspi_df.pl Command	138
The psspi_disc.pl Command	139
The psspi_inst.pl Command	140
The psspi_ipcs.pl Command	141
The psspi_pspt.pl Command	142
The psspi_shs.pl Command	143
The psspi_spicl.pl Command	144
The psspi_tmcl.pl Command	145
The psspi_verify.pl Command	146

Support

Please visit the HP software web site at:

<http://www.hp.com/managementsoftware/support/>

This web site provides contact information and details about the products, services, and support that HP software offers.

HP software online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valuable support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest
- Submit enhancement requests online
- Download software patches
- Submit and track progress on support cases
- Manage a support contract
- Look up HP support contacts
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Most of the support areas require that you register as an HP Passport user and log in. To find more information about access levels, go to the following URL:

http://h20230.www2.hp.com/new_access_levels.jsp

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<http://h20229.www2.hp.com/passport-registration.html>

1 Smart Plug-in for PeopleSoft

This section describes the contents of the on-line help for the PeopleSoft SPI.

In this Section

The on-line help for the Smart Plug-in for PeopleSoft provides all the information you need to install and use the PeopleSoft SPI to manage and monitor your PeopleSoft environment from a central location. The on-line help includes information about the following topics:

- “Introducing the PeopleSoft SPI”

This section describes the Smart Plug-in for PeopleSoft (PeopleSoft SPI) and explains how the various components fit together and work.
- “Installing the PeopleSoft SPI”

This section describes how to prepare for, perform, and verify the installation of the Smart Plug-in for PeopleSoft.
- “Configuring the PeopleSoft SPI”

This section describes how to configure the various installed components of the Smart Plug-in for PeopleSoft.
- “Using the PeopleSoft SPI”

This section describes what you get with the Smart Plug-in for PeopleSoft and how to start using it.
- “Using Service Views”

This section describes how to take advantage of the service model of the PeopleSoft environment built by the Smart Plug-in for PeopleSoft.
- “HPO Service Reports”

This section describes Smart Plug-in for PeopleSoft data collections that allows reporting.
- “Troubleshooting the PeopleSoft SPI”

This section describes how to go about troubleshooting the Smart Plug-in for PeopleSoft.
- “PeopleSoft SPI File Names”

This section describes which files are installed by the Smart Plug-in for PeopleSoft and where exactly they are located after the installation and configuration of the product has been completed successfully.

- “PeopleSoft SPI Components”

This section describes which components are installed by the Smart Plug-in for PeopleSoft and provides detailed reference material, which aims to help you understand how the various components work and interact with each other.

- “PeopleSoft SPI Commands”

In this section you can find information relating to the functions used by the Smart Plug-in for PeopleSoft tools. You can use these functions to create customized HPO tools.

In this Section

This section describes the HP Operations Smart Plug-in for PeopleSoft (PeopleSoft SPI) and explains how the various components fit together and work. The information in this section covers the following topics:

- “What is PeopleSoft?”
- “What is the PeopleSoft SPI?”
- “What does the PeopleSoft SPI Do?”
- “How does the PeopleSoft SPI Work?”

What is PeopleSoft?

PeopleSoft is a leading application software suite in the ERP (Enterprise Resource Planning) area and primarily known for its human resource components.

PeopleSoft is a distributed software application. Two types of configuration are common:

- 2-tier
- 3-tier

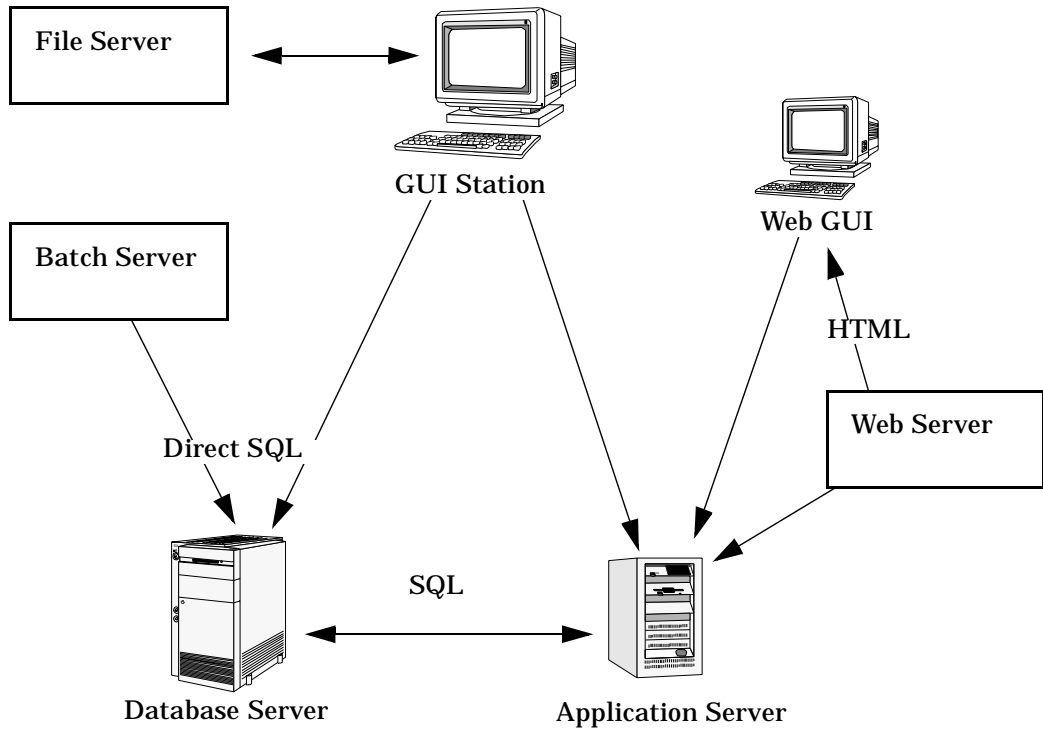
A basic 2-tier installation consists of a GUI station and a database server, where the database server can also run background batch processes. This configuration allows direct access to the database.

For larger environments or environments handling a large number of transactions, PeopleSoft supports a 3-tier configuration which includes an intermediate application-server layer. This improves performance and scalability by distributing the processing and caching data. Servers can (but do not have to) reside on separate machines. Figure 2-1 on page 16 illustrates a typical 3-tier PeopleSoft environment.

Additional servers may be found in a PeopleSoft environment and provide dedicated services:

- File server
provides PeopleSoft GUI software for the client systems
- Batch server
hosts the execution of batch jobs
- Web Server
provides access to web client software based on Java/HTML

Figure 2-1 Typical 3-Tier PeopleSoft Environment



What is the PeopleSoft SPI?

HP Operations Smart Plug-ins are fully integrated solutions which "plug into" HP Operations and extend the managed domain to industry leading business, Internet, middleware, database, and management applications. An extension of the HP Operations platform, Smart Plug-ins are tightly integrated modules which leverage the familiarity, security, and scalability of HP Operations solutions, while eliminating redundant infrastructure and processes.

The Smart Plug-in for PeopleSoft provides IT organizations with a pre-configured management solution for PeopleSoft environments based on HP Operations, the industry-leading enterprise-availability and automation solution. With HP Operations and the PeopleSoft SPI, you can centrally manage and administer the many different layers that impact the performance and availability of the PeopleSoft environment: the network, systems, Tuxedo, databases and the PeopleSoft application itself.

The PeopleSoft SPI is mainly intended for enterprise customers with a need for a PeopleSoft management solution: it allows the customer to manage distributed PeopleSoft environments. A PeopleSoft environment may consist of one or more PeopleSoft servers (e.g. application server, batch server), which can (but do not have to) reside on different systems.

Furthermore, there are a number of different client systems. PeopleSoft client and server components are supported on specific platforms. For more information see "Supported Platforms and Versions" on page 25. The PeopleSoft SPI itself can be installed in a distributed management environment consisting of one or more HPO servers, one or more HP Operations agents, and HP Performance Manager consoles.

Although each of these components is supported on a number of different platforms, the PeopleSoft SPI is only guaranteed to work correctly in specific, supported environments. The PeopleSoft SPI comprises several components some of which are directly assigned to specific PeopleSoft components.

What does the PeopleSoft SPI Do?

The PeopleSoft SPI is a product that complies with HP Software standards and provides availability and performance monitoring of a typical PeopleSoft environment. As with all Smart Plug-ins for HP Operations (HPO), the idea is to provide a pre-configured integration that works out-of-the-box in most situations but, if necessary, is also easily adaptable to your specific environment.

The PeopleSoft SPI provides complete integration with the standard HPO monitoring feature (policies) and the HPO graphical user interface (GUI), for example: tools, nodes, services, and so on. Each integration capability is independent to guarantee that those people who do not have all of the required HP Software products are still able to install and use the PeopleSoft SPI - always assuming that HPO is already present. Note that integrations with HP Performance Manager is optional.

The Smart Plug-in for PeopleSoft delivers monitoring and management capabilities specifically targeted at common PeopleSoft management issues. For example:

- monitoring batch job status and detecting failed or delayed jobs and malfunctioning components (such as the process scheduler) allows faster problem resolution.
- dynamic log file monitoring so that important event data registered by the various distributed error logs from PeopleSoft, Tuxedo, and log files are available if and when needed. Consolidating and filtering this data into a centralized event system leads to more rapid identification of the root cause of problems.
- pre-configured actions, such as starting the PeopleSoft application, are provided for specific events and implemented automatically to ensure the most rapid recovery from any crash or failure
- pre-defined reports providing information about user or batch job activity so that operators can quickly analyze and prevent performance bottlenecks.
- status information about all components of the PeopleSoft environment is constantly provided. The Smart Plug-in for PeopleSoft monitors the PeopleSoft application, any subsystems such as Tuxedo, and the DBMS and server processes. Monitoring is

performed with scripts or programs that are executed at defined intervals: policies interpret the collected metrics for rapid problem resolution.

In addition, and assuming the appropriate HP Software products are already installed and configured, data may also be fed to the HP Performance Agent to allow a graphical presentation and reporting. Further integration with the HP ServiceNavigator allows a graphical representation of the PeopleSoft components and their dependencies. Note that those components of the PeopleSoft environment not specifically covered by the Smart Plug-in for PeopleSoft (file server) can nonetheless be monitored with standard HP Operations features.

How does the PeopleSoft SPI Work?

The PeopleSoft SPI monitors the database server, the application server, and the batch server in the PeopleSoft environment and provides information through messages, graphs, and reports that show the current state of the environment. The SPI provides the following features and functionality:

- **Monitoring:**
 - PeopleSoft and Tuxedo log files (including the handling of dynamic log-file names)
 - High-level status of Tuxedo
 - High-level status of the DBMS
 - Critical OS resources (IPC, disk space)
 - Essential processes (e.g. PeopleSoft process scheduler)
 - Batch-job status
 - business metrics that are relevant to the management of PeopleSoft
 - Key resources of the PeopleSoft database
 - Load on the PeopleSoft application server
- **Integration:**
 - Service model specifically for a PeopleSoft environment
 - Standard PeopleSoft administration tools
- **Tools:**
 - Tools to manage PeopleSoft-related operating tasks (start/stop Tuxedo domains, PS process scheduler, etc.)
 - Tools to generate status or configuration reports

3 **Installing the PeopleSoft SPI**

This section describes how to install the Smart Plug-in for PeopleSoft.

In this Section

This section describes how to install and remove the Smart Plug-in for PeopleSoft. This section includes information concerning the following topics:

- “System Pre-Requisites”
- “Supported Platforms and Versions”
- “Installing the PeopleSoft SPI on the Management Server”
- “De-installing the PeopleSoft SPI”

System Pre-Requisites

The HP Operations (HPO) management server must be installed and configured on the machine on which you want to install and use the PeopleSoft SPI. In this section, you can find information about the following topics:

- “Hardware Requirements” on page 23
- “Software Requirements” on page 24

For more information about which versions of HP Operations are supported, see “Supported Versions: HPO Server” on page 26. In addition, the HPO agent must be running on the HPO management server.

For more information about platform and version support, see “Supported Platforms and Versions” on page 25.

Hardware Requirements

Table 3-1 on page 23 lists the hardware requirements for the machines on which you intend to install the PeopleSoft SPI.

Table 3-1

PeopleSoft SPI Hardware Requirements

HPO Component	Additional Disk Space	Additional RAM
HPO Server	20MB	n/a
HPO Agent Windows	10MB	n/a
HPO Agent Unix	10MB	n/a

NOTE

Additional space is required for run-time data such as trace and error logs. The amount required depends on the configuration of the PeopleSoft SPI.

Software Requirements

You do not need to make any changes to operating-system kernel parameters before installing the Smart Plug-in for PeopleSoft on the HPO management server or on the HPO managed nodes.

Table 3-2 on page 24 lists the software products that the PeopleSoft SPI either requires or recommends.

Table 3-2 PeopleSoft SPI Software Requirements

Product	Status	Remarks
Smart Plug-in for Oracle, MS SQL Server or DB2	Required ^a	Needed for database access and database related metrics of the PeopleSoft SPI
Smart Plug-in for BEA WebLogic Server	Recommended ^b	Used for detailed WebLogic monitoring (not available on all platforms)
Smart Plug-ins DSI-to-DDF wrapper utilities	Required ^c	Needed for collecting performance data with HP Performance Agent or HP Software Embedded Performance Component
Smart Plug-ins for Windows	Required ^d	Needed for discovering process on Windows nodes

- a. Version 6.0 or higher is required for DBSPI. Version 03.20 or higher is required for DB2SPI.
- b. See the installation tips for the Smart Plug-in for BEA WebLogic Server in this SPI's documentation.
- c. This product is selected automatically during the installation process.
- d. Only for HPO 9.x Windows nodes.

Supported Platforms and Versions

The following sections indicate which platforms and which product versions are supported by the Smart Plug-in for PeopleSoft and its various components. The information in this section includes the following topics:

- “Supported Versions: PeopleTools” on page 25
- “Supported Versions: HPO Server” on page 26
- “Supported Platforms: HPO Agent” on page 26
- “Supported Platforms: Database-Server Components” on page 26
- “Supported Platforms: Web-Server Components” on page 26

NOTE

If a PeopleSoft server system fulfills multiple roles, for example; database server and batch server, the corresponding PeopleSoft SPI components may be used in parallel providing the system fulfills the specifications listed for both components. See the appropriate sections in the list above for more detail.

Supported Versions: PeopleTools

The PeopleSoft SPI is designed to run on all versions of PeopleSoft based on PeopleTools 8, using Tuxedo 8.1, 9.1, 10 which come bundled with PeopleTools. Specifically, the PeopleSoft SPI currently supports the PeopleTools releases: 8.44 - 8.50.

The PeopleSoft SPI assumes the following combinations - which are the default for a PeopleSoft installation:

- Tuxedo 8.1 with PeopleTools 8.44 up to 8.48
- Tuxedo 9.1 with PeopleTools 8.49
- Tuxedo 10 with PeopleTools 8.50

Supported Versions: HPO Server

The PeopleSoft SPI runs on the following software versions of the HPO management server:

- HPO 9.0 for UNIX
- HPO 9.0 for Linux

Supported Platforms: HPO Agent

The PeopleSoft SPI runs on the following supported HPO-agent platforms:

Note that not every combination is possible due to restrictions with PeopleTools, with HPO for UNIX/Linux, or requirements by other Smart Plug-ins.

Supported Platforms: Database-Server Components

The database-server components of the PeopleSoft SPI support PeopleTools installed on the following databases:

- Oracle
- MSSQL
- DB2

NOTE

The database versions that the PeopleSoft SPI supports depend on the versions supported by the DB-SPI (SPI for Oracle, SPI for MS SQL Server) and the DB2SPI (SPI for DB2).

Supported Platforms: Web-Server Components

The web-server components of the PeopleSoft SPI support the following web servers bundled with PeopleTools:

- Apache Webserver
- BEA WebLogic

Installing the PeopleSoft SPI on the Management Server

There are a number of simple steps that you need to carry out to install the Smart Plug-in for PeopleSoft software. In general terms, the process requires:

- “Removing the PeopleSoft SPI” on page 27
- “Installing the PeopleSoft SPI Software” on page 27
- “Verifying the Software Installation” on page 27
- “Update remactconf.xml File (HPO 9.x only)” on page 29

Removing the PeopleSoft SPI

You must remove any old versions of the HP Operations Smart Plug-in for PeopleSoft from the HPO managed nodes and the HPO Management Server before installing the new version. For versions 02.20 and earlier, see the *HP Operations Smart Plug-in for PeopleSoft Configuration Guide* that corresponds to the product version you are removing for more information. For the PeopleSoft SPI 02.30, see “De-installing the PeopleSoft SPI” on page 30.

Installing the PeopleSoft SPI Software

For information about installing Smart Plug-ins and integration packages see the Smart Plug-in HP Operations for UNIX/Linux SPI DVD-ROM installation guide.

Verifying the Software Installation

You can verify that the software installs successfully by carrying out the following simple steps:

1. Check the contents of the logfiles for installation errors and fix any problems that appear.
2. Make sure that the following new elements are present in the HPO GUI after the installation of the Smart Plug-in for PeopleSoft product completes.

Installing the PeopleSoft SPI on the Management Server

- **New node groups:**
 - PS App Server
 - PS Batch Server
 - PS Web Server
 - PS DB2 Server
 - PS ORA Server
 - PS Win MSS Server
 - **New tool application groups:**
 - PSSPI-Admin
 - PSoft-Admin
 - PSoft-Oper
 - PSoft-Reports
 - **New policy template groups:**
 - PSSPI-App_server
 - PSSPI-Batch_Server
 - PSSPI-DB2DB_server
 - PSSPI-OraDB_server
 - PSSPI-MSSDB_Server
 - PSSPI-Web_server
 - **New users in the HPO Users window:**
 - psoft_adm
 - psoft_op
 - **New profiles in the HPO Profiles window:**
 - psoft_adm_prf
 - psoft_op_prf
3. If the new PeopleSoft SPI elements are not visible in the HPO GUI, try stopping and restarting the HPO GUI.

4. If you installed one of the SPI for Database, SPI for BEA WebLogic Server or SPI for DB2, then please consult the installation guide of this SPI for further verification checks.

For more information on the various new elements see the appropriate sections in “Using the PeopleSoft SPI” on page 53 or “PeopleSoft SPI Components” on page 117.

Update remactconf.xml File (HPO 9.x only)

If you are running DCE-based agents on your managed nodes, the activation process can not start automatic actions on the management server without additional configuration steps.

- Create a new node group DCE.
- Assign the managed nodes with DCE type agents to this node group (you may only use the nodes which are relevant to the PeopleSoft SPI).
- On the management server, edit the file `/etc/opt/OV/share/conf/OpC/mgmt_sv/remactconf.xml` and add a new rule:

```
<rule>
<doc>Target node MgmtSrv OK if sender in DCE node group
and uncertified</doc>
<if>
<target><mgmtrsrv/></target>
<source><nodegroup>DCE</nodegroup></source>
<certified>>false</certified>
</if>
<allow/>
</rule>
```

De-installing the PeopleSoft SPI

To remove the Smart Plug-in for PeopleSoft, carry out the following high-level steps:

1. “De-installing from Managed PeopleSoft Systems”

Remove the PeopleSoft SPI components from the PeopleSoft systems (HPO managed nodes) and clean the system.

2. “De-installing from the HPO Management Server”

Remove the PeopleSoft SPI software from the HPO management server.

NOTE

Since HPO does not support automatic software removal from the command line, you have to remove manually both the HPO GUI integration and the components deployed on the HPO managed nodes.

De-installing from Managed PeopleSoft Systems

To remove the Smart Plug-in for PeopleSoft components from the HPO managed nodes:

1. De-assign the PeopleSoft SPI policies from the PeopleSoft systems:

- a. In the `Node Bank` window or the appropriate PeopleSoft SPI node group, remove any PeopleSoft systems from the `PSSPI` node groups.
- b. Distribute the *empty* template-assignment list to the selected PeopleSoft systems.

2. Execute the application `PSSPI Cleanup` (in the `PSSPI-Admin` application group) on the managed node where you want to de-install the PeopleSoft SPI. The `PSSPI Cleanup` application removes the local SPI components from the selected managed nodes.

The de-installation script `psspi_cleanup.pl` can also be called manually on the HPO managed node.

3. Cleanup the SPI for Database components, if appropriate, using the DBSPI Cleanup.

NOTE

This step should be performed only if the DBSPI is *not* required.

De-installing from the HPO Management Server

To remove the Smart Plug-in for PeopleSoft components from the HPO management server and complete the general clean up process:

1. Remove the PeopleSoft SPI software from the HPO management server.
2. Distribute the actions, command, and monitors to *all* PeopleSoft managed nodes: this remove all PeopleSoft SPI components.
3. Cleanup the GUI by removing the PeopleSoft-specific elements, such as:
 - Node Groups
 - Tools and Tool Groups
 - Message Groups
 - Policies
 - User and User Profiles
4. Remove PeopleSoft Services. On the HPO management server, enter:
`opcservice -remove -services PS_SPI`

Installing the PeopleSoft SPI
De-installing the PeopleSoft SPI

4 **Configuring the PeopleSoft SPI**

This section describes the steps you need to perform to set up and customize the Smart Plug-in for PeopleSoft.

Configuring the PeopleSoft SPI to Manage PeopleSoft Systems

Since several parts of a PeopleSoft installation such as the database name, directory locations, or user IDs vary from one environment to another, it is not possible to pre-configure the complete PeopleSoft SPI integration to work out-of-the-box in your environment. Consequently, assuming you have not already done so as part of the standard HPO installation, you will need to perform the following high-level steps to adapt the PeopleSoft SPI to the specific requirements of the PeopleSoft environment you want to monitor:

- “Setting up PeopleSoft Systems as HPO Nodes” on page 35
- “Distributing the HPO Agent to the PeopleSoft Systems” on page 36
- “Distributing PeopleSoft SPI Instrumentation” on page 37
- “Configuring the PeopleSoft SPI to Monitor the Database” on page 38
- “Discovering PeopleSoft Components on the Managed Nodes” on page 40
- “Assigning Nodes to Node Groups” on page 45
- “Distributing PeopleSoft SPI Policies” on page 46
- “Activating the Configuration on the PeopleSoft Nodes” on page 47
- “Setting up PeopleSoft Users” on page 48
- “Non-root Agent Support” on page 50

Setting up PeopleSoft Systems as HPO Nodes

If not already present, add to HPO as managed nodes the PeopleSoft systems in your environment that you want to monitor with the Smart Plug-in for PeopleSoft. To add a managed node to HPO, see the *HP Operations Administrator's Guide to Online Information*.

Distributing the HPO Agent to the PeopleSoft Systems

Check that the correct version of the HPO agent software is installed and running on the PeopleSoft node you want to set up and monitor with the PeopleSoft SPI. If no HPO agent is present, install the HPO agent software on the PeopleSoft systems by using the standard HPO agent distribution method. For more information about installing the HPO agent, see the *HP Operations Administrator's Guide to Online Information*.

NOTE

On Windows managed nodes, the HPO-agent user must be a PeopleSoft Administrator, that is: a user with the authority to start up or shut down Tuxedo domains and Process Schedulers using the `psadmin` tool.

On Windows managed nodes, if the HPO agent is configured to run under the LocalSystem account, the ability to start up or shut down Tuxedo domains and Process Schedulers cannot be tested using `psadmin`. In most of cases the LocalSystem user has appropriate rights. Otherwise reconfigure the HPO agent to run as the PeopleSoft Administrator.

Distributing PeopleSoft SPI Instrumentation

To distribute the PeopleSoft SPI instrumentation to the PeopleSoft systems which you want the PeopleSoft SPI to monitor, follow the HPO instructions for deploying instrumentation and deploy the following instrumentation packages:

- PSSPI
- SPI Data Collector

Configuring the PeopleSoft SPI to Monitor the Database

If you want the PeopleSoft SPI to monitor the PeopleSoft database server and gather database-related metrics, configure the database monitoring component for the PeopleSoft database server node and the PeopleSoft Process-Scheduler node. The configuration must be performed before discovery step.

NOTE

This configuration has to be performed using the tool which are installed with the Smart Plug-in for Databases or Smart Plug-in for DB2.

If Oracle is used as the PeopleSoft database, then the following rules apply for the configuration of the SPI for Oracle:

- The names of the PeopleSoft databases are configured as TNS names in the `tnsnames.ora` file. You can check this using the Oracle tool `tnsping` with the PeopleSoft database name as an argument. This applies to the database server, too. Note that this rule is required by the PeopleSoft Installation Guide.
- In the SPI for Oracle configuration, use the name of the PeopleSoft database as both the `DATABASE` and the `ALIAS` entry.

If MS SQL Server is used as the PeopleSoft database management system, then the following rules apply for the configuration of the SPI for MS SQL Server:

- Each PeopleSoft database name must appear as an ODBC data-source name. The name of the actual MSSQL database - which is configured in this ODBC data source - must be identical to the PeopleSoft database name. Note that this is required by the PeopleSoft Installation Guide.
- In the SPI for MSSQL Server configuration, use the name of the PeopleSoft database server as the only target description. Since the PeopleSoft databases are installed in the *default instance* of the MSSQL Server, the SPI for MSSQL Server does not need any further information to connect to the database server.

Special installation notes for the SPI for Databases

If you use the *Microsoft SQL Server* on the PeopleSoft database servers, note that versions 6, 7, and 8 of the *SPI for Microsoft SQL Server* have a problem if the MSSQL installation directory contains blank characters. If this is the case, the DBSPI cannot correctly locate the path to the `isql.exe/osql.exe` programs which are used to evaluate the special PeopleSoft SPI database metrics.

To work around this problem on the PeopleSoft database servers, compute the 8.3 name of the MSSQL installation directory and replace the registry key `HKLM\Software\Microsoft\Microsoft SQL Server\80\Tools\ClientSetup\SQLPath` with the new value.

IMPORTANT

If you have to enable the trace mode of the *SPI for Microsoft SQL Server* on the PeopleSoft database servers, note that versions 6, 7, and 8 of the *SPI for Microsoft SQL Server* cannot trace metric 3792 of the PeopleSoft SPI. This is due to a limitation in the trace buffer of the DBSPI. There is no work around; you cannot trace metric 3792.

Discovering PeopleSoft Components on the Managed Nodes

The PeopleSoft components installed on the PeopleSoft servers are discovered by starting the SPI tool `PS Discovery` on all PeopleSoft nodes.

NOTE

To perform this discovery step, the SPI instrumentation must be available on the PeopleSoft nodes. For more information, see “Distributing PeopleSoft SPI Instrumentation” on page 37

When the `PS Discovery` tool starts, it tries to discover information about the following areas:

- “The PeopleSoft Environment”
- “PeopleSoft Application Servers”
- “PeopleSoft Batch Servers”
- “PeopleSoft Web Server”
- “General Discovery Strategy and Prerequisites”

The PeopleSoft Environment

The `PS Discovery` tool tries to discover the following information concerning the PeopleSoft environment:

- “PeopleSoft Installation”
- “Database Type”
- “PeopleTools version”
- “Tuxedo Installation”
- “PeopleSoft database name”
- “Database home”
- “Database name”
- “PeopleSoft database owner”

- “Database server hostname”

PeopleSoft Installation

During the discovery phase, the PeopleSoft SPI first tries to determine the location of installed PeopleSoft components.

The PS Discovery can get several PS_CFG_HOME candidates via the -path options, or via the PS_CFG_HOME environment variable, or it also searches these “well-known” directories: /psoft, /opt/psoft, /usr/psoft.

NOTE

For PeopleTools 8.49 and earlier the PS_CFG_HOME is equal to PS_HOME.

In each PS_CFG_HOME candidate directory it tries to find any of these files:

- PS_CFG_HOME/peopletools.properties
- PS_CFG_HOME/appserv/*/psappsrv.cfg
- PS_CFG_HOME/appserv/prcs*/psprcs.cfg

Database Type

The database type (DB_TYPE) can be ORACLE, MSSQL and DB2. Although no error is generated for other database types, there is no monitoring available for them.

PeopleTools version

The discovery process for the PeopleTools version (PS_VER) includes the following steps:

1. User-specified version:

If the user has specified PeopleSoft version using the parameters string (-ver *version*) assume this value for the PS_VER variable. It is important not to confuse the PeopleTools version with the PeopleTools application version.

2. Switch user to PS_USER and run 'psadmin -v' (Unix):

If PS_USER has an interactive login, use option -ver *version* to specify the PeopleTools version.

3. Extract version information from the peopletools.properties file.

Although PeopleSoft does not require this file to function correctly, it is not recommended to delete it.

4. If all previous steps failed to determine the version of PeopleSoft installed on the managed node, assume 8.44 as the default version.

Tuxedo Installation

The `TUXDIR` can be set via the `-td` option. If the option is omitted, then the tool uses the following methods.

For Unix operating systems, the PeopleSoft SPI determines the value of the `TUXDIR` variable by searching the following files:

- `<PS_HOME>/psconfig.sh`
- `<PS_HOME>/install/psdb.sh`
- `<PS_HOME>/setup/psdb.sh`

For Microsoft Windows operating systems, the PeopleSoft SPI tries to determine the value for the variable `TUXDIR` automatically, from the environment.

PeopleSoft database name

The `psspi_disc.pl` retrieves the database name (`PS_DBNAME`) from either the `psappsrv.cfg` or the `psprcs.cfg` file.

Database home

For Oracle databases, the PeopleSoft SPI takes the value from configuration file of Oracle SPI.

Database name

The PeopleSoft SPI sends `DB_NAME` to the external collectors as a parameter. External collectors are provided by Smart Plug-ins for Oracle, MSSQL or DB2. For Oracle database servers, the `DB_NAME` is the same as `PSDB_NAME`. For MSSQL servers, the `DB_NAME` is a server name. For DB2 servers, the `DB_NAME` is an instance name.

PeopleSoft database owner

The owner of the PeopleSoft database is defined in PS_DBOWNER. This value is required only for Oracle database servers. The DBSPI UDM feature extracts the OWNERID from the PS.PSDBOWNER table for DBNAME=PS_DBNAME. Note that the Smart Plug-in for Oracle must be configured for this step.

Database server hostname

For Oracle database servers, the file `tnsnames.ora` is used to determine the value of the Oracle server hostname (DB_SERVER).

For DB2, the commands 'db2 list database directory' and 'db2 list node directory' are executed.

For MSSQL, the registry key ODBC.INI is analyzed.

PeopleSoft Application Servers

The PS Discovery tool tries to determine values for all application servers running in the PeopleSoft environment that you want to monitor with the PeopleSoft SPI.

All directories `<PS_CFG_HOME>/appserv/<Domain>` are searched for the file `psappsrv.cfg`. If the directory and file exist, the PeopleSoft SPI extracts the variables `Domain ID` and `Log Directory` from the application-server configuration file.

PeopleSoft Batch Servers

The PS Discovery tool tries to determine values for all process schedulers in the PeopleSoft installation you want to monitor with the PeopleSoft SPI. The discovery tool searches the following directories for the process-scheduler configuration file `psprcs.cfg`:

- PS 8.4x: `<PS_HOME>/appserv/prcs/<DB>`
- PS 8.50: `<PS_CFG_HOME>/appserv/prcs/<DB>`

If the directory and file are found, the SPI extracts the following variables from the process-scheduler configuration file:

- `PrcsServerName`
- `Log/Output Directory`

PeopleSoft Web Server

The PS Discovery tool tries to determine values for all Web Servers in the PeopleSoft environment that you want to monitor with the PeopleSoft SPI. The `psspi_disc.pl` script supports only bundled Weblogic web server. It analyzes the directory `<PS_HOME>/webserv` and determines the type of web server and the domain name.

General Discovery Strategy and Prerequisites

The PeopleSoft SPI writes the information found during the discovery phase to the `psspi.disc` file on the HPO agent. If the PeopleSoft SPI is not able to determine all PeopleSoft components automatically, you can use a text editor on the managed node to edit the `psspi.disc` file manually. After editing the file, verify the changes using the `PSSPI-Admin:Verify PS Cfg` application. For more information about the syntax required in the `psspi.disc` file, see “The `psspi.disc` Configuration File” on page 113.

NOTE

Before you use any of the PeopleSoft SPI tools, you have to distribute the PeopleSoft SPI instrumentation to the managed node.

Assigning Nodes to Node Groups

Follow the instructions generated by the `PS Discovery` tool and use the information displayed to put the PeopleSoft nodes into the node groups suggested. For example, PeopleSoft batch servers go into the `PS Batch Server` node group.

NOTE

Web servers other than WebLogic, which are bundled with PeopleTools 8 should not be assigned to the PeopleSoft SPI `PS Web Server` node group. Those web-server systems should be assigned to the node groups which are installed by the Smart Plug-in monitoring this webserver, for example: Smart Plug-in for IBM WebSphere server.

Distributing PeopleSoft SPI Policies

The PeopleSoft SPI policies are organized into specific policy groups according to system role: PeopleSoft database, application, web or batch-server systems. Assigning the PeopleSoft nodes to the PeopleSoft node groups recommended by the *PS Discovery* tool automatically assigns the appropriate PeopleSoft SPI policies: the PeopleSoft policy groups and, by implication, their contents, are assigned by default to the PeopleSoft node groups. However, the PeopleSoft policies still need to be distributed to the PeopleSoft server systems (now HPO managed nodes) using the standard HPO distribution mechanism.

Activating the Configuration on the PeopleSoft Nodes

Verify that the discovered information is correct and, if so, activate the configuration for the discovered components using the `PS Activate` application. The `PS Activate` application activates the information discovered by the `PS Discovery` application and stored in the file `psspi.disc` on the PeopleSoft system by copying it to `<HPOAgentInstallDir>/psspi/conf/ps.cfg` and making it available to the SPI instrumentation scripts. Note that this operation may take some time to complete.

The `PS Activate` application also performs the following steps:

- Prepares UDM files
- Creates integration files for CODA/Performance Agent.
- Activates application definitions for Performance Manager (*Unix managed nodes only*)
- Sends configuration file `ps.cfg` to HPO management server.
- Prepares Tuxedo collector files (*Unix managed nodes only*).

Setting up PeopleSoft Users

The HP Operations Smart Plug-in for PeopleSoft comes with two, new, pre-configured HPO users covering operational and administrative roles in the PeopleSoft environment. These new users are responsible for a set of pre-configured PeopleSoft-specific node and message groups and have the following default names:

Table 4-1 **Default PeopleSoft SPI users**

User name	Password	Description
psoft_admin	Psoft_admin	PeopleSoft environment administrator
psoft_op	Psoft_op	PeopleSoft environment operator

Each of these two users has a set of pre-configured tools assigned. The pre-configured users themselves as well as their default configuration can be used either “as is” or as a basis for a model user in your working environment. In addition, the following pre-defined User Profiles for this purpose:

- psoft_admin_prf
- psoft_admin_op

User Profiles simplify user management by allowing you to create a hierarchical set of abstract users each with a default configuration, which you can assign at any time to any of the real operators you are setting up. For more information on User Profiles, see the HP Operations 08.10 product documentation.

Table 4-2 lists the application groups assigned by default to the PeopleSoft administrator and operator within HPO.

Table 4-2 **Default PeopleSoft Application-Group Assignment**

Application Group	PeopleSoft Administrator	PeopleSoft Operator
PSSPI-Admin	X	
PSoft-Admin	X	

Table 4-2 Default PeopleSoft Application-Group Assignment (Continued)

Application Group	PeopleSoft Administrator	PeopleSoft Operator
PSoft-Oper	X	X
PSoft-Reports	X	X

The PeopleSoft Message groups listed in Table 4-3 are associated by default with the PeopleSoft node groups.

Table 4-3 Default PeopleSoft Message-Group Assignment

Message Group	PeopleSoft Administrator	PeopleSoft Operator
PSoft-Fault	X	X
PSoft-Perf	X	X
PSSPI	X	X

Non-root Agent Support

This step applies to managed nodes hosting UNIX operating systems, only. If you use the `ovswitchuser` command to configure the agent to run as a non-root user, you must perform additional steps on the HPO managed node. The same steps are required if the PeopleSoft SPI is installed on an HPO managed node where the agent is already running under a non-root user account.

NOTE

For managed nodes where the HPO agent is already running as a non-root user, you should perform these steps instead of discovery steps described in the section “Discovering PeopleSoft Components on the Managed Nodes” on page 40.

The script `psspi_root.pl` starts the discovery process and all options specified for `psspi_root.pl` will be redirected to `psspi_disc.pl`.

NOTE

If the discovery must be restarted on the node where the HPO agent is already running as a non-root user, at first remove the file `psspi.disc` in `PSSPI_CONF_DIR` (`/var/opt/OV/psspi/conf` on HP-UX).

To configure the PeopleSoft SPI to run as a non-root user:

1. Login as user `root` to the HPO managed node.
2. Locate the `psspi_root.pl` command; by default, the command resides in the directory: `<HPO_CMDS>`
3. On the command line, enter: `./psspi_perl psspi_root.pl`

The script `psspi_root.pl` creates the `psspi` directory structure on the HPO managed node if it does not exist yet and changes group and permissions for `psspi` directories and files. Group becomes the agent group, permissions – 0664 for files and 02775 for folders. If the Tuxedo collectors files `psspi_tuxcoa*` are located in the `PSSPI_BIN_DIR` (`/var/opt/OV/psspi/bin` on HP-UX), then they get permissions 0775, so that the PeopleSoft user can execute them.

The `psspi_root.pl` copies the file `psspi_sudo` from `HPO_CMDS` to `PSSPI_BIN_DIR` and sets owner `root` for this binary and `suid` bit `04750`.

4. Edit `/etc/psspi.su` file to add allowed PeopleSoft users.

The non-root agent user (any user from the agent group) can switch to any user in the `/etc/psspi.su` and execute any commands on behalf of it.

5

Using the PeopleSoft SPI

This section describes the components installed by the Smart Plug-in for PeopleSoft and how to start using them.

In this Section

This section describes the components installed by the Smart Plug-in for PeopleSoft and how to start using them. The information in this section covers the following topics:

- “The PeopleSoft SPI Managed-Node Groups”
- “The PeopleSoft SPI Tools Groups”
- “The PeopleSoft SPI Users”
- “The PeopleSoft SPI Policies”
- “PeopleSoft SPI Policies on Cluster Nodes”
- “Using the HP Performance Agent”

Introduction

If you are already familiar with HP Operations, you will notice that the installation and configuration of the Smart Plug-in for PeopleSoft adds a number of new pre-configured components to the GUI, specifically to the Node Group and Message Group windows, as well as the User Bank and Tool Bank.

A set of new, pre-configured node groups allow you to organize your PeopleSoft systems within HPO according to their function; that is, Application Server, Batch Server, Web Server or Database Server. For more information about the new node groups and the new users, see “The PeopleSoft SPI Managed-Node Groups” on page 56 and “The PeopleSoft SPI Users” on page 68.

The PeopleSoft SPI also provides a large number of tools that are conveniently organized into groups and specifically designed to help you take advantage of the powerful problem-solving capabilities of HPO to automate the control and management of problems arising in the PeopleSoft environment. For more information about which new tools are available in the Smart Plug-in for PeopleSoft, see “The PeopleSoft SPI Tools Groups” on page 57.

However, perhaps the most important component of the Smart Plug-in for PeopleSoft are the new PeopleSoft-specific policies. These policies are aimed at helping you extract the most useful information as easily as possible and, as a result, allowing you to concentrate resources on the monitoring of those critical aspects of the PeopleSoft systems that are necessary to keep the systems up and running. For more information on which new policies are available, see “The PeopleSoft SPI Policies” on page 70.

The PeopleSoft SPI Managed-Node Groups

The following HPO node groups are installed as part of the PeopleSoft SPI. Note that, initially, they are empty, that is: no nodes are assigned to the new node groups:

- PS App Server
- PS Batch Server
- PS DB2 Server
- PS ORA Server
- PS Web Server
- PS Win MSS Server

The installation of the PeopleSoft SPI assigns all pre-defined PeopleSoft SPI node groups by default to pre-defined PeopleSoft user roles, which are delivered with the PeopleSoft SPI. Setup also assigns different policy groups by default to the corresponding PeopleSoft SPI node groups.

The PeopleSoft SPI Tools Groups

After the successful installation of the Smart Plug-in for PeopleSoft, a number of new PeopleSoft SPI tool groups appear in the top-level PSSPI tool group.

The following list describes in general terms what the scope of the new PeopleSoft tools groups are:

- “The PSSPI-Admin Tools Group”
PSSPI-Admin contains tools intended for HPO administrators that are working on PeopleSoft SPI administration.
- “The PSoft-Admin Tools Group”
PSoft-Admin contains tools intended for HPO users working in administrative mode in the PeopleSoft environment.
- “The PSoft-Oper Tools Group”
PSoft-Oper contains tools intended for HPO users working in operational mode in the PeopleSoft environment.
- “The PSoft-Reports Tools Group”
PSoft-Reports contains tools intended for HPO users working in information retrieval mode.

The sections that follow describe the individual PeopleSoft tool groups in more detail, list the tools that the groups contain, and explain what the various tools do. Note that the tools listed will only work in the manner described if the Smart Plug-in for PeopleSoft is running and correctly configured on *both* the HPO management server *and* the PeopleSoft systems you want the PeopleSoft SPI to monitor.

The PSSPI-Admin Tools Group

The PSSPI-Admin tool group contains tools intended for HPO administrators who are working specifically on PeopleSoft SPI administration. The tools are started as agent user and either can or must be used when installing, configuring, operating, and troubleshooting the PeopleSoft SPI.

Table 5-1 on page 58 lists the tools in the PSSPI-Admin tool group, describes briefly what the each tools does, and indicates the command call used by the tool.

Table 5-1 PSSPI-Admin Tools

Tool Name	Description
Activate PS Services	Activates the generated service model for the default HPO user roles PeopleSoft Admin and PeopleSoft User. Uses the command: <code>psspi_actsvc.pl</code>
Build PS Services	Builds a service model for PeopleSoft environment from discovered information. Uses the command: <code>psspi_bldsvc.pl</code>
Get PS Cfg	Retrieves the discovery file from the selected managed nodes and stores them on the HPO management server. Use this tool if you have modified the discovery file manually on the managed node. Uses the command: <code>psspi_spicl.pl getps</code>
PS Activate	Activates the discovered PeopleSoft components and creates a <code>ps.cfg</code> file on the selected system. This action also copies the discovery information from the managed node to the management server Uses the command: <code>psspi_act.pl</code> .
PS Discovery	Discovers PeopleSoft components on the nodes you have selected. Uses the command: <code>psspi_disc.pl</code>
PSSPI Cleanup	Removes all files and persistent information pertaining to the PeopleSoft SPI on the selected node. Uses the command: <code>psspi_cleanup.pl</code>
PSSPI Off	Switches <i>OFF</i> the monitoring components of the PSSPI on the selected node. Uses the command: <code>psspi_spicl.pl setcfg COLLECTION FALSE</code>

Table 5-1 PSSPI-Admin Tools (Continued)

Tool Name	Description
PSSPI On	Switches <i>ON</i> the monitoring components of the PSSPI on the selected node. Uses the command: <code>psspi_spicl.pl setcfg COLLECTION TRUE</code>
PSSPI Trace AUTO	Switches to mode <i>AUTO</i> the generation of trace information from the PSSPI components (except database metrics) on the selected node. Uses the command: <code>psspi_spicl.pl setcfg TRACE_LEVEL AUTO</code>
PSSPI Trace Off	Switches <i>OFF</i> the generation of trace information from the PSSPI components (except database metrics) on the selected node. Uses the command: <code>psspi_spicl.pl setcfg TRACE_LEVEL 0</code>
PSSPI Trace On	Switches <i>ON</i> the generation of trace information from the PSSPI components (except database metrics) for the selected node. Uses the command: <code>psspi_spicl.pl setcfg TRACE_LEVEL 2</code>
Self-Healing Info	Collects troubleshooting data. Uses the command <code>psspi_shs.pl -standalone</code>
Verify Node Inst	Checks the installation of the PSSPI on the HPO <i>managed node</i> is correct and uses the findings to generate a report for the selected node. Uses the command: <code>psspi_verify.pl -n</code>

Table 5-1 PSSPI-Admin Tools (Continued)

Tool Name	Description
Verify PS Cfg	<p>Verifies that the configuration of the managed PeopleSoft components in the <code>ps.cfg</code> file reflects the PeopleSoft environment on the node, and uses the findings to generate a report for the selected node. Uses the command:</p> <pre>psspi_verify.pl -d</pre>
Verify PSSPI Com	<p>Verifies that the communication between managed node and management server is working correctly for PeopleSoft messages, and generates a report about the results for the selected node. Uses the command:</p> <pre>psspi_verify.pl -c</pre>
Verify PS Srv	<p>Verifies that the installation of the PSSPI on the HPO <i>management server</i> is correct then uses the findings to generate a report. Uses the command:</p> <pre>psspi_verify.pl -s</pre>
View PS Cfg	<p>Displays the PeopleSoft configuration file <code>psspi.disc</code>, which lists the managed PeopleSoft components for the selected node. Uses the command:</p> <pre>psspi_spicl.pl pscfg -d</pre>
View PSSPI Cfg	<p>Displays the PSSPI configuration file <code>psspi.cfg</code>, which contains settings for tracing for the selected node. Uses the command:</p> <pre>psspi_spicl.pl spicfg -d</pre>
View PSSPI Error	<p>Displays the contents of the PSSPI error log file on the selected node. Uses the command:</p> <pre>psspi_spicl.pl spilog</pre>

Table 5-1 PSSPI-Admin Tools (Continued)

Tool Name	Description
View PSSPI Trace	Displays the contents of the PSSPI trace file on the selected node. Uses the command: <pre>psspi_spicl.pl spitrc</pre>

The PSoft-Admin Tools Group

This group contains tools intended for HPO users working in administrative mode. These users are allowed to configure or tune the PeopleSoft environment. The tools can also be used to perform administrative tasks in the PeopleSoft environment.

NOTE

All tools in the PSoft-Admin tools group run under the agent_user account.

Table 5-2 on page 61 lists in alphabetical order the various tools in the PSoft-Admin tool group, indicates which function is called by each tool, and shows and which PeopleSoft interface is used.

Table 5-2 PSoft-Admin Tools

Tool Name	Description
Unload TX Conf	Displays the current Tuxedo configuration for a PeopleSoft domain. If necessary, users are prompted to select a PeopleSoft domain, for which the configuration will be displayed. Using additional argument -a will work on all domains, whereas additional argument -d <i>domain</i> will work on the specified domain only. Uses the command: <pre>psspi_tmcl.pl tmunloadc -f</pre>

Table 5-2 PSoft-Admin Tools (Continued)

Tool Name	Description
View PRCS Config	Displays the contents of the PeopleSoft process scheduler configuration file. The function accepts the same options for the selection of the process scheduler as Start Proc Sched in the PSoft-Oper tool group. Uses the command: <code>psspi_pspt.pl viewcfg</code>

The PSoft-Oper Tools Group

This group contains tools intended for HPO users working in operational mode. These users are responsible for resolving problems that occur within the PeopleSoft environment and are reported by HPO messages. The tools can be used to perform operational tasks on the PeopleSoft environment such as restarting servers.

NOTE

All tools in the PSoft-Oper tools group are started run under the agent-user account.

Table 5-3 on page 62 lists in alphabetical order the various tools in the PSoft-Oper tool group, describes briefly how the individual tool works, and indicates which function is called by each tool and which PeopleSoft interface is used.

Table 5-3 PSoft-Oper Tools

Tool Name	Description
Boot Adm Servers	Boot PS administration servers for all domains (i.e. Tuxedo infrastructure processes like BBL). Command: <code>psspi_tmcl.pl tmboot -A</code>

Table 5-3 PSoft-Oper Tools (Continued)

Tool Name	Description
Boot Appl Servers	<p>Boot PS application servers for all domains (e.g. PeopleSoft- specific server processes like PSAPPSRV, PSQCKSRV). Command:</p> <pre>psspi_tmcl.pl tmboot -S</pre>
Boot PS Domain	<p>Boots a PS domain (both administration and application servers). Domain must be specified by additional arguments using <i>-d domain</i>. Command:</p> <pre>psspi_tmcl.pl tmboot</pre>
File Systems	<p>Displays statistics on file systems and their usage. Command:</p> <pre>psspi_df.pl</pre>
IPC Cleanup	<p>Purges the current IPC resources for a specific PeopleSoft installation. (Only Unix managed nodes). Command:</p> <pre>psspi_ipcs.pl -d</pre>
IPC Current	<p>Displays the current IPC resource statistics. (Only Unix managed nodes). Command:</p> <pre>psspi_ipcs.pl</pre>
IPC Needed	<p>Displays the IPC resources needed to boot an additional PS domain. (Only Unix managed nodes). Command:</p> <pre>psspi_tmcl.pl tmboot -c</pre>

Table 5-3 PSoft-Oper Tools (Continued)

Tool Name	Description
Restart PS Domain	<p>Shuts down and reboots a PS domain (both administration and application servers). The domain must be specified by additional arguments using <code>-d domain</code>. Command:</p> <pre>psspi_tmcl.pl domrestart</pre>
Shutd. PS Domain	<p>Shuts down a PS domain. The domain must be specified by additional arguments using <code>-d domain</code>. Command:</p> <pre>psspi_tmcl.pl tmshutdown</pre>
Shutd. Adm Servers	<p>Shuts down all the PS administration servers. Command:</p> <pre>psspi_tmcl.pl tmshutdown -A</pre>
Shutd. Appl Servers	<p>Shuts down all the PS application servers. Command:</p> <pre>psspi_tmcl.pl tmshutdown -S</pre>
Start Proc Sched	<p>Starts a process scheduler process. By default - all process schedulers. Database can be specified by additional arguments using <code>-d DB</code>. Command:</p> <pre>psspi_pspt.pl start</pre>
Stop Proc Sched	<p>Stops a process scheduler process and accepts the same options as Start Proc Sched. Command:</p> <pre>psspi_pspt.pl stop</pre>
View APPSRV.LOG	<p>Displays the contents of the APPSRV.LOG log file of a PS domain. Command:</p> <pre>psspi_tmcl.pl viewlog -p</pre>

Table 5-3 PSoft-Oper Tools (Continued)

Tool Name	Description
View PRCS Log	Displays the contents of the latest process-scheduler log file. Command: <code>psspi_pspt.pl viewlog</code>
View TUXLOG	Displays the contents of the latest Tuxedo log file of a PS domain. Command: <code>psspi_tmcl.pl viewlog -t</code>

The PSoft-Reports Tools Group

This PSoft-Reports tools group contains tools intended for HPO users working in information-retrieval mode. The tools are granted read-only rights and may be used to create reports on the PeopleSoft environment. All tools are started as agent user.

Table 5-4 on page 65 lists in alphabetical order the various tools in the PSoft-Reports tool group, indicates which function is called by each tool, and shows which PeopleSoft interface is used.

Table 5-4 PSoft-Reports Tools

Tool Name	Description
PS Connections	For Oracle databases, it generates a report on the number and origin of 2-tier connections to the PeopleSoft database. For MSSQL server, it lists the currently active connections to the PS database. For DB2 database, it returns the number of current connections to the database. Command: <code>psspi_dbcax.pl -report_on_all_DB -r 1 -m 793</code>

Table 5-4 PSof-Reports Tools (Continued)

Tool Name	Description
PS Job Status	<p>Generates a report on the status of all PeopleSoft batch jobs on the selected node. Command:</p> <pre>psspi_dbcax.pl -report_on_all_DB -r 2 -m 792</pre>
PS Status	<p>Generates a status report on all PeopleSoft components on the selected node. Command:</p> <pre>psspi_inst.pl status</pre>
PS Worklist Status	<p>Generates a report on the status of the entries in the PeopleSoft worklist table. Command:</p> <pre>psspi_dbcax.pl -report_on_all_DB -r 2 -m 795</pre>
PS/TX Versions	<p>Generates a report on the PeopleSoft/Tuxedo software version on the selected node. Command:</p> <pre>psspi_inst.pl version</pre>
Proc Sched Status	<p>Generates a status report on the PeopleSoft process scheduler. All valid options for the pspt command may be used. Command:</p> <pre>psspi_pspt.pl status</pre>
TX Client Status	<p>Generates a report with information on the current PeopleSoft user activity. Command:</p> <pre>psspi_tmcl.pl tmadmin -I pclt</pre>
TX Queue Status	<p>Generates a status report on the current PeopleSoft queues. Command:</p> <pre>psspi_tmcl tmadmin.pl -I pq</pre>

Table 5-4 PSoft-Reports Tools (Continued)

Tool Name	Description
TX Server Status	Generates a status report on the current PeopleSoft servers. Command: <code>psspi_tmcl.pl tadmin -I psr</code>

The PeopleSoft SPI Users

After the successful installation of the HP Operations Smart Plug-in for PeopleSoft, the following new HPO users appear in the `User Bank` window:

- `psoft_adm` is responsible for the administrative aspects of the PeopleSoft environment
- `psoft_op` is responsible for monitoring the operational aspects of the PeopleSoft environment

Table 5-5 on page 68 shows at a glance which new components of the Smart Plug-in for PeopleSoft are assigned by default to which new user. These assignments can easily be reviewed and, where necessary, modified using standard HPO tools.

Table 5-5 **Default User Assignments**

New Component		<code>psoft_adm</code>	<code>psoft_op</code>
Node Group	PS App Server	✓	✓
	PS Batch Server	✓	✓
	PS DB2 Server	✓	✓
	PS ORA Server		
	PS Win MSS Server		
	PS Web Server	✓	✓
Tool Group	PSSPI-Admin	✓	
	PSoft-Admin	✓	
	PSoft-Oper	✓	✓
	PSoft-Reports	✓	✓

Alternatively, you can review and modify one of the two default User Profiles provided with the HP Operations Smart Plug-in for PeopleSoft products `SPI-PSoft` and which appear in the `OVO User Profile Bank` window:

- psoft_adm_prf
- psoft_op_prf

For more information about User Profiles in general, see the HPO documentation and specifically the section on User Profiles in the *HP Operations Concepts Guide*.

The PeopleSoft SPI Policies

The Smart Plug-in for PeopleSoft installs a number of new policy groups which contain all the policies you need to manage the PeopleSoft environment. The following policygroups are installed by the PeopleSoft SPI and are explained in greater detail in the individual sections that follow:

- “The PSSPI-App_Server Policy Group” on page 71
- “The PSSPI-Batch_Server Policy Group” on page 73
- “The PSSPI-DB2DB_Server Policy Group” on page 73
- “The PSSPI-MSSDB_Server Policy Group” on page 74
- “The PSSPI-OraDB_Server Policy Group” on page 75
- “The PSSPI-Web_Server Policy Group” on page 78

For a complete list of all the policies which the PeopleSoft SPI installs, see “The Policy Repository” on page 119. For more information about the scripts which the policies and PeopleSoft SPI monitors use, see “Policies” on page 118.

CAUTION

You must not assign the top-level SPI for PeopleSoft policy group to a node or node group: the SPI for PeopleSoft policy group is a container for the other PeopleSoft-specific policy groups.

For example, the PeopleSoft server processes can be monitored using a pre-defined process monitor provided as part of the PeopleSoft SPI. In addition the PeopleSoft server log files can be monitored with log-file policy. The policies and policy groups have to be deployed using the standard HPO mechanisms. For more information on assigning and deploying templates in HPO, see “Distributing PeopleSoft SPI Policies” on page HIDDEN.

NOTE

Note that only one of either the policy group `PSSPI-MSSDB_Server`, `PSSPI-DB2DB_Server` or `PSSPI-OraDB_Server` can be assigned to a single node. Which policy group is to be used depends on the database server used on this system for the PeopleSoft databases.

The PSSPI-App_Server Policy Group

Table 5-6 on page 71 lists the policies in the `PSSPI-App_Server` policy group, indicates each policy type, and describes briefly what the policy monitors. For more information about what, if any, commands the policies call, see “The Policy Repository” on page 119.

On Windows managed nodes PeopleSoft SPI can monitor Tuxedo domains (Application server) only if the HPO agent user has administrative rights for the Tuxedo domain. To check the permissions granted to all users except `LocalSystem`, use the `psadmin` tool. The HPO agent user must be able to start up and shut down the Tuxedo domain using this tool.

Table 5-6 PSSPI-App_Server Policies

Policy Type	Policy Name	Description
Logfile	<code>PSSPI-AppSrvCfgFiles</code>	Monitors changes to the application-server configuration file, <code>psappsrv.cfg</code> .
	<code>PSSPI-AppSrvLogFiles</code>	Monitors the application- server log file, <code>APPSRV.LOG</code> , for each PeopleSoft domain.
	<code>PSSPI-OwnLogA</code>	Monitors the <code>psspi.log</code> log file on a managed node.
	<code>PSSPI-TUXLogFiles</code>	Monitors the <code>TUXLOG.<date></code> log files for each PeopleSoft domain.
Message	<code>PSSPI-Messages</code>	Intercepts messages from the PeopleSoft SPI programs.

Table 5-6 PSSPI-App_Server Policies (Continued)

Policy Type	Policy Name	Description
Monitor	PSSPI-AppSrvLogSize	Monitors the application-server log directory for the amount of disk space consumed by the APPSRV.LOG and TUXLOG.<date> files.
	PSSPI-TMIB-001	Monitors the status of the Tuxedo domains of a PeopleSoft application server
	PSSPI-TMIB-002	Monitors the status of the Tuxedo machine
	PSSPI-TMIB-003	Monitors the status of the Tuxedo server group: APPSRV
	PSSPI-TMIB-004	Monitors the status of the Tuxedo server group: BASE
	PSSPI-TMIB-005	Monitors the current number of APPSRV server processes and compares the reported value with TA_MIN
	PSSPI-TMIB-006	Monitors the actual number of APPSRV server processes and compares it with TA_MAX
	PSSPI-TMIB-007	Monitors the generation number TA_MAXGEN - TA_GENERATION
	PSSPI-TMIB-008	Monitors the actual (absolute) number of APPSRV processes.
	PSSPI-TMIB-010	Monitors the number of 3-tier connections.
Schedule	PSSPI-TMIB-Col-05m	Runs the TMIB collector process to gather Tuxedo metrics every 5 mins.

The PSSPI-Batch_Server Policy Group

Table 5-7 on page 73 lists the policies in the PSSPI-Batch_Server policy group, indicates each policy type, and gives a brief description of what the policies monitor. For more information about what, if any, commands the policies call, see “The Policy Repository” on page 119..

Table 5-7 PSSPI-Batch_Server Policies

Policy Type	Policy Name	Description
Logfile	PSSPI-PrCsLogFiles	Monitors the PeopleSoft process-scheduler log files.
	PSSPI-PrCsAppSrvLogFiles	Monitors the log file APPSRV_<DATE>.LOG for each process scheduler.
	PSSPI-OwnLogA	Monitors the psspi.log log file on a managed node.
Message	PSSPI-Messages	Intercepts messages from the PeopleSoft SPI programs
Monitor	PSSPI-PrCsLogSize	Monitors the size of the process-scheduler log directory and the disk space consumed by the process scheduler log files.
	PSSPI-PrCsMon	Monitors the existence of the process-scheduler process.
	PSSPI-PrCsMon-STAT	Monitors the existence of PSDSTSRV, the additional process-scheduler process.

The PSSPI-DB2DB_Server Policy Group

Table 5-8 on page 74 lists the policies in the PSSPI-DB2DB_Server policy group, indicates each policy type, and gives a brief description of what the policy monitors.

NOTE The policies in the PSSPI-DB2DB_Server policy group are intended for PeopleSoft database servers running the DB2 database.

For more information about what, if any, commands the policies call, see “The Policy Repository” on page 119.

Table 5-8 PSSPI-DB2DB_Server Policies

Policy Type	Policy Name	Description
Logfile	PSSPI-DB_LogFile	Monitors the database server log table, PS_MESSAGE_LOGPARM. For more information, see “The PSSPI-DB_LogFile Policy” on page 77.
	PSSPI-OwnLogA	Monitors the psspi.log log file on a managed node.
Message	PSSPI-Messages	Intercepts messages from the PeopleSoft SPI programs
Monitor	PSSPI-DB2SPI-4792	Number of queue jobs.
	PSSPI-DB2SPI-4793	Number of database connections
	PSSPI-PracsJobTab	Checks the process-scheduler table and the job-table entries.
	PSSPI-WorkList	Checks the PeopleSoft work-list table
Schedule	PSSPI-DB2-Col-05min	Runs the DBSPI or DB2SPI collector process to gather database metrics every 5 minutes

The PSSPI-MSSDB_Server Policy Group

Table 5-9 on page 75 lists the policies in the PSSPI-MSSDB_Server policy group, indicates each policy type, and gives a brief description of what the policy monitors. For more information about what, if any, commands the policies call, see “The Policy Repository” on page 119.

NOTE The policies in the PSSPI-MSSDB_Server policy group are intended for PeopleSoft database servers running the Microsoft SQL Server RDBMS.

Table 5-9 PSSPI-MSSDB_Server Policies

Policy Type	Policy Name	Description
Logfile	PSSPI-DB_LogFile	Monitors the database server log table, PS_MESSAGE_LOGPARM. For more information, see “The PSSPI-DB_LogFile Policy” on page 77.
	PSSPI-OwnLogA	Monitors the psspi.log log file on a managed node.
Message	PSSPI-Messages	Intercepts messages from the PeopleSoft SPI programs
Monitor	PSSPI-DBSPI-3791	Number of employees in the PeopleSoft database.
	PSSPI-DBSPI-3792	Number of queue jobs.
	PSSPI-DBSPI-3793	Number of database connections
	PSSPI-PracsJobTab	Checks the process-scheduler table and the job-table entries
	PSSPI-WorkList	Checks the PeopleSoft work-list table
Schedule	PSSPI-MSSQL-Col-05min	Runs the DBSPI collector process to gather DB metrics every 5 minutes.

The PSSPI-OraDB_Server Policy Group

Table 5-10 on page 76 lists the policies in the PSSPI-OraDB_Server policy group, indicates each policy type, and gives a brief description of what is monitored. For more information about what, if any, commands the policies call, see “The Policy Repository” on page 119.

NOTE The policies in the PSSPI-OraDB_Server policy group are intended for use with PeopleSoft database servers running the Oracle RDBMS.

Table 5-10 PSSPI-OraDB_Server Policies

Policy Type	Policy Name	Description
Logfile	PSSPI-DB_LogFile	Monitors the database server log table, PS_MESSAGE_LOGPARM. For more information, see “The PSSPI-DB_LogFile Policy” on page 77.
	PSSPI-OwnLogA	Monitors the psspi.log log file on a managed node.
Message	PSSPI-Messages	Intercepts messages from the PeopleSoft SPI programs
Monitor	PSSPI-DBSPI-0791	Number of employees in the PeopleSoft database.
	PSSPI-DBSPI-0792	Number of queue jobs.
	PSSPI-DBSPI-0793	Number of 2-tier client connections: i.e. the number of clients working in 2-tier mode.
	PSSPI-PrsJobTab	Checks the process-scheduler table and the job-table entries
	PSSPI-WorkList	Checks the PeopleSoft work-list table
Schedule	PSSPI-ORACLE-Col-05min	Runs the DBSPI or DB2SPI collector process to gather DB metrics every 5 minutes.

The PSSPI-DB_LogFile Policy

The PeopleSoft SPI policy groups PSSPI-DB2DB_Server, PSSPI-MSSDB_Server, PSSPI-OraDB_Server include the logfile policy PSSPI-DB_LogFile. The policy allows you to monitor the messages that the PeopleSoft applications write in the PeopleSoft table PS_MESSAGE_LOGPARM.

Note that it is not possible to create pre-defined conditions for the PSSPI-DB_LogFile policy since the format of each message varies depending on which PeopleSoft application generates it, and the user can also further configure the message's format.

By default, the PSSPI-DB_LogFile policy sends no messages to the message browser. However, two conditions in the policy can help the user to understand the format of the log-file and create their own conditions:

- Suppress ALL messages
- Count of rows deleted from table

The first condition, Suppress ALL messages, suppresses the forwarding of any message from PeopleSoft applications to the message browser. If you want to see messages generated by the PeopleSoft SPI in the message browser, move this suppress-all condition to the end of the list of conditions. The format of the log-file is `<data time> <jobid> <pr_name> message`, where data and time, jobid, pr_name represent the columns DTTM_STAMP_SEC, JOBID and PROGRAM_NAME respectively of the table PS_MESSAGE_LOG, and the message is extracted from the column MESSAGE_PARM of the table PS_MESSAGE_LOGPARM.

The second condition, Count of rows deleted from table, checks for the presence of the entry in the PSSPI-DB_LogFile policy and generates a message which it sends to the message browser.

Example 5-1 PeopleSoft Log-File Entries

```
<2007-07-21 19:46:15> <PRCSPURGAR> <PRCSPURG> Count of rows
deleted from table PSPRCRQSTTEXT: 0 (65,307)
```

To assign the message generated by a condition to a service ID, use the PeopleSoft log-file name. The format of the PeopleSoft log-file name is `DBTYPE_PSDB`, where DBTYPE is the type of database used, for example: ORACLE, MSSQL or DB2, and PSDB is the name of the PeopleSoft database instance, for example: PT844. The Service ID can be set to `PS_SPI : <$MSG_NODE> : <$LOGFILE>`.

For example, if a condition matches and generates a message from a PeopleSoft (Oracle) database PT844 on a system called `inmon.hp.com`, the Service ID would look like the following example:

```
PS_SPI : inmon.hp.com:ORACLE_PT844
```

The PSSPI-Web_Server Policy Group

Table 5-11 on page 78 lists the policies in the PSSPI-Web_Server policy group, indicates each policy type, and gives a brief description of what is monitored. For more information about what, if any, commands the policies call, see “The Policy Repository” on page 119.

Table 5-11 PSSPI-Web_Server Policies

Policy Type	Policy Name	Description
Logfile	PSSPI-WebLogFiles	Monitors the Apache log file (for PeopleSoft 8)
	PSSPI-OwnLogA	Monitors the <code>psspi.log</code> log file on a managed node.
Message	PSSPI-Messages	Intercepts messages from the PeopleSoft SPI programs
Monitor	PSSPI-WebMon	Monitors the existence of the main Apache or WebLogic web server (bundled with PeopleSoft).

PeopleSoft SPI Policies on Cluster Nodes

The PeopleSoft SPI policies continue to generate messages and send them to the HPO management server irrespective of whether the resource group for PeopleSoft is running on that node or not. This can lead to a situation where, after a resource group switch from node A to node B, unnecessary messages appear in the Message Browser window on the HPO management server informing you that the PeopleSoft processes are no longer running on node A. The messages are unnecessary because they are notifying you of behavior that is expected.

To allow or prevent the collection (and sending) of unnecessary messages from PeopleSoft systems in a cluster environment, you need to disable the PeopleSoft SPI on those nodes where the PeopleSoft components are no longer running and re-enable the PeopleSoft SPI on the managed node, where the PeopleSoft components are running again. For more information, see the following sections:

- “Disabling the PeopleSoft SPI on Cluster Nodes” on page 79
- “Enabling the PeopleSoft SPI on Cluster Nodes” on page 80

Disabling the PeopleSoft SPI on Cluster Nodes

To automatically *disable* the PeopleSoft SPI after a package switch, add the following lines to the script which is called when the HPO resource group is enabled on the managed node:

```
opctemplate -d PSSPI-AppSrvLogFiles
opctemplate -d PSSPI-AppSrvCfgFiles
opctemplate -d PSSPI-AppSrvLogSize
opctemplate -d PSSPI-TUXLogFiles
opctemplate -d PSSPI-IPC
opctemplate -d PSSPI-TMIB-Col-05m
opctemplate -d PSSPI-PrCsLogFiles
opctemplate -d PSSPI-PrCsLogSize
opctemplate -d PSSPI-PrCsMon
opctemplate -d PSSPI-PrCsMon-STAT
opctemplate -d PSSPI-PrCsJobTab
opctemplate -d PSSPI-DB2DB-Col-05min
opctemplate -d PSSPI-OraDB-Col-05min
opctemplate -d PSSPI-MSSDB-Col-05min
```

```
opctemplate -d PSSPI-WorkList
opctemplate -d PSSPI-WebLogFiles
opctemplate -d PSSPI-WebMon
```

Enabling the PeopleSoft SPI on Cluster Nodes

To automatically *enable* the PeopleSoft SPI after a package switch, add the following lines to the script which is called when the HPO package starts up after a failover. Note that the following lines must run on the managed node:

```
opctemplate -e PSSPI-AppSrvLogFiles
opctemplate -e PSSPI-AppSrvCfgFiles
opctemplate -e PSSPI-AppSrvLogSize
opctemplate -e PSSPI-TUXLogFiles
opctemplate -e PSSPI-IPC
opctemplate -e PSSPI-TMIB-Col-05m
opctemplate -e PSSPI-PrcsLogFiles
opctemplate -e PSSPI-PrcsLogSize
opctemplate -e PSSPI-PrcsMon
opctemplate -e PSSPI-PrcsMon-STAT
opctemplate -e PSSPI-PrcsJobTab
opctemplate -e PSSPI-DB2DB-Col-05min
opctemplate -e PSSPI-OraDB-Col-05min
opctemplate -e PSSPI-MSSDB-Col-05min
opctemplate -e PSSPI-WorkList
opctemplate -e PSSPI-WebLogFiles
opctemplate -e PSSPI-WebMon
```


Using the HP Performance Agent

The HPO monitors provided with the Smart Plug-in for PeopleSoft can feed the data they collect directly into the HP Software Embedded Performance Component (CODA) or the HP Performance Agent using the Data Source Integration (DSI) tools. The PeopleSoft SPI has a pre-defined DSI-specification file, which is activated using the `PS Activate` application. Running the `PS Activate` application registers the parameters defined in the specification file with the Performance agent (if installed) and, in the process, creates a DSI registration file. If the HPO monitors detect that the DSI command file `ddflog` is present and executable, they automatically attempt to feed the collected data to the DSI.

NOTE

If the name of a Tuxedo domain contains any special characters other than letters, numbers, and the underscore (`_`), the DSI integration will fail.

6 **Using Service Views**

This section describes how to take advantage of the service model of the PeopleSoft environment built by the Smart Plug-in for PeopleSoft.

In this Section

This section describes how to take advantage of the service model of the PeopleSoft environment built by the Smart Plug-in for PeopleSoft. The information in this section covers the following topics:

- “Service Views with the PeopleSoft SPI”
- “Viewing PeopleSoft Services”
- “Viewing PeopleSoft Instances”
- “PeopleSoft Resources and Processes”
- “Service Discovery, Activation, and Assignment”

Service Views with the PeopleSoft SPI

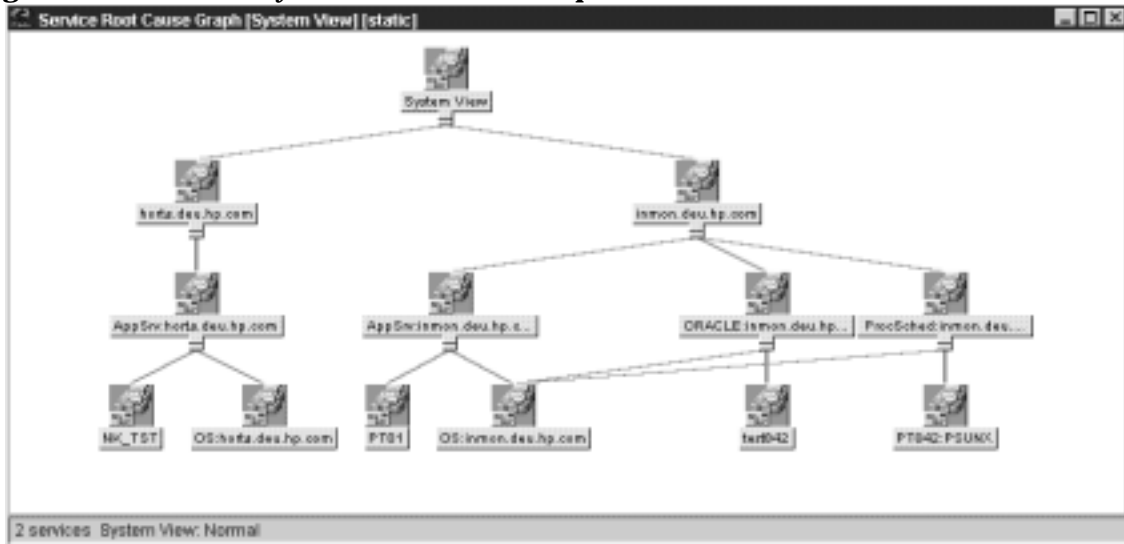
If you are using the Smart Plug-in for PeopleSoft with HP Operations for Unix, you can make use of the HP ServiceNavigator which allows you to display a logical view of all the monitored components in your user environment.

From a PeopleSoft perspective, the PeopleSoft SPI uses the ServiceNavigator to display all PeopleSoft components (database, application, web and batch servers) and any dependencies both in terms of the systems on which the PeopleSoft components are running, that is; a *system* view and, if necessary, the logical view of each installed PeopleSoft instance, the *instance* view. For more information on the system view, see “Viewing PeopleSoft Services” on page 86. For more information on the instance view, see “Viewing PeopleSoft Instances” on page 87.

Viewing PeopleSoft Services

The PeopleSoft SPI uses the HP Navigator to display all PeopleSoft components such as database, application, web, and batch servers as well as any dependencies in terms of the systems on which the PeopleSoft components are running. Figure 6-1 on page 86 illustrates an example representation of a “system” view. It is important to recognize that the idea is *not* to display the status of any particular PeopleSoft functionality: rather, it is to indicate which PeopleSoft role is assigned to a system.

Figure 6-1 A System View of the PeopleSoft Environment



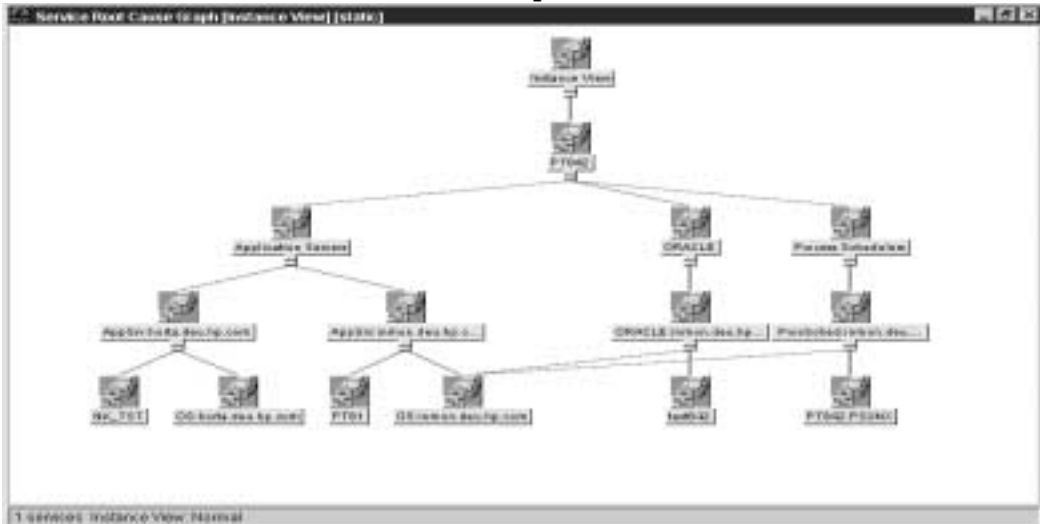
Each system can have different server types:

- database servers (ORACLE, MSSQL or DB2)
- application servers (AppSrv)
- batch servers (ProcSched)
- web servers (APACHE or WEBLOGIC)

Viewing PeopleSoft Instances

The PeopleSoft SPI can also use the Service Navigator to display all PeopleSoft components (database, application, web and batch servers) in terms of the PeopleSoft instances running, that is; an *instance* view. The top level of a instance view is one icon for each installed PeopleSoft instance . Figure 6-2 on page 87 illustrates an example of an instance view, where PT842 is an instance name.

Figure 6-2 An *Instance* View of the PeopleSoft Environment



PeopleSoft Resources and Processes

The Smart Plug-in for PeopleSoft monitors low-level resources and reports any failure by sending a message to the HPO management server. The propagation rules that determine which high level services are affected by the failure of low-level processes and resources is built into the service-tree definition. The low-level component names contain intermediate instance names which provide uniqueness within the service definition.

The following are examples of a service name:

```
PS_SPI:horta.deu.hp.com:AppSrv
```

```
PS_SPI:horta.deu.hp.com:AppSrv:PT844_TUXDOM
```

```
PS_SPI:inmon.deu.hp.com:ProcSched
```

```
PS_SPI:inmon.deu.hp.com:ProcSched:PT844_PSUNX
```

```
PS_SPI:inmon.deu.hp.com:ORACLE_PT844
```

```
PS_SPI:horta.deu.hp.com:WEBLOGIC_peoplesoft
```

where:

- PS_SPI
is the name space
- inmon.deu.hp.com and horta.deu.hp.com
are the host names
- AppSrv, ProcSched, Database type (ORACLE, MSSQL, DB2)
is the sub-group
- TUXDOM
is the Tuxedo domain name
- PT844
is the PeopleSoft database name
- PSUNX
is the Process Scheduler name
- peoplesoft

is the Webserver domain name

Note that the HPO policies provided with the PeopleSoft SPI use *exactly* the same format in their service field to be able to identify the affected service when sending an HPO message.

Service Discovery, Activation, and Assignment

Once you have all the necessary HP Operations components installed and running, you can use the pre-defined tools provided with the PeopleSoft SPI to discover the services present in the PeopleSoft domain, build a Service Navigator model, activate and assign it to the appropriate users..

To build the PeopleSoft service model, activate and assign it:

1. Open the PSSPI-Admin tool group.
2. Launch the `Build PS Services` tool to build a Service Navigator model for the PeopleSoft environment. The `Build PS Services` tool uses the information stored in the node-specific configuration files residing in the directories created by the `PS Activation` tool:

```
/var/opt/OV/share/psspi/disc/<node_name>
```

3. Launch `Activate PS Services` tool to activate the newly built service model for the PeopleSoft environment and assign it to the default PeopleSoft SPI users:

- `psoft_adm`
- `psoft_op`

Note that, if necessary, you can modify the `Activate PS Services` tool to assign the PeopleSoft Service Navigator model to other users of your choice. To do this, use the `Additional Parameters` field in the `Customized Startup` window to specify the new users for the `Activate PS Services` tool: `-user opc_adm -user opc_op`.

NOTE

If you want to assign PeopleSoft Service Navigator model to other users without reactivating services, then you can use `OVO` command `opcservice -assign user PS_SPI`

In this Section

This section describes the Smart Plug-in for PeopleSoft service reports and explains what data the PeopleSoft SPI collects and how. The information in this section covers the following topics:

- “Data Sources”
- “PeopleSoft SPI Reports”
- “Installing PeopleSoft SPI Reports”

Data Sources

The PeopleSoft SPI collects and stores reporting data in the data source `PSSPIOSM_SYSTEM`, where *SYSTEM* is the short host name. For example, reporting metrics collected from system `inmon.deu.hp.com` are stored in the data source `PSSPIOSM_INMON`.

PeopleSoft SPI Reports

The following policies send the data to the Reporter data source: PSSPI-TMIB-Col-05m, PSSPI-PrcsMon, PSSPI-WebMon. The following Reporter table columns are filled by the monitors:

- PSSPI_METRIC_ID is 101 for availability metrics.
- PSDB_NAME is the name of PeopleSoft database.
- SERVER_NAME is the name of process scheduler, application server or web server depend on server_type.
- SERVER_TYPE can be one of the following values: PRCS, APPSRV or WEBSRV.
- OBJECT_NAME is the process name of process scheduler. The column is undefined for application and web servers.
- METRIC_VALUE_1 is 1 if the server is up and 0 if it is down.

Installing PeopleSoft SPI Reports

If you use HP Reporter, you can install the PeopleSoft SPI reports on the Reporter system so that you can customize them and apply them, as desired, to groups of systems and single systems.

Since Reporter runs on a system separate from HPO for Unix, you must install a component for the PeopleSoft SPI that sets up PeopleSoft SPI reports within Reporter:

1. Insert the *HP Smart Plug-ins, New and Upgraded for Operations/Performance for Windows DVD* in the DVD-ROM drive of the Reporter system.
2. Run the following program to install the report package:
`.\spis\peoplesoft spi\psspi-reporter.msi`
3. Open the Reporter main window and check the status pane to note changes to the Reporter configuration.
4. Add group and single system reports by assigning reports as desired. See more information about configuring reports in Reporter documentation.

8 Troubleshooting the PeopleSoft SPI

This section describes how to go about troubleshooting the Smart Plug-in for PeopleSoft.

In this Section

This section describes how to go about troubleshooting the Smart Plug-in for PeopleSoft. The information in this section covers the following topics:

- “General Troubleshooting Notes”
- “Determining the PeopleSoft SPI Version”
- “PeopleSoft SPI Verification Scripts”
- “PeopleSoft SPI Error Logging”
- “PeopleSoft SPI Tracing”
- “Self-Healing Integration”

General Troubleshooting Notes

There are a number of tools and tips to help you troubleshoot problems with the Smart Plug-in for PeopleSoft. The following list describes the most important points to remember:

1. Establish what version of the Smart Plug-in for PeopleSoft is installed and running. For more information, see “Determining the PeopleSoft SPI Version” on page 100.
2. Use the “verification” tools such as `Verify PS Cfg` and `Verify PSSPI Com` in the `PSSPI-Admin` tool group. These tools, as the names suggest, allow you to verify specific aspects of the configuration and installation of the PeopleSoft SPI. For more information, see “PeopleSoft SPI Verification Scripts” on page 101.
3. Have a look at the standard PeopleSoft SPI error log files, which can often contain information that is crucial to understanding and resolving problems. For more information, see “PeopleSoft SPI Error Logging” on page 102.
4. Generate information on the working of the PeopleSoft SPI, enable tracing by running the `PSSPI Trace On` tool in the `PSSPI-Admin` tool group. For more information, see “PeopleSoft SPI Tracing” on page 103.
5. Collect troubleshooting data on a managed node. The collected data can then be sent to your HP support representative to help quickly resolve the SPI issue. For more information, see “Self-Healing Integration” on page 105.

Determining the PeopleSoft SPI Version

It is essential that you know which version of the PeopleSoft SPI software is installed and running on the system that is proving troublesome in order to be able to understand how to proceed. To establish which version of the software is present, carry out the following steps:

1. Use tools such as `Verify Node Inst` and `Verify Srv Inst` to establish the version number of the PeopleSoft SPI files installed on the management server and the managed nodes.
2. Run the tool `PS/TX Versions` which resides in the tool group `PSoft-Reports` to establish which version of PeopleSoft and/or Tuxedo is present.

PeopleSoft SPI Verification Scripts

The Smart Plug-in for PeopleSoft provides a number of tools such as `Verify PS Cfg` and `Verify PSSPI Com` which reside in the tool group `PSSPI-Admin` and allow you to run checks to establish whether or not various aspects of the installation and configuration have completed successfully. For more information on which tools are available to assist in the verification procedure, see “The PSoft-Admin Tools Group” on page 61.

PeopleSoft SPI Error Logging

The Smart Plug-in for PeopleSoft logs error information in a number of standard files. These PeopleSoft SPI error log files which can often contain information that is crucial to understanding and resolving problems reside in the following locations:

- HPO Management Server

```
/var/opt/OV/share/psspi/log/psspi_srv.log
```

- HPO Managed Node

```
<AgentInstallDir>/psspi/log/psspi.log (Windows)
```

```
<OVO_DATADIR>/psspi/log/psspi.log (UNIX)
```

The HPO managed node in this context is the PeopleSoft system you are managing with the PeopleSoft SPI.

It is also useful to check the standard HPO error-log file for information:

```
<AgentInstallDir>\log\OpC\opcerror (Windows)
```

```
<OVO_DATADIR>/log/OpC/opcerror (UNIX)
```

PeopleSoft SPI Tracing

The Smart Plug-in for PeopleSoft uses perl scripts for monitors and tool startup. All perl scripts on the HPO managed node create trace information, if this is configured in the PeopleSoft SPI configuration file. By default, the tracing is set to *AUTO* mode. It means that if an error occurs, the trace information will be written in the trace file automatically.

You can switch the tracing on or off on the HPO managed node using the PSSPI Trace On and PSSPI Trace Off tools in the PSSPI-Admin tool group. To set the tracing to the *AUTO* mode use the PSSPI Trace AUTO tool. Tracing output is written to the following files:

- HPO Managed Node

```
<AgentInstallDir>/psspi/log/psspi.trc (Windows)
<OVO_DATADIR>/psspi/log/psspi.trc (UNIX)
```

The HPO managed node in this context is the PeopleSoft system you are managing with the PeopleSoft SPI.

- HPO Server

```
/var/opt/OV/share/psspi/log/script_name.trc
```

NOTE

All HPO Server perl scripts always create a trace file *script_name.trc*, but they rewrite it every time.

Entries in the trace file, *psspi.trc*, appear in the following format:

```
<mm/dd/yyyy> <hh:mm:ss> PSSPI(<program name>-<pid>): <text>
```

Table 8-1 on page 103 lists and describes the various fields.

Table 8-1 Trace-File Fields

Field Name	Description
<mm/dd/yyyy>	Date when the entry is created
<hh:mm:ss>	Time when the entry is created

Table 8-1 **Trace-File Fields (Continued)**

Field Name	Description
<i><program name></i>	Name of program (script, executable) responsible for the entry
<i><pid></i>	PID of program responsible for the entry
<i><text></i>	Detailed information on event

Self-Healing Integration

To collect troubleshooting data for HP support you can use the tool `Self-Healing Info` in the `PSSPI-Admin` tool group. The application starts the self-healing collector in stand-alone mode. The self-healing collector writes the data it collects to the files `/tmp/spi_ps` on Unix, or in `%TEMP%/spi_ps` on Windows.

A PeopleSoft SPI File Names

This section describes which files are installed by the Smart Plug-in for PeopleSoft and where exactly they are located after the installation and configuration of the product has been completed successfully.

In this Section

This section describes which files are installed by the Smart Plug-in for PeopleSoft and where exactly they are located after the installation and configuration of the product has been completed successfully. In this section you will find information concerning:

- “Product Bundles and Filesets”
- “Files on the Management Server”
- “Files on the Managed Nodes”
- “PeopleSoft Configuration Files”

Product Bundles and Filesets

Table A-1 on page 109 shows which products are present in the HP Operations Smart Plug-in for PeopleSoft software bundles:

Table A-1

Products in the PeopleSoft SPI Software Bundle

SD Bundle	Fileset	Description
SPI-PSoft	SPI-PS-CONFIG	SPI Software

Files on the Management Server

The PeopleSoft SPI exists as an SD bundle and must be installed on the HPO management server. SD control scripts perform a number of customization procedures during installation and, in addition, create the directories listed in Table A-2 on page 110:

Table A-2 PeopleSoft SPI File Locations on the HPO Management Server

Description	Location
SPI binary files	<code>/opt/OV/psspi/bin</code>
SPI temporary and runtime files	<code>/var/opt/OV/share/psspi/tmp</code>
SPI log files	<code>/var/opt/OV/share/psspi/log</code>
SPI configuration files	<code>/var/opt/OV/share/psspi/conf</code>
HPO integration files in uploadable format ^a	<code>/var/opt/OV/share/tmp/OpC_appl/psspi</code>

- a. The OVO upload packages residing in the directory `.../OpC_appl/psspi` are loaded into the OVO database using the command: `opccfgupld -replace <package>`

Files on the Managed Nodes

After installing the Smart Plug-in for PeopleSoft on the HPO Management Server and distributing commands and monitors to the PeopleSoft systems (which become, as a result, HPO managed nodes), the components listed in Table A-3 on page 111 will reside on the managed node:

Table A-3 PeopleSoft SPI File Locations on the HPO Managed Nodes

Description	Location ^a	Created By
SPI scripts and binary files	<OVOAGT_CMDDIR> <OVOAGT_MONDIR>	HPO agent
Non-root sudo files	<OVO_DATADIR>/psspi/bin	PeopleSoft SPI
SPI temporary and runtime files	<OVO_DATADIR>/psspi/tmp	PeopleSoft SPI
SPI log files	<OVO_DATADIR>/psspi/log	PeopleSoft SPI
SPI configuration files	<OVO_DATADIR>/psspi/conf	PeopleSoft SPI
DSI integration files	<OVO_DATADIR>/psspi/dsi	PeopleSoft SPI

- a. All variables (like *OVO_DATADIR*) can be found by executing the command
`opcagt -type -verbose`
on the managed node.

NOTE

Path separators in this section are given only for UNIX managed nodes. For Windows managed nodes use the back slash as a path separator, for example: <OVO_DATADIR>\psspi\conf

PeopleSoft Configuration Files

This section describes three important PeopleSoft SPI configuration files, namely:

- “The psspi.cfg Configuration File” on page 112
- “The psspi.disc Configuration File” on page 113
- “The ps.cfg Configuration File” on page 116

Each of these three configuration files is described in greater detail in the following sections.

The psspi.cfg Configuration File

The configuration file `<OVO_DATADIR>/psspi/conf/psspi.cfg` can be used to control the overall behavior of PeopleSoft SPI components on the PeopleSoft system that is managed by HPO. The following example illustrates the contents of the `psspi.cfg` file:

Example A-1 The psspi.cfg File on HPO Managed Nodes

```
#####  
# File: psspi.cfg  
# Description: PeopleSoft SPI configuration file.  
#####  
  
TRACE_LEVEL 2  
  
#####
```

Each line consists of a key value pair separated by white spaces. The value consists of everything following the first white space(s) until the end of the line. Quoting is neither necessary nor allowed since quotes are

used as part of the value itself. However, empty lines are allowed. Lines starting with a hash (#) sign are treated as comments. Table A-4 on page 113 show which keys are supported in the `psspi.cfg` file:

Table A-4 Supported Keys in the psspi.cfg File

Key	Type	Value Range	Default Setting	Description
TRACE_LEVEL	integer	0 - 9 or AUTO	AUTO	Trace level controls the amount of runtime tracing written by SPI processes.
COLLECTION	boolean	TRUE/ FALSE	TRUE	Enables/ disables the entire PeopleSoft SPI

The psspi.disc Configuration File

The PS Discovery tool writes its findings to the file
`<OVO_DATADIR>/psspi/conf/psspi.disc`

The format of the `psspi.disc` file allows for convenient manual editing: such an action might be necessary if, for example, the discovery application fails for any reason and the database coordinates need to be entered separately, or if more than one database instance is discovered and not all the instances need to be monitored.

Note that if you modify the contents of the `psspi.disc` file on the managed node, you also have to activate the file again using the tool PS Activate.

On the HPO management server, individual discovery files are stored for each node in the following location:

`/var/opt/OV/share/psspi/disc/<node_name>`

The example below shows what kind of information is written to the `psspi.disc` file on a managed node and what the format of the file contents is.

Example A-2 The psspi.disc File on Managed Nodes

```
#####
#
# File:                psspi.disc
# Description:        PeopleSoft SPI information base - filled by SPI discovery
```

PeopleSoft SPI File Names

PeopleSoft Configuration Files

```
# Language:          Config
# Package:           HP Operations Smart Plug-in for PeopleSoft
#
# (c)Copyright 1999-2009 Hewlett-Packard Company., All Rights Reserved.
#
#####

#-----
# Global PeopleSoft specific entries for this host.
#-----
OS_VERS;HP-UX B.11.23
#-----
# List of PeopleSoft installations as defined by PS_HOME. Each entry is
# represented by a single line having the following format:
# PS_HOME;PS_VER;PS_DBNAME;DB_TYPE;DB_NAME;DB_SERVER;DB_HOME;
# PS_DOWNER;TUXDIR;TUXVER;TUXBIT
#-----

PS_DB

/opt/PT8.50;8.50;PT85;ORACLE;PT85;inmon.deu.hp.com;/opt/oracle/product/10.2.0;SY
SADM;/opt/tuxedo;10;64
END

#-----
# List of Application Servers (Tuxedo Domains) used by PeopleSoft.
# Each entry has the following format:
# PS_HOME;PS_CFG_HOME;PS_USER;DOMAIN;APPLOGS
#-----

APPSRV

/opt/PT8.50;/home/psft/pt/8.50;psoft;TUXDOM;/home/psft/pt/8.50/appserv/TUXDOM/LO
GS
END

#-----
# List of PeopleSoft Process Schedulers. Each entry has the following format:
# PS_HOME;PS_CFG_HOME;PS_USER;PRCS_DIR;PRCS_NAME;LOGS
#-----

PRCS

/opt/PT8.50;/psft/pt/8.50;psoft;PT85;PSUNX;/psft/pt/8.50/appserv/prcs/PT85/LOGS
END

#-----
```

```
# List of PeopleSoft bundled web servers as defined by PS_HOME. Each entry
# is represented by a single line having the following format:
# PS_HOME;WEB_HOME;WEB_TYPE;WEB_DOMAIN
#-----

WEBSRV
/opt/PT8.50;/opt/PT8.50/webserv;WEBLOGIC;peoplesoft
END

#-----
# List of File systems. Each entry has the following format:
# Mount-point;...
#-----
FILESYS
/stand;/u02;/
END
#####
# End of psspi.disc
#####
```

NOTE

If the discovery mechanism is restarted, the previously stored information base is backed up to the file `psspi.disc.bak.<PID>` and then the `psspi.disc` is overwritten.

PeopleSoft allows the creation of multiple independent installations on one system - for example, different versions for testing purposes. However, this results in multiple `PS_HOME` residing in directories adhering to a standard PeopleSoft structure but which typically are not associated with separate user accounts. Although, the discovery mechanism and the configuration-file syntax within the PeopleSoft SPI both support the existence of multiple PeopleSoft installations on one system (i.e. multiple `PS_HOME` directories or users), the normal discovery mechanism will not always be able to find them automatically.

To enable the discovery of multiple `PS_HOMES` as well as any other PeopleSoft components in such environments, the PS Discovery application accepts additional options which allow you to narrow the search down to those places where a PeopleSoft installation might usually be found. These options can be specified in the `Parameters` field in the HPO Customized Startup window. For more details about discovery options see the chapter “Discovering PeopleSoft Components on the Managed Nodes” on page 40.

The ps.cfg Configuration File

The PS Activate tool reads the psspi.disc and copies its contents to the file <OVO_DATADIR>/psspi/conf/ps.cfg, which is evaluated on the managed node by the HPO policy and tool scripts and, in addition, sent back to the HPO management server to be converted into the HPO service model. The format of the ps.cfg file is the same as the psspi.disc file. If the PS Activate tool is run subsequently, the old configuration is backed up to the file:

```
<OVO_DATADIR>/psspi/conf/ps.cfg.<PID>
```

NOTE

After you have activated the configuration, you can run the Verify PS Cfg tool in the PSSPI-Admin tool group to make sure that the configuration is consistent and reflects the instance or instances present on the PeopleSoft server.

B **PeopleSoft SPI Components**

This section describes which components are installed by the Smart Plug-in for PeopleSoft and provides detailed reference material, which aims to help you understand how the various components work and interact with each other.

Policies

All PeopleSoft SPI policies have the prefix `PSSPI-`. The same rule applies to all PeopleSoft SPI policy conditions, too.

Many log-file and monitor policies operate by default on multiple PeopleSoft or Tuxedo instances, which are all found during the discovery process. However, it is possible to limit the operational scope of a given policy by passing the list of instances which are of interest to you to the script, which the policy executes. If you do not explicitly declare any instances, the script assumes it has to monitor all discovered instances. To modify the `PSSPI-TMIB-Col-05m` policy to monitor one domain, the monitor script should be changed to look like the following example, where *domain_name* is the name of the domain you want to monitor:

```
psspi_perl psspi_tmib.pl 1-10 domain_name
```

The following sections list the scripts used by the policies available in the Smart Plug-in for PeopleSoft:

- “The Policy Repository” on page 119
- “Log-File Scripts” on page 124
- “Monitor Scripts” on page 125

The Policy Repository

Table B-1 on page 119 lists *all* the policies provided with the Smart Plug-in for PeopleSoft.

Table B-1 All PSSPI Policies

Policy Name	Type	Description
PSSPI-AppSrvCfgFiles	Logfile	Monitors changes to the application-server configuration file, <code>psappsrv.cfg</code> . Uses the command call: <code>psspi_logfile.pl -s APPSRV -l PSAPPSRVCFG</code>
PSSPI-AppSrvLogFiles	Logfile	Monitors the application-server log file, <code>APPSRV.LOG</code> , for each PS domain. Uses the command call: <code>psspi_logfile.pl -s APPSRV -l APPSRV</code>
PSSPI-AppSrvLogSize	Monitor	Monitors the application-server log directory for the amount of disk space consumed by the <code>APPSRV.LOG</code> and <code>TUXLOG.<date></code> files. Uses the command call: <code>psspi_logsiz.pl MonitorName AppSrv</code>
PSSPI-DB_LogFile	Logfile	Monitors the database server log table, <code>PS_MESSAGE_LOGPARM</code> . For more details, see “The PSSPI-DB_LogFile Policy” on page 77. Uses the command call: <code>psspi_dblog.pl</code>

Table B-1 All PSSPI Policies (Continued)

Policy Name	Type	Description
PSSPI-DB2-Col-05min PSSPI-ORACLE-Col-05min PSSPI-MSSQL-Col-05min	Schedule	Runs the DBSPI or DB2SPI collector process to gather DB metrics every <i>intv</i> minutes. In this case <i>intv</i> = 5 minutes. Note that there may be multiple templates with different <i>intv</i> . Actual data processing is done in monitors <i>PSSPI-DBSPI-metric</i> or <i>PSSPI-DB2SPI-metric</i> . Uses the command call: <code>psspi_dbcax.pl 792,793</code>
PSSPI-DBSPI-0791 PSSPI-DBSPI-3791	External Monitor	Number of employees in the PeopleSoft database. Metric 0791 is for Oracle, 3791 for MSSQL DB.
PSSPI-DBSPI-0792 PSSPI-DBSPI-3792 PSSPI-DB2SPI-4792	External Monitor	Number of queue jobs. Metric 0792 is for Oracle, 3792 for MSSQL DB, 4792 for DB2.
PSSPI-DB2SPI-4793	External Monitor	<i>(DB2 only)</i> Number of database connections.
PSSPI-DBSPI-0793	External Monitor	<i>(Oracle only)</i> Number of 2-tier client connections: i.e. the number of clients working in 2-tier mode.
PSSPI-DBSPI-3793	External Monitor	<i>(MSSQL only)</i> Number of database connections.
PSSPI-IPC	Monitor	<i>(UNIX managed nodes only)</i> Monitors kernel parameters for Tuxedo domains. Uses the command call: <code>psspi_ipcmon.pl MonitorName</code>
PSSPI-Messages	Message	Intercepts messages from the PeopleSoft SPI programs
PSSPI-OwnLogA	Logfile	Monitors the <code>psspi.log</code> log file on a managed node.

Table B-1 All PSSPI Policies (Continued)

Policy Name	Type	Description
PSSPI-PracsAppSrvLogFiles	Logfile	Monitors the log file APPSRV_<DATE>.LOG for each process scheduler. Uses the command call: psspi_logfile.pl -s PRCS -l APPSRV
PSSPI-PracsJobTab	Monitor	Checks the process-scheduler table and the job-table entries. Uses the command call: psspi_pracs.pl <i>MonitorName</i>
PSSPI-PracsLogFiles	Logfile	Monitors the PeopleSoft process-scheduler log files. Uses the command call: psspi_logfile.pl -s PRCS -l SCHDLR
PSSPI-PracsLogSize	Monitor	Monitors the size of the process-scheduler log directory and the disk space consumed by the process scheduler log files. Uses the command call: psspi_logsiz.pl <i>MonitorName</i> Pracs
PSSPI-PracsMon	Monitor	Monitors the existence of the process-scheduler process. Uses the command call: psspi_pmon.pl <i>MonitorName</i>
PSSPI-PracsMon-STAT	Monitor	<i>(Unix managed nodes only)</i> Monitors the existence of PSDSTSRV, the additional process-scheduler process. Uses the command call: psspi_pmon.pl <i>MonitorName</i> PSDSTSRV
PSSPI-TMIB-001	External Monitor	Monitors the status of the Tuxedo domains of a PeopleSoft application server

Table B-1 All PSSPI Policies (Continued)

Policy Name	Type	Description
PSSPI-TMIB-002	External Monitor	Monitors the status of the Tuxedo machine
PSSPI-TMIB-003	External Monitor	Monitors the status of the Tuxedo server group: APPSRV
PSSPI-TMIB-004	External Monitor	Monitors the status of the Tuxedo server group: BASE
PSSPI-TMIB-005	External Monitor	Monitors the actual number of APPSRV server processes and compares the reported value with TA_MIN
PSSPI-TMIB-006	External Monitor	Monitors the actual number of APPSRV server processes and compares it with TA_MAX
PSSPI-TMIB-007	External Monitor	Monitors the generation number TA_MAXGEN - TA_GENERATION
PSSPI-TMIB-008	External Monitor	Monitors the actual (absolute) number of APPSRV processes.
PSSPI-TMIB-010	External Monitor	Monitors the number of 3-tier connections.
PSSPI-TMIB-Col-05m ^a	Schedule	Runs the TMIB collector process to gather Tuxedo metrics every <intv> minutes. In this case <i>intv</i> = 5 mins. Note that there may be multiple templates with different <intv>. Actual data processing is done in monitors TMIB-<metric>. Uses the command call: psspi_tmib.pl 1,5-8,10
PSSPI-TUXLogFiles	Logfile	Monitors the TUXLOG.<date> log files for each PeopleSoft domain. Uses the command call: psspi_logfile.pl -s APPSRV -l TUXLOG

Table B-1 All PSSPI Policies (Continued)

Policy Name	Type	Description
PSSPI-WebLogFiles	Logfile	Monitors the Apache log file (for PeopleSoft 8). Uses the command call: <code>psspi_logfile.pl -s WEBSRV -l LOGS</code>
PSSPI-WebMon	Monitor	Monitors the existence of the main Apache or WebLogic web server (bundled with PeopleSoft). Uses the command call: <code>psspi_websrv.pl MonitorName</code>
PSSPI-WorkList	Monitor	Checks the PeopleSoft work-list table using the comand call: <code>psspi_wrklst.pl MonitorName</code>

- a. If you want to split the schedule policy into multiple policies each of which is configured to run at different intervals, make sure that only *one* of the templates is configured to feed the Performance agent. For more information, see “Monitor Scripts” on page 125.

Log-File Scripts

Table B-2 on page 124 lists the scripts used by the log-file policies.

Table B-2 Log-File Scripts

Script Name	Used by Policy	Description
psspi_logfile.pl	PSSPI-AppSrvLogFiles PSSPI-PrcsAppSrvLogFiles PSSPI-PrcsLogFiles PSSPI-TUXLogFiles PSSPI-WebLogFiles	<p>For UNIX managed nodes returns the names of symbolically linked log files. For Windows managed nodes returns the names of log files. Uses the command call:</p> <pre>psspi_logfile.pl -s ServerType -l LogType</pre> <p>where ServerType is one of the APPSRV, PRCS or WEBSRV and LogType is the type of logfile.</p>
	PSSPI-OwnLogA	<p>Returns the path to the PeopleSoft SPI log file psspi.log on a managed node. Uses the command call:</p> <pre>psspi_logfile.pl -s PSSPI -l AGENT</pre>
psspi_dblog.pl	PSSPI-DB_LogFile	<p>Connects to the database, extracts the data from the table PS_MESSAGE_LOGPARM, writes the logfile, and returns the logfile name. Uses the command call:</p> <pre>psspi_dblog.pl</pre>

Monitor Scripts

HPO process monitors require perl scripts or programs to perform the desired monitoring. Table B-3 on page 125 lists the scripts used by the PeopleSoft SPI monitors.

The PeopleSoft SPI monitor scripts (in conjunction with the corresponding HPO monitor policies) use the object-monitoring feature. This means that the information pertaining to which objects are to be monitored resides in the scripts themselves. By default, there is only *one* policy condition for *all* instances. If a finer granularity is desired, you can create conditions for single instances.

If you want to split the collector monitor into multiple monitors each of which is configured to run at different intervals, make sure that only one of the monitors is configured to feed the Performance agent. By default, the Performance agent integration is configured to run the collection every 5 minutes: if you change the interval make sure the value of the modified interval matches the value declared in the DDF specification. In addition, all other collector policies should specify the `-no_dsi` option as an argument to the `psspi_tmib.pl` collector script.

Table B-3 **Monitor Scripts**

Script Name	Used by Monitor	Description
<code>psspi_dbcax.pl</code>	PSSPI-DB-Col-intv	<p>DB Collector: called with metric IDs in parameter list to evaluate the metrics of DBMS and PeopleSoft-specific DBs. Uses the command call (monitoring):</p> <pre>psspi_perl psspi_dbcax.pl METRICS [PS_DBNAME ...]</pre> <p>where METRICS are metrics, PS_DBNAME - the PeopleSoft database name</p>

Monitor Scripts

Table B-3 Monitor Scripts (Continued)

Script Name	Used by Monitor	Description
psspi_ipcmon.pl	PSSPI-IPC	<p><i>(UNIX managed nodes only)</i> Monitors actual usage of IPC tables and passes values to HPO agent. Uses the command call:</p> <pre>psspi_perl psspi_ipcmon.pl MONITOR [DOMAIN ...]</pre> <p>where MONITOR is a monitor name, DOMAIN - Tuxedo domain name. If the domain names are not specified all domains from ps.cfg are monitored.</p>
psspi_logsiz.pl	PSSPI-PrcsLogSize PSSPI-AppSrvLogSize	<p>Monitors the size of the process scheduler or application server log directory and the disk space consumed by the process scheduler or application server log files. Uses the command call:</p> <pre>psspi_perl psspi_logsiz.pl MONITOR CATEGORY [INSTANCE ...]</pre> <p>where MONITOR is a monitor name, CATEGORY - APPSRV or PRCS, INSTANCE - Tuxedo domain or process scheduler name. If the domain names or process scheduler names are not specified all Tuxedo domain or process schedulers are monitored.</p>

Table B-3 Monitor Scripts (Continued)

Script Name	Used by Monitor	Description
psspi_pmon.pl	PSSPI-PrcsMon PSSPI-PrcsMon-STAT	<p>Monitors all process-scheduler processes and passes the values to the HPO monitor agent and, if configured, to Performance agent. Uses the command call:</p> <pre>psspi_perl psspi_pmon.pl MONITOR [-no_dsi ProcessName]</pre> <p>where MONITOR is a monitor name, ProcessName - process scheduler process name. If the process scheduler process name is not specified the PSPRCSRV is monitored.</p>
psspi_prcs.pl	PSSPI-PrcsJobTab	<p>Monitors the process schedulers job table. Uses the command call:</p> <pre>psspi_perl psspi_prcs.pl MONITOR [PSDB_NAME]</pre> <p>where MONITOR is a monitor name and PSDB_NAME is a process-scheduler name. If the process scheduler process name is not specified all process schedulers configured in ps.cfg are monitored.</p>

Monitor Scripts

Table B-3 Monitor Scripts (Continued)

Script Name	Used by Monitor	Description
<p>psspi_tmib.pl psspi_tuxcoa.65 psspi_tuxcoa.81 psspi_tuxcoa64.81 psspi_tuxcoa.65.ex psspi_tuxcoa.81.exe</p>	<p>PSSPI-TMIB-Col-05m</p>	<p>TMIB Collector: called with metric IDs in parameter list to evaluate the metrics of TMIB objects. Uses the command call:</p> <pre>psspi_perl psspi_tmib.pl METRICS [-t Prefix] [-no_dsi] [DOMAIN ...]</pre> <p>where DOMAIN is a Tuxedo domain name, Prefix - the prefix, which will be added to external monitor names, ex. CRM-PSSPI-TMIB-005_1. If the domain names are not specified all domains from ps.cfg are monitored. If -no_dsi option is specified, the data will not be sent to the Performance agent.</p> <p>The programs with extension .81/.81.exe are meant for Tuxedo 8.1; the programs with extension .65/.65.exe are meant for Tuxedo 6.5. psspi_tuxcoa64.81 is for 64-bit Tuxedo domains.</p>
<p>psspi_websrv.pl</p>	<p>PSSPI-WebMon</p>	<p>Monitors the existence of the Apache or WebLogic web server bundled with PeopleSoft 8. Uses teh command call:</p> <pre>psspi_perl psspi_websrv.pl MONITOR</pre> <p>where MONITOR is a monitor name.</p>

Table B-3 Monitor Scripts (Continued)

Script Name	Used by Monitor	Description
psspi_wrk1st.pl	PSSPI-WorkList	<p>Monitors the worklist tables. Uses the command call:</p> <pre>psspi_perl psspi_wrk1st.pl MONITOR [PS_DBNAME ...]</pre> <p>where MONITOR is a monitor name, PS_DBNAME - a PeopleSoft database name. If the PeopleSoft database names are not specified all databases from ps.cfg are monitored.</p>

C **PeopleSoft SPI Commands**

In this section you can find information relating to the functions used by the Smart Plug-in for PeopleSoft in tool calls. You can use these functions to create customized HPO tool.

In this Section

In this section you can find information relating to the functions used by the Smart Plug-in for PeopleSoft in tool calls. You can use these functions to create customized HPO tools. In this section you will find information concerning:

- “The psspi_act.pl Command” on page 133
- “The psspi_actsvc.pl Command” on page 134
- “The psspi_bldsvc.pl Command” on page 135
- “The psspi_cleanup.pl Command” on page 136
- “The psspi_dbcax.pl Command” on page 137
- “The psspi_df.pl Command” on page 138
- “The psspi_disc.pl Command” on page 139
- “The psspi_inst.pl Command” on page 140
- “The psspi_ipcs.pl Command” on page 141
- “The psspi_pspt.pl Command” on page 142
- “The psspi_shs.pl Command” on page 143
- “The psspi_spicl.pl Command” on page 144
- “The psspi_tmcl.pl Command” on page 145
- “The psspi_verify.pl Command” on page 146

The `psspi_act.pl` Command

Performs activation PSSPI on managed node.

NAME `psspi_act.pl`

SYNOPSIS `psspi_act.pl`

DESCRIPTION The command `psspi_act.pl` is used by the `PS Activate` tool. More details can be found in the chapter “Activating the Configuration on the PeopleSoft Nodes” on page 47.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The `psspi_actsvc.pl` Command

Activates the PeopleSoft service model and assign it to users. The command runs on HPO management server.

NAME `psspi_actsvc.pl`

SYNOPSIS `psspi_actsvc.pl [-u[ser] HPOUserName1 -u[ser] HPOUserName2 ...]`
`psspi_actsvc.pl [-h[elp] | -?]`

DESCRIPTION The command `psspi_actsvc.pl` activates the PeopleSoft service model and assign it to the specified users. If no users are given then the PeopleSoft service model is assigned:

- `psoft_adm`
- `psoft_op`

More details can be found in the chapter “Service Discovery, Activation, and Assignment” on page 90.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The `psspi_bldsvc.pl` Command

Builds the PeopleSoft service model. It is started on HPO management server.

NAME	<code>psspi_bldsvc.pl</code>
SYNOPSIS	<code>psspi_bldsvc.pl</code>
DESCRIPTION	The command <code>psspi_bldsvc.pl</code> builds the PeopleSoft service model. More details can be found in the chapter “Service Discovery, Activation, and Assignment” on page 90.
EXIT VALUES	If an error occurs, the utility returns a non-zero return code.

The `psspi_cleanup.pl` Command

Removes all files and persistent information pertaining to the PeopleSoft SPI on the node.

NAME `psspi_cleanup.pl`

SYNOPSIS `psspi_cleanup.pl [-y]`

DESCRIPTION The command `psspi_cleanup.pl` with option `-y` removes all files and persistent information pertaining to the PeopleSoft SPI on the selected node. Without the option prints a warning message only.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The `psspi_dbcax.pl` Command

Starts reports for the PeopleSoft databases.

NAME `psspi_dbcax.pl`

SYNOPSIS `psspi_dbcax.pl -report_on_all_DB [arguments]`
`psspi_dbcax.pl -report_on_one_DB instance [arguments]`

DESCRIPTION The command `psspi_dbcax.pl` invokes a DBSPI or DB2SPI scripts depending on database type (ORACLE, MSSQL or DB2). With the option `-report_on_all_DB` the report will be started on all configured instances. For the option `-report_on_one_DB` the *instance* must be given. The *arguments* will be forwarded to external script without parsing. They must contain metric and report number. Note that DBSPI and DB2SPI must be installed and configured on the managed node.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The `psspi_df.pl` Command

Displays statistics on file systems and their usage.

NAME	<code>psspi_df.pl</code>
SYNOPSIS	<code>psspi_df.pl [fs1 fs2 ...]</code>
DESCRIPTION	The command <code>psspi_df.pl</code> Displays statistics on file systems <i>fs1</i> , <i>fs2</i> and their usage.
EXIT VALUES	Returns the exit values from external commands (e.g. <code>itodiag.exe</code> , <code>df</code>).

The `psspi_disc.pl` Command

Discovers the PeopleSoft components installed on the PeopleSoft servers.

NAME `psspi_disc.pl`

SYNOPSIS `psspi_disc.pl [-path ps_cfg_home] [-td tuxdir] [-find] [-ver ps_ver]
psspi_disc.pl [-h[elp] | -?]`

DESCRIPTION The command `psspi_disc.pl` discovers the PeopleSoft components on the managed node automatically. But in some cases some options can be specified to help the script:

- `-find` cause the discovery to test all directories under the specified directory or a self-found directories
- `-path` use this path as a `PS_CFG_HOME` for discovery; `ps_cfg_home` must be *one* single parameter, i.e. must be quoted if containing spaces. There can be several parameters `-path ps_cfg_home`, if the command is intended for several servers.
- `-td` can be used to set a Tuxedo directory.
- `-ver` can be used to set the PeopleTools version (do no mix with PS Application version!), if the script fails to discover version for any reason (e.g. the `psadmin` user has interactive login).

More details about how the script works can be found in the chapter “Discovering PeopleSoft Components on the Managed Nodes” on page 40.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The psspi_inst.pl Command

Starts tasks related to the PeopleSoft installation (defined by *PS_HOME*) for PeopleSoft environments.

NAME psspi_inst.pl

SYNOPSIS psspi_inst.pl *command* [-p *PShome1*, *PShome2*] [*parameters*]
psspi_inst.pl [-h | -?]

DESCRIPTION The command `psspi_inst.pl` invokes a command line tool or generates information related to the PeopleSoft installation specified in *command*. Valid options for *command* are:

- version
- status

All necessary environment variables are set before the function is executed. *All* of the commands require *PSinstallation*. PeopleSoft installations can either be selected by users by means of entries in the *Parameters* field of a tool or specified with a command-line option: -p *pshome1*, *pshome2*.

Additional, optional parameters can be passed to the started command-line tool using *parameters*. However, these parameters are not checked by `psspi_inst.pl`; they are passed by *command* as is. The -h option displays usage information and lists the options available with the function.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The `psspi_ipcs.pl` Command

Displays the current IPC resource statistics or purges the current IPC resources for a specific PeopleSoft installation. Only for Unix managed node.

NAME `psspi_ipcs.pl`

SYNOPSIS `psspi_ipcs.pl [parameters]`
`psspi_ipcs.pl -d [-a | -p PShome1,PShome2] [-y]`

DESCRIPTION The command `psspi_ipcs.pl` without options invokes a command line tool `ipcs` and passes *parameters* to it without parsing. Usually it is used to display the current IPC resource statistics. If the option `-d` is specified, then the command purges the current IPC resources for specified `PS_HOMEs`. You do not need to specify `PS_HOME`, if there is only one PeopleSoft installation on managed node. With the option `-a` the script run the command for all `PS_HOMEs`. Note that only if the option `-y` is specified the resources will be purged, otherwise only the list of commands will be printed for review.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The psspi_pspt.pl Command

Shell script to start tasks related to the PeopleSoft process-scheduler process.

NAME psspi_pspt.pl

SYNOPSIS psspi_pspt.pl *command* [-p *PRCS_NAME1*[:*DB_NAME*],*PRCS_NAME2*]
psspi_pspt.pl [-h | -?]

DESCRIPTION The command executes tasks related to the PeopleSoft process scheduler process according to command parameter. Valid values for *command* are:

- start
- stop
- status
- viewcfg
- viewlog

All necessary environment variables are set before the script invokes *command*. With the option -p the Process Scheduler name can be set. If no ProcessScheduler name is specified, then the *command* is executed for all Process Schedulers. If there are several PeopleSoft databases with the same Process Scheduler name, then the Process Scheduler can be specified by format *PRCS_NAME*:*DB_NAME*, where *PRCS_NAME* is a Process Scheduler name, and *DB_NAME* is a PeopleSoft database name.

The -h option displays usage information and lists the options available with the function.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The psspi_shs.pl Command

Starts Self-Healing collector to collector troubleshooting data.

NAME psspi_shs.pl

SYNOPSIS psspi_shs.pl [*parameters*]

DESCRIPTION The command `psspi_shs.pl` invokes the Self-Healing collector. Additional, optional parameters can be passed to the started command-line tool using *parameters*. However, these parameters are not checked by `psspi_shs.pl`; they are passed to the collector as is.

EXIT VALUES The utility always returns a zero return code.

The `psspi_spicl.pl` Command

Shell script to start tasks related to the PeopleSoft SPI.

NAME `psspi_spicl.pl`

SYNOPSIS `psspi_spicl.pl command [parameters]`
`psspi_spicl.pl [-h | -?]`

DESCRIPTION The command `psspi_spicl.pl` executes tasks related to the PeopleSoft SPI as specified in *command*. Valid options for *command* are:

- `getps`
- `pscfg -d(isplay)`
- `setcfg <LABEL> <VALUE>`
- `spicfg -d(isplay)`
- `spilog`
- `spitrc`

The `-h` option displays usage information and lists the options available with the function.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The `psspi_tmcl.pl` Command

Starts domain-related command-line tools or domain-related tasks for PeopleSoft environments.

NAME `psspi_tmcl.pl`

SYNOPSIS `psspi_tmcl.pl command [parameters] [-d domain1, domain2]`
`psspi_tmcl.pl command [-h | -?]`

DESCRIPTION The command `psspi_tmcl.pl` executes a domain-related Tuxedo command-line tool or other domain-related tasks as specified in *command*. Valid options for *command* are:

- `domrestart`
- `tmadmin`
- `tmboot`
- `tmconfig`
- `tmshutdown`
- `tmunloadcf`
- `viewlog`

All necessary environment variables are set before the function invokes the tasks defined in *command*. If domain name is not specified, then the command is executed for all domains.

The `-h` option displays usage information and lists the options available with the function.

Additional optional parameters can be passed to the started Tuxedo command using *parameters*. However, these parameters are not checked by `psspi_tmcl.pl`; they are passed by *command* as is.

EXIT VALUES If an error occurs, the utility returns a non-zero return code.

The `psspi_verify.pl` Command

Shell script to start tasks related to the PeopleSoft SPI.

NAME	<code>psspi_verify.pl</code>
SYNOPSIS	<code>psspi_verify.pl [-c -d -n -s]</code>
DESCRIPTION	The command <code>psspi_verify.pl</code> checks the installation of the PSSPI on the HPO managed node is correct (-n), verifies that the configuration of the managed PeopleSoft components in the <code>ps.cfg</code> file reflects the PeopleSoft environment on the node (-d), verifies that the communication between managed node and management server is working correctly for PeopleSoft messages (-c), verifies that the installation of the PSSPI on the HPO management server is correct (-s).
EXIT VALUES	If an error occurs, the utility returns a non-zero return code.

A

- activate nodes, 47
- activation
 - monitoring, 47
 - of services, 90
- agent
 - file locations, 111
- application
 - Activate PS Services, 58
 - Boot Adm Servers, 62
 - Boot Appl Servers, 63
 - Boot PS domain, 63
 - Build PS Services, 58
 - File Systems, 63
 - Get PS Cfg, 58
 - IPC Cleanup, 63
 - IPC Current, 63
 - IPC Needed, 63
 - Proc Sched Status, 66
 - PS 2-Tier Conn, 65
 - PS Activate, 58
 - PS Discovery, 58
 - PS Job Status, 66
 - PS Status, 66
 - PS Worklist Status, 66
 - PS/TX Versions, 66
 - PSSPI Cleanup, 58
 - PSSPI Off, 58
 - PSSPI On, 59
 - PSSPI Trace Off, 59
 - PSSPI Trace On, 59
 - Restart PS Domain, 64
 - Self-Healing Info, 59
 - Shutd. Adm Servers, 64
 - Shutd. Appl Servers, 64
 - Shutd. PS Domain, 64
 - Start Proc Sched, 64
 - Stop Proc Sched, 64
 - TX Client Status, 66
 - TX Queue Status, 66
 - TX Server Status, 67
 - Unload TX Conf, 61
 - Verify Node Inst, 59
 - Verify PS Cfg, 60
 - Verify PS Srv, 60
 - Verify PSSPI Com, 60
 - View APPSRV.LOG, 64
 - View PRCS Config, 62
 - View PRCS Log, 65

- View PS Cfg, 60
- View PSSPI Cfg, 60
- View PSSPI Error, 60
- View PSSPI Trace, 61
- View TUXLOG, 65
- application group
 - PS DB2 Server, 68
 - PSoft-Admin, 68
 - PSoft-Oper, 68
 - PSoft-Reports, 68
 - PSSPI-Admin, 68
- application groups, 57
 - PSoft-Admin, 61
 - PSoft-Oper, 62
 - PSoft-Reports, 65
 - PSSPI-Admin, 57
- assign
 - nodes to node groups, 45
- assignment
 - of services, 90

C

- Cluster Nodes
 - templates, 79
- CODA, 81
- configuration, 34
 - activate nodes, 47
 - assign nodes to node groups, 45
 - database monitoring, 38
 - discovering PeopleSoft Components, 40
 - distribute HPO agents to PeopleSoft systems, 36
 - non-root agent, 50
 - user profiles, 48
 - users, 48
- configuration files
 - PeopleSoft SPI, 112
 - ps.cfg, 116
 - psspi.cfg, 112
 - psspi.disc, 113

D

- database
 - monitoring, 38
- datasources, 93
- DB_HOME, 42
- DB_NAME, 42
- DB_SERVER, 43
- DB_TYPE, 41

Index

DCE agent, 29
de-installation, 30
de-installing
 from managed PeopleSoft system, 30
 from management server, 31
discovery
 Application Servers, 43
 Batch Servers, 43
 of PeopleSoft Components, 40
 of services, 90
 output, 45
 PeopleSoft installation, 40
 strategy, 44
 Web Servers, 44
distribution
 HPO agents to PeopleSoft systems, 36
 instrumentation, 37
 template, 46
domain name
 tuxedo
 DSI restrictions, 81
DSI integration, 81
 tuxedo domain name, 81

E
error logs, 102

F
file locations
 managed nodes, 111
 management server, 110
files
 PeopleSoft SPI configuration, 112
 ps.cfg, 116
 psspi.cfg, 112
 psspi.disc, 113

H
hardware requirements, 23

I
installation, 27
 pre-requisites, 23
 reports, 95
 supported platforms, 25
installing ITO
 preparing the management server, 27
instance view, 87

L
log file
 PSSPI-AppSrvCfgFiles, 71, 119
 PSSPI-AppSrvLogFiles, 71, 119
 PSSPI-DB_LogFile, 74, 75, 76, 119
 PSSPI-OwnLogA, 71, 73, 74, 75, 76, 78, 120
 PSSPI-PracsAppSrvLogFiles, 73, 121
 PSSPI-PracsLogFiles, 73, 121
 PSSPI-TUXLogFiles, 71, 122
 PSSPI-WebLogFiles, 78, 123
log-file scripts, 124

M
managed nodes
 file locations, 111
management server
 file locations, 110
message template
 PSSPI-Messages, 71, 73, 74, 75, 76, 78, 120
monitor
 PSSPI-AppSrvLogSize, 72, 119
 PSSPI-DB2SPI-4792, 74, 120
 PSSPI-DB2SPI-4793, 74, 120
 PSSPI-DBSPI-0791, 76, 120
 PSSPI-DBSPI-0792, 76, 120
 PSSPI-DBSPI-0793, 76, 120
 PSSPI-DBSPI-3791, 75, 120
 PSSPI-DBSPI-3792, 75, 120
 PSSPI-DBSPI-3793, 75, 120
 PSSPI-IPC, 120
 PSSPI-PracsJobTab, 74, 75, 76, 121
 PSSPI-PracsLogSize, 73, 121
 PSSPI-PracsMon, 73, 121
 PSSPI-PracsMon-STAT, 73, 121
 PSSPI-TMIB-001, 72, 121
 PSSPI-TMIB-002, 72, 122
 PSSPI-TMIB-003, 72, 122
 PSSPI-TMIB-004, 72, 122
 PSSPI-TMIB-005, 72, 122
 PSSPI-TMIB-006, 72, 122
 PSSPI-TMIB-007, 72, 122
 PSSPI-TMIB-008, 72, 122
 PSSPI-TMIB-010, 72, 122
 PSSPI-WebMon, 78, 123
 PSSPI-WorkList, 74, 75, 76, 123
monitor scripts, 125

N

node group

- PS App Server, 68
- PS Batch Server, 68
- PS DB2 Server, 68
- PS ORA Server, 68
- PS Web Server, 68
- PS Win MSS Server, 68

node groups, 56

- assigning nodes to, 45

new

- PS App Server, 56
- PS Batch Server, 56
- PS DB Server, 56
- PS ORA Server, 56
- PS Web Server, 56
- PS Win MSS Server, 56

nodes

- assigning to node groups, 45

non-root agent, 50

P

PeopleSoft SPI

- bundles and filesets, 109

configuration files, 112

- ps.cfg, 116
- psspi.cfg, 112
- psspi.disc, 113

file locations

- managed nodes, 111
- management server, 110

PeopleSoft SPI

configuring, 34

de-installing, 30

- managed PeopleSoft system, 30
- management server, 31

getting started, 55

installing, 27

new application groups, 57

new node groups, 56

new templates, 70

new users, 68

PeopleSoft users

new

- psoft-adm, 68
- psoft-op, 68

Performance Agent, 81

platforms

- supported, 25

policies, 118

- repository, 119

pre-requisites, 23

- hardware, 23
- software, 24

PS Activate, 133

ps.cfg, 116

PS_DBNAME, 42

PS_DBOWNER, 43

PS_HOME, 41, 115

PS_VER, 41

psoft-adm, 68

psoft-op, 68

psspi.cfg, 112

- permitted keys, 113

psspi.disc, 113

psspi_tuxcoa.65 collector, 128

psspi_tuxcoa.81 collector, 128

psspi_tuxcoa64.81 collector, 128

PSSPI-AppSrvCfgFiles, 71, 119

PSSPI-AppSrvLogFiles, 71, 119, 124

PSSPI-AppSrvLogSize, 72, 119, 126

PSSPI-DB_LogFile, 74, 75, 76, 119, 124

PSSPI-DB2-Col-05min, 74, 120, 125

PSSPI-DB2SPI-4792, 74, 120

PSSPI-DB2SPI-4793, 74, 120

PSSPI-DBSPI-0791, 76, 120

PSSPI-DBSPI-0792, 76, 120

PSSPI-DBSPI-0793, 76, 120

PSSPI-DBSPI-3791, 75, 120

PSSPI-DBSPI-3792, 75, 120

PSSPI-DBSPI-3793, 75, 120

PSSPI-IPC, 120, 126

PSSPI-Messages, 71, 73, 74, 75, 76, 78, 120

PSSPI-MSSQL-Col-05min, 75, 120, 125

PSSPI-ORACLE-Col-05min, 76, 120, 125

PSSPI-OwnLogA, 71, 73, 74, 75, 76, 78, 120

PSSPI-PrcsAppSrvLogFiles, 73, 121, 124

PSSPI-PrcsJobTab, 74, 75, 76, 121, 127

PSSPI-PrcsLogFiles, 73, 121, 124

PSSPI-PrcsLogSize, 73, 121, 126

PSSPI-PrcsMon, 73, 121, 127

PSSPI-PrcsMon-STAT, 73, 121, 127

PSSPI-TMIB-001, 72, 121

PSSPI-TMIB-002, 72, 122

PSSPI-TMIB-003, 72, 122

PSSPI-TMIB-004, 72, 122

PSSPI-TMIB-005, 72, 122

PSSPI-TMIB-006, 72, 122

PSSPI-TMIB-007, 72, 122

PSSPI-TMIB-008, 72, 122

PSSPI-TMIB-010, 72, 122

PSSPI-TMIB-Col-05m, 72, 122, 128

Index

PSSPI-TUXLogFiles, 71, 122
PSSPI-TuxLogFiles, 124
PSSPI-WebLogFiles, 78, 123, 124
PSSPI-WebMon, 78, 123, 128
PSSPI-WorkList, 74, 75, 76, 123, 129

R

remactconf.xml, 29
Reporter
 datasources, 93
 installation, 95
 reports, 94
requirements
 hardware, 23
 software, 24

S

schedule template
 PSSPI-DB2-Col-05min, 74, 120
 PSSPI-MSSQL-Col-05min, 75, 120
 PSSPI-ORACLE-Col-05min, 76, 120
 PSSPI-TMIB-Col-05m, 72, 122
script
 psspi_act.pl, 133
 psspi_actsvc.pl, 134
 psspi_bldsvc.pl, 135
 psspi_cleanup.pl, 136
 psspi_dbcax.pl, 125, 137
 psspi_dblog.pl, 124
 psspi_df.pl, 138
 psspi_disc.pl, 139
 psspi_inst.pl, 140
 psspi_ipcmon.pl, 126
 psspi_ipcs.pl, 141
 psspi_logifle.pl, 124
 psspi_logsiz.pl, 126
 psspi_pmon.pl, 127
 psspi_prcs.pl, 127
 psspi_pspt.pl, 142
 psspi_shs.pl, 143
 psspi_spicl.pl, 144
 psspi_tmcl.pl, 145
 psspi_tmib.pl, 128
 psspi_verify.pl, 146
 psspi_websrv.pl, 128
 psspi_wrklst.pl, 129
scripts
 log-files, 124
 monitors, 125

service name, 88
services, 85
 activation, 90
 assignment, 90
 discovery, 90
 instance view, 87
 processes, 88
 resources, 88
 system views, 86
software requirements, 24
supported platforms, 25
system view, 86

T

template
 distribution, 46
 PSSPI-DB_LogFile, 77
template groups
 PSSPI-App_Server, 71, 78
 PSSPI-Batch_Server, 73
 PSSPI-DB2DB_Server, 74
 PSSPI-MSSDB_Server, 74
 PSSPI-OraDB_Server, 75
templates, 70, 118
 Cluster Nodes, 79
 repository, 119
tracing, 103
 trace-file fields, 103
troubleshooting
 introduction, 99
 PeopleSoft error logs, 102
 PeopleSoft tracing, 103
 PeopleSoft verification scripts, 101
 PeopleSoft version, 100
 Self-Healing Integration, 105
TUXDIR, 42
tuxedo
 domain name
 DSI integration, 81
 restrictions, 81
TUXVER, 42

U

users, 68
 new
 psoft-adm, 68
 psoft-op, 68

V

versions

HPO server, 26

PeopleSoft, 25

platforms

database server, 26

HPO Agent, 26

web server, 26

Index