

# **HP Operations Smart Plug-in for PeopleSoft**

## **Configuration Guide**

**Version: 2.80**

**For HP-UX and Solaris operating systems**



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**Software Release Date: October 2008**

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## 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
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- Look up HP support contacts
- Review information about available services
- Enter discussions with other software customers
- Research and register for software training

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](http://h20230.www2.hp.com/new_access_levels.jsp)

To register for an HP Passport ID, go to the following URL:

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





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# **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 applications. You can use these functions to create customized HPO applications.



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## **2**

# **Introducing the PeopleSoft SPI**

This section describes the HP Operations Smart Plug-in for PeopleSoft and explains how the various components fit together and work.

## **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

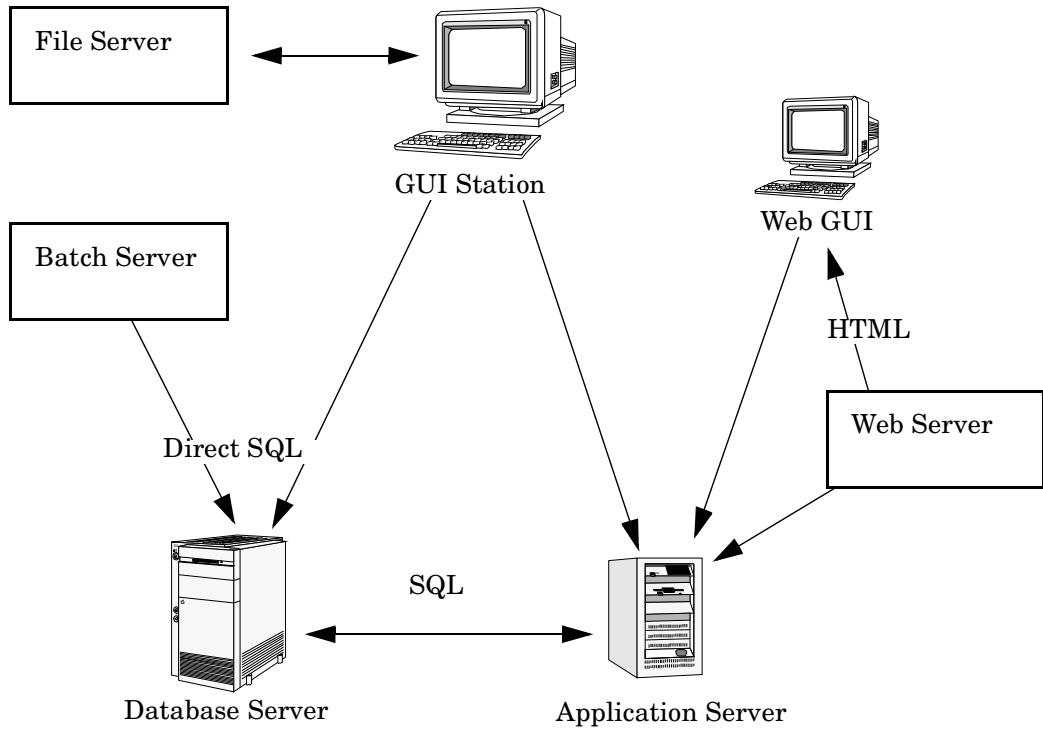
A basic 2-tier installation consists of a GUI station and a database server, where the database server can also run background batch processes. This configuration allows direct access to the database.

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 (templates) and the HPO graphical user interface (GUI), for example: applications, 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
- **Applications:**
  - Applications to manage PeopleSoft-related operating tasks (start/stop Tuxedo domains, PS process scheduler, etc.)
  - Applications to generate status or configuration reports

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## **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 25. 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 <sup>a</sup>	Needed for database access and database related metrics of the PeopleSoft SPI
Smart Plug-in for BEA WebLogic Server	Recommended <sup>b</sup>	Used for detailed WebLogic monitoring (not available on all platforms)
Smart Plug-ins DSI-to-DDF wrapper utilities	Required <sup>c</sup>	Needed for collecting performance data with HP Performance Agent or HP Software Embedded Performance Component
Smart Plug-ins for Windows	Required <sup>d</sup>	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 8.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 25
- “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 7 and 8, using Tuxedo 6.5 and 8.1 which come bundled with PeopleTools. Specifically, the PeopleSoft SPI currently supports the PeopleTools releases: 7.05, 7.5\*, 8.1\*, 8.40 - 8.49.

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

- Tuxedo 6.5 with PeopleTools 7.05 up to 8.43
- Tuxedo 8.1 with PeopleTools 8.44 up to 8.49

### **Supported Versions: HPO Server**

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

## Supported Platforms and Versions

- HPO 07.10 or later
- HPO 08.00, 08.10, 08.20

### 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, 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
- “Preparing the HPO Management Server for swinstall” on page 27
- “Installing the PeopleSoft SPI” on page 28
- “Verifying the Software Installation” on page 30
- “Update remactconf.xml File (HPO 8.x only)” on page 31

### 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 33.

### Preparing the HPO Management Server for swinstall

The HP Operations Smart Plug-in for PeopleSoft is available on the HP Operations for Unix SPI DVD-ROM.

The Applications DVD-ROM contains the product's management server install packages, the HP Reporter and HP Performance Manager integrations for the applications.

Prepare the HPO management server environment for swinstall(1M) as follows:

1. Login as user root.
2. Set the user root's umask, enter:

```
umask 027
```

## Installing the PeopleSoft SPI on the Management Server

3. If not already present, create a directory to mount the DVD-ROM:

```
mkdir /<mount_point>
```

For example:

```
mkdir /dvdrom
```

4. Insert the product DVD in the DVD-ROM drive

5. Mount the DVD-ROM as user root, enter:

```
mount -r -F dvdafs /dev/<dvdrom_drive_name> /<mount_point>
```

For example, for a local DVD-ROM you might enter:

```
mount -r -F dvdafs /dev/dsk/c0t2d0 /dvdrom
```

---

### NOTE

On HP-UX, you can also run SAM and mount the DVD-ROM to a specific path in the Disks and File Systems window.

---

## Installing the PeopleSoft SPI

To install the HP Operations Smart Plug-in for PeopleSoft product bundles using the `swinstall(1M)` command on the command line, perform the following steps:

1. Install the software bundles
  - DSI2DDF (if not already installed)
  - DBSPIOracleAll (if not already installed and if you want to monitor PeopleSoft databases running on Oracle)
  - DBSPIMSSAll (if not already installed and if you want to monitor PeopleSoft databases running on Windows MSS)
  - DB2SPI (if not already installed and if you want to monitor PeopleSoft databases running on DB2)
  - SPIWebLogicAll (if needed and supported and not already installed)
  - SPI-WIN-OVO (if not already installed and if you want to monitor OVO Windows nodes)

- SPI-PSoft

with the command:

For a HP-UX 11.x management server, enter:

```
swinstall -s /dvdrom/HPUX/OV_DEPOT/11.0HPUX.sdtape \  
DSI2DDF \  
DBSPIOracleAll \  
SPIWebLogicAll \  
SPI-WIN-OVO \  
SPI-PSoft
```

For a Solaris management server, enter:

```
swinstall -s /dvdrom/SOLARIS/OV_DEPOT/SOLARIS.sdtape \  
DSI2DDF \  
DBSPIOracleAll \  
SPIWebLogicAll \  
SPI-WIN-OVO \  
SPI-PSoft
```

If any errors occur during the software installation, check the logfile `/var/adm/sw/swagent.log` for more information, correct the problems, and run `swinstall` again.

---

**NOTE**

The `opccfgupld` command does not by default replace existing files, which can lead to a combination of error messages such as; "Object already exists in database" and "Cannot open file [...] File exists (OpC20-63)". For more information, see the `opccfgupld(1M)` man page.

---

## 2. Install HP Reporter integrations

If you have installed one or more of the SPI for Oracle, DB2SPI, SPI for MSS, SPI for BEA WebLogic Server, you may install the OV Reporter integrations provided by the Smart Plug-ins.

For more information about installing and configuring integration packages, see the installation guide for the appropriate Smart Plug-in.

## **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 `swagent.log` for SD 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.
  - **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 55 or “PeopleSoft SPI Components” on page 119.

### **Update remactconf.xml File (HPO 8.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><mgmtsrv/></target>
<source><nodegroup>DCE</nodegroup></source>
<certified>>false</certified>
```

Installing the PeopleSoft SPI

**Installing the PeopleSoft SPI on the Management Server**

```
</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 using the following menu sequence:  
Actions -> Agents -> Install/Update SW & Config ...

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.

## De-installing the PeopleSoft SPI

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 by using the `swremove` command. On the OVO management server, enter:  

```
swremove SPI-PSoft
```
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
  - Applications and Application Groups
  - Message Groups
  - Templates
  - User and User Profiles
4. Remove PeopleSoft Services. On the OVO management server, enter:  

```
opcservice -remove -services PS_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 37
- “Distributing the HPO Agent to the PeopleSoft Systems” on page 38
- “Distributing PeopleSoft SPI Instrumentation” on page 39
- “Configuring the PeopleSoft SPI to Monitor the Database” on page 40
- “Discovering PeopleSoft Components on the Managed Nodes” on page 42
- “Assigning Nodes to Node Groups” on page 47
- “Distributing PeopleSoft SPI Templates” on page 48
- “Activating the Configuration on the PeopleSoft Nodes” on page 49
- “Setting up PeopleSoft Users” on page 50
- “Non-root Agent Support” on page 52

## Setting up PeopleSoft Systems as HPO Nodes

If not already present, add to the Node Bank window those PeopleSoft systems in your environment, which you want to monitor with the HP Operations Smart Plug-in for PeopleSoft. To add a system to the Node Bank, you can use one of the following methods:

1. Open the Node Bank window and use the following menu sequence:  
Actions-> Node-> Add...
2. Select the required systems in the IP map and drag them over and drop them into the Node Bank window.

## 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 actions, commands, and monitors to the PeopleSoft systems which you want the PeopleSoft SPI to monitor, open the Node Bank window and use the following menu sequence:

Actions-> Agents-> Install/Update SW & Config...

Note that distributing the actions, commands, and monitors to the PeopleSoft managed nodes should be done using the `-force` option.

## 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 applications 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 2000 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 39

---

When the `PS Discovery` application 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, that is: the PeopleSoft Home directories defined in `PS_HOME`. The discovery process includes the following steps:

1. User-specified locations:

If the user has specified some installation directories by supplying arguments to the tool `PS Discovery`, take these as `PS_HOME` candidates.

2. Look in common and “often-used” places:

If there is no `PS_HOME` candidate, take the first- and second-level directories of all fixed drives found on the system as candidates.

For each `PS_HOME` candidate, check whether a `peoplesoft.properties` exists. If it does, take the candidate as the installation directory (`PS_HOME`).

## 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.

## Discovering PeopleSoft Components on the Managed Nodes

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

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_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 7.5, PS 8: `<PS_HOME>/appserv/prcs/<DB>`
- PS 7: `<PS_HOME>/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

## Discovering PeopleSoft Components on the Managed Nodes

Apache web server (Unix) and 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 115.

---

#### 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 Apache and BEA 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 Templates**

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

To distribute the PeopleSoft templates to the PeopleSoft systems which you want the PeopleSoft SPI to monitor, open the Node Bank window and use the following menu sequence:

Actions-> Agents-> Install/Update SW & Config...



## 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	PsoftT_admin	PeopleSoft environment administrator
psoft_op	PsoftT_op	PeopleSoft environment operator

Each of these two users has a set of pre-configured applications 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)**

<b>Application Group</b>	<b>PeopleSoft Administrator</b>	<b>PeopleSoft Operator</b>
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**

<b>Message Group</b>	<b>PeopleSoft Administrator</b>	<b>PeopleSoft Operator</b>
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 42.

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 Application 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 58 and “The PeopleSoft SPI Users” on page 71.

The PeopleSoft SPI also provides a large number of applications 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 applications are available in the Smart Plug-in for PeopleSoft, see “The PeopleSoft SPI Tools Groups” on page 59.

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 templates are available, see “The PeopleSoft SPI Policies” on page 73.

## **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 template 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 application groups appear in the top-level PSSPI application group.

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

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

The sections that follow describe the individual PeopleSoft application groups in more detail, list the applications that the groups contain, and explain what the various applications do. Note that the applications 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 application group contains applications intended for HPO administrators who are working specifically on PeopleSoft SPI administration. The applications 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 60 lists the tools in the PSSPI-Admin application group, describes briefly what the each tools does, and indicates the command call used by the application.

**Table 5-1 PSSPI-Admin Tools**

<b>Application Name</b>	<b>Description</b>
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>
Edit PS Cfg	Starts a text editor (set by EDITOR variable or vi if the variable is not set) and opens the PeopleSoft configuration file ps.cfg. Uses the command:  <code>psspi_spicl.pl pscfg -e</code>
Edit PSSPI Cfg	Starts a text editor (set by EDITOR variable or vi if the variable is not set) and opens the PSSPI configuration file psspi.cfg, which contains control options for the PeopleSoft SPI. Uses the command:  <code>psspi_spicl.pl spicfg -e</code>
Get PS Cfg	Retrieves the discovery file from the selected managed nodes and stores them on the HPO management server. Use this application if you have modified the discovery file manually on the managed node. Uses the command:  <code>psspi_spicl.pl getps</code>

**Table 5-1 PSSPI-Admin Tools (Continued)**

Application Name	Description
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>
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>

**Table 5-1 PSSPI-Admin Tools (Continued)**

<b>Application Name</b>	<b>Description</b>
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>
Verify PS Cfg	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:  <code>psspi_verify.pl -d</code>
Verify PSSPI Com	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:  <code>psspi_verify.pl -c</code>
Verify PS Srv	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:  <code>psspi_verify.pl -s</code>

**Table 5-1 PSSPI-Admin Tools (Continued)**

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

### The PSoft-Admin Tools Group

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

---

**NOTE**

All applications in the PSoft-Admin application group run under the `agent_user` account.

---

Table 5-2 on page 64 lists in alphabetical order the various applications in the PSoft-Admin application group, indicates which function is called by each application, and shows and which PeopleSoft interface is used.

**Table 5-2 PSoft-Admin Tools**

Application Name	Description
psadmin	<p>Starts the PeopleSoft command line tool psadmin in a new terminal window. Valid options for psadmin can be used for customization purposes. You can use option <code>-p PS_HOME</code> for multi PeopleSoft environment. Uses the Command:</p> <pre>psspi_inst.pl psadmin</pre>
tmadmin	<p>Starts the Tuxedo command line tool tmadmin in a new terminal window. If necessary, you can specify <code>-d domain_name</code> option to start application for this PeopleSoft domain only. All valid options for tmadmin can be used for customization (before <code>-d</code> option). Uses the command:</p> <pre>psspi_tmcl.pl tmadmin</pre>
tmconfig	<p>Starts the Tuxedo command line tool tmconfig in a new terminal window. If necessary, you can specify <code>-d domain_name</code> option to start application for this PeopleSoft domain only. All valid options for tmadmin can be used for customization (before <code>-d</code> option). Uses the command:</p> <pre>psspi_tmcl.pl tmconfig</pre>



**Table 5-2 PSoft-Admin Tools (Continued)**

Application Name	Description
Unload TX Conf	<p>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 <code>-a</code> will work on all domains, whereas additional argument <code>-d domain</code> will work on the specified domain only. Uses the command:</p> <pre>psspi_tmcl.pl tmunloadc -f</pre>
View PRCS Config	<p>Displays the contents of the PeopleSoft process scheduler configuration file. The function accepts the same options for the selection of the process scheduler as <code>Start Proc Sched</code> in the PSoft-Oper tool group. Uses the command:</p> <pre>psspi_pspt.pl viewcfg</pre>

### The PSoft-Oper Tools Group

This group contains applications 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 applications can be used to perform operational tasks on the PeopleSoft environment such as restarting servers.

---

**NOTE**

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

---

**The PeopleSoft SPI Tools Groups**

Table 5-3 on page 66 lists in alphabetical order the various applications in the PSoft-Oper application group, describes briefly how the individual application works, and indicates which function is called by each application and which PeopleSoft interface is used.

**Table 5-3 PSoft-Oper Tools**

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

**Table 5-3 PSoft-Oper Tools (Continued)**

<b>Application Name</b>	<b>Description</b>
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>
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>

**Table 5-3 PSoft-Oper Tools (Continued)**

<b>Application Name</b>	<b>Description</b>
Stop Proc Sched	Stops a process scheduler process and accepts the same options as Start Proc Sched. Command:  <code>psspi_pspt.pl stop</code>
View APPSRV.LOG	Displays the contents of the APPSRV.LOG log file of a PS domain. Command:  <code>psspi_tmcl.pl viewlog -p</code>
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 application group contains applications intended for HPO users working in information-retrieval mode. The applications are granted read-only rights and may be used to create reports on the PeopleSoft environment. All applications are started as agent user.

Table 5-4 on page 69 lists in alphabetical order the various applications in the PSoft-Reports application group, indicates which function is called by each application, and shows which PeopleSoft interface is used.

**Table 5-4 PSoft-Reports Tools**

<b>Application Name</b>	<b>Description</b>
PS Connections	<p>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:</p> <pre data-bbox="691 713 1243 770">psspi_dbcax.pl -report_on_all_DB -r 1 -m 793</pre>
PS Job Status	<p>Generates a report on the status of all PeopleSoft batch jobs on the selected node. Command:</p> <pre data-bbox="691 927 1243 984">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 data-bbox="691 1112 991 1135">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 data-bbox="691 1260 1243 1317">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 data-bbox="691 1477 1005 1499">psspi_inst.pl version</pre>

**Table 5-4 PSoft-Reports Tools (Continued)**

<b>Application Name</b>	<b>Description</b>
Proc Sched Status	Generates a status report on the PeopleSoft process scheduler. All valid options for the pspt command may be used. Command:  psspi_pspt.pl status
TX Client Status	Generates a report with information on the current PeopleSoft user activity. Command:  psspi_tmcl.pl tmadmin -I pclt
TX Queue Status	Generates a status report on the current PeopleSoft queues. Command:  psspi_tmcl tmadmin.pl -I pq
TX Server Status	Generates a status report on the current PeopleSoft servers. Command:  psspi_tmcl.pl tmadmin -I psr

Note that there is an additional report available to the HPO administrator which generates a report listing the number of managed nodes that require a licence for the HP Operations Smart Plug-in for PeopleSoft and indicating the total number of licenses needed. To access this report from any top-level window in the OVO administrator's GUI, use the following menu sequence:

Actions-> Utilities-> Reports-> PSSPI Licence Report

## 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 71 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	✓	✓
Application 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:

Using the PeopleSoft SPI  
**The PeopleSoft SPI Users**

- 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 template groups which contain all the templates you need to manage the PeopleSoft environment. The following template groups 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 74
- “The PSSPI-Batch\_Server Policy Group” on page 76
- “The PSSPI-DB2DB\_Server Policy Group” on page 76
- “The PSSPI-MSSDB\_Server Policy Group” on page 77
- “The PSSPI-OraDB\_Server Policy Group” on page 78
- “The PSSPI-Web\_Server Policy Group” on page 81

For a complete list of all the templates which the PeopleSoft SPI installs, see “The Template Repository” on page 121. For more information about the scripts which the templates and PeopleSoft SPI monitors use, see “Policies and Templates” on page 120.

---

### CAUTION

You must not assign the top-level SPI for PeopleSoft template group to a node or node group: the SPI for PeopleSoft template group is a container for the other PeopleSoft-specific template 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 template. The templates and template 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 template 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 74 lists the templates in the `PSSPI-App_Server` template group, indicates each template type, and describes briefly what the template monitors. For more information about what, if any, commands the templates call, see “The Template Repository” on page 121.

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**

Template Type	Template 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.&lt;date&gt;</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)**

<b>Template Type</b>	<b>Template Name</b>	<b>Description</b>
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 76 lists the templates in the PSSPI-Batch\_Server template group, indicates each template type, and gives a brief description of what the templates monitor. For more information about what, if any, commands the templates call, see “The Template Repository” on page 121..

**Table 5-7 PSSPI-Batch\_Server Policies**

Template Type	Template 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 77 lists the templates in the PSSPI-DB2DB\_Server template group, indicates each template type, and gives a brief description of what the template monitors.

---

**NOTE** The policies in the PSSPI-DB2DB\_Server template group are intended for PeopleSoft database servers running the DB2 database.

---

For more information about what, if any, commands the templates call, see “The Template Repository” on page 121.

**Table 5-8 PSSPI-DB2DB\_Server Policies**

<b>Template Type</b>	<b>Template Name</b>	<b>Description</b>
Logfile	PSSPI-DB_LogFile	Monitors the database server log table, PS_MESSAGE_LOGPARM. For more information, see “The PSSPI-DB_LogFile Policy” on page 80.
	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 78 lists the templates in the PSSPI-MSSDB\_Server template group, indicates each template type, and gives a brief description of what the template monitors. For more information about what, if any, commands the templates call, see “The Template Repository” on page 121.

---

**NOTE** The policies in the PSSPI-MSSDB\_Server template group are intended for PeopleSoft database servers running the Microsoft SQL Server RDBMS.

---

**Table 5-9 PSSPI-MSSDB\_Server Policies**

<b>Template Type</b>	<b>Template Name</b>	<b>Description</b>
Logfile	PSSPI-DB_LogFile	Monitors the database server log table, PS_MESSAGE_LOGPARM. For more information, see “The PSSPI-DB_LogFile Policy” on page 80.
	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 79 lists the templates in the PSSPI-OraDB\_Server template group, indicates each template type, and gives a brief description of what is monitored. For more information about what, if any, commands the templates call, see “The Template Repository” on page 121.

---

**NOTE** The policies in the PSSPI-OraDB\_Server template group are intended for use with PeopleSoft database servers running the Oracle RDBMS.

---

**Table 5-10 PSSPI-OraDB\_Server Policies**

<b>Template Type</b>	<b>Template Name</b>	<b>Description</b>
Logfile	PSSPI-DB_LogFile	Monitors the database server log table, PS_MESSAGE_LOGPARM. For more information, see “The PSSPI-DB_LogFile Policy” on page 80.
	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 template PSSPI-DB\_LogFile. The template 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 template 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 template sends no messages to the message browser. However, two conditions in the template 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 DTMM\_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 template 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 81 lists the templates in the PSSPI-Web\_Server template group, indicates each template type, and gives a brief description of what is monitored. For more information about what, if any, commands the templates call, see “The Template Repository” on page 121.

**Table 5-11 PSSPI-Web\_Server Policies**

Template Type	Template Name	Description
Logfile	PSSPI-WebLogFiles	Monitors the Apache log file (for PeopleSoft 8)
	PSSPI-OwnLogA	Monitors the psspi.log 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 templates 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 82
- “Enabling the PeopleSoft SPI on Cluster Nodes” on page 83

### 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.

---

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## **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

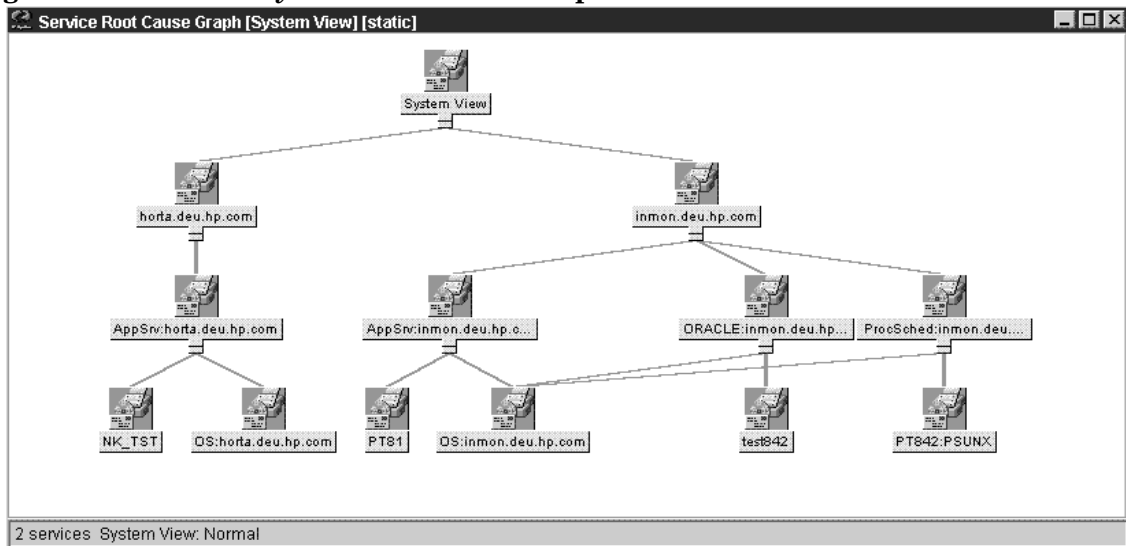
If you are using the Smart Plug-in for PeopleSoft with HP Operations for Unix, you can make use of the HP ServiceNavigator which allows you to display a logical view of all the monitored components in your user environment.

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 88. For more information on the instance view, see “Viewing PeopleSoft Instances” on page 89.

## 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 88 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:

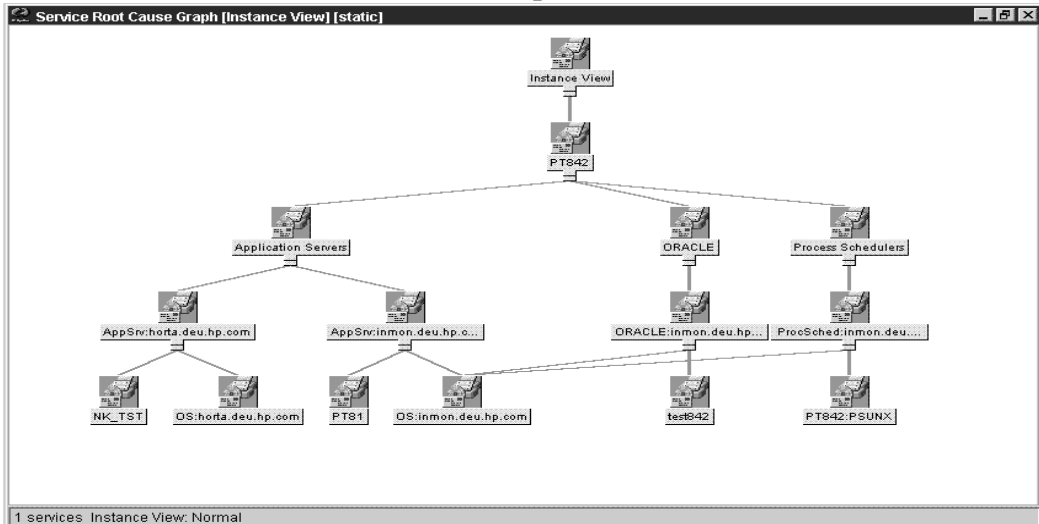
- database servers (ORACLE, MSSQL or DB2)
- application servers (AppSrv)
- batch servers (ProcSched)
- web servers (APACHE or WEBLOGIC)



## 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 89 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 templates 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 applications 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 application group in the Application Bank window.
2. Launch the Build PS Services application to build a Service Navigator model for the PeopleSoft environment. The Build PS Services application uses the information stored in the node-specific configuration files residing in the directories created by the PS Activation application:

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

3. Launch Activate PS Services application 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 application to assign the PeopleSoft Service Navigator model to other users of your choice. To do this, use the Application Parameters field in the Application Customized Startup window to specify the new users for the Activate PS Services application: `-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`

---

---

# **7 HPO Service Reports**

This section describes the Smart Plug-in for PeopleSoft service reports and explains what data the PeopleSoft SPI collects and how.

## **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.



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# 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 applications 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 102.
2. Use the “verification” applications such as `Verify PS Cfg` and `Verify PSSPI Com` in the PSSPI-Admin application group. These applications, 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 103.
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 104.
4. Generate information on the working of the PeopleSoft SPI, enable tracing by running the `PSSPI Trace On` application in the PSSPI-Admin tool group. For more information, see “PeopleSoft SPI Tracing” on page 105.
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 107.

## **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 applications 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 application `PS/TX Versions` which resides in the application 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 applications such as `Verify PS Cfg` and `Verify PSSPI Com` which reside in the application 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 applications are available to assist in the verification procedure, see “The PSoft-Admin Tools Group” on page 63.

## 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 application 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` applications in the `PSSPI-Admin` application group. To set the tracing to the *AUTO* mode use the `PSSPI Trace AUTO` application. 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 105 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)**

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

## **Self-Healing Integration**

To collect troubleshooting data for HP support you can use the application `Self-Healing Info` in the `PSSPI-Admin` application 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 111 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

<b>SD Bundle</b>	<b>Fileset</b>	<b>Description</b>
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 112:

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

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

- 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 113 will reside on the managed node:

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

Description	Location <sup>a</sup>	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 114
- “The psspi.disc Configuration File” on page 115
- “The ps.cfg Configuration File” on page 118

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 115 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 application 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 application `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 1999-2006 Hewlett-Packard Company., All Rights Reserved.
#
#####

#-----
# Global PeopleSoft specific entries for this host.
#-----
OS_VERS;HP-UX B.11.11
#-----
# List of PeopleSoft installations as defined by PS_HOME. Each entry is
# represented by a single line having the following format:
# PS_HOME;PS_USER;PS_VER;PS_DBNAME;DB_TYPE;DB_NAME;DB_SERVER;DB_HOME;
# PS_DOWNER;TUXDIR;TUXVER;TUXBIT
#-----

PS_DB

/opt/PT8.48;psoft;8.48;PT84;ORACLE;PT84;inmon.deu.hp.com;/opt/oracle/product/9.2
.0;SYSADM;/opt/tuxedo;8.1;32
END

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

APPSRV

/opt/PT8.48;TUXDOM;/opt/PT8.48/appserv/TUXDOM/LOGS
END

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

PRCS

/opt/PT8.48;PT84;PSUNX;/opt/PT8.48/appserv/prcs/PT84/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/PT8.48;/opt/PT8.48/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 Application 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 42.

## **The ps.cfg Configuration File**

The `PS Activate` application 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 template and application 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` application in the `PSSPI-Admin` application 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 and Templates

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

Many log-file and monitor templates 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 template by passing the list of instances which are of interest to you to the script, which the template 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` template 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 templates available in the Smart Plug-in for PeopleSoft:

- “The Template Repository” on page 121
- “Log-File Scripts” on page 126
- “Monitor Scripts” on page 127



## The Template Repository

Table B-1 on page 121 lists *all* the policies and templates provided with the Smart Plug-in for PeopleSoft.

**Table B-1 All PSSPI Policies and Templates**

Template Name	Type	Description
PSSPI-AppSrvCfgFiles	Logfile	Monitors changes to the application-server configuration file, <code>psappsrv.cfg</code> . Uses the command call:  <pre>psspi_logfile.pl -s APPSRV -l PSAPPSRVCFG</pre>
PSSPI-AppSrvLogFiles	Logfile	Monitors the application-server log file, <code>APPSRV.LOG</code> , for each PS domain. Uses the command call:  <pre>psspi_logfile.pl -s APPSRV -l APPSRV</pre>
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.&lt;date&gt;</code> files. Uses the command call:  <pre>psspi_logsiz.pl MonitorName AppSrv</pre>
PSSPI-DB_LogFile	Logfile	Monitors the database server log table, <code>PS_MESSAGE_LOGPDM</code> . For more details, see “The PSSPI-DB_LogFile Policy” on page 80. Uses the command call:  <pre>psspi_dblog.pl</pre>

**Table B-1 All PSSPI Policies and Templates (Continued)**

<b>Template Name</b>	<b>Type</b>	<b>Description</b>
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 PSSPI-DBSPI- <i>metric</i> or PSSPI-DB2SPI- <i>metric</i> . Uses the command call:  psspi_dbcax.pl 792,793
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:  psspi_ipcmon.pl <i>MonitorName</i>
PSSPI-Messages	Message	Intercepts messages from the PeopleSoft SPI programs
PSSPI-OwnLogA	Logfile	Monitors the psspi.log log file on a managed node.

**Table B-1 All PSSPI Policies and Templates (Continued)**

Template 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 and Templates (Continued)**

<b>Template Name</b>	<b>Type</b>	<b>Description</b>
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-Co1-05m <sup>a</sup>	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 and Templates (Continued)**

Template 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 scheduled template into multiple templates 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 127.

## Log-File Scripts

Table B-2 on page 126 lists the scripts used by the log-file templates.

**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 127 lists the scripts used by the PeopleSoft SPI monitors.

The PeopleSoft SPI monitor scripts (in conjunction with the corresponding HPO monitor templates) 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* template 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 templates 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-PrsLogSize 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><b>TMIB Collector:</b> 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)**

<b>Script Name</b>	<b>Used by Monitor</b>	<b>Description</b>
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 application calls. You can use these functions to create customized HPO applications.

## **In this Section**

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

- “The psspi\_act.pl Command” on page 135
- “The psspi\_actsvc.pl Command” on page 136
- “The psspi\_bldsvc.pl Command” on page 137
- “The psspi\_cleanup.pl Command” on page 138
- “The psspi\_dbcax.pl Command” on page 139
- “The psspi\_df.pl Command” on page 140
- “The psspi\_disc.pl Command” on page 141
- “The psspi\_inst.pl Command” on page 142
- “The psspi\_ipcs.pl Command” on page 143
- “The psspi\_pspt.pl Command” on page 144
- “The psspi\_shs.pl Command” on page 145
- “The psspi\_spicl.pl Command” on page 146
- “The psspi\_tmcl.pl Command” on page 147
- “The psspi\_verify.pl Command” on page 148

## 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` application. More details can be found in the chapter “Activating the Configuration on the PeopleSoft Nodes” on page 49.

**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 92.

**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.

<b>NAME</b>	<code>psspi_bldsvc.pl</code>
<b>SYNOPSIS</b>	<code>psspi_bldsvc.pl</code>
<b>DESCRIPTION</b>	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 92.
<b>EXIT VALUES</b>	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.

<b>NAME</b>	<code>psspi_df.pl</code>
<b>SYNOPSIS</b>	<code>psspi_df.pl [fs1 fs2 ...]</code>
<b>DESCRIPTION</b>	The command <code>psspi_df.pl</code> Displays statistics on file systems <i>fs1</i> , <i>fs2</i> and their usage.
<b>EXIT VALUES</b>	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_home ] [ -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_HOME` for discovery; *ps\_home* must be *one* single parameter, i.e. must be quoted if containing spaces. There can be several parameters `-path ps_home`, if the command is intended for several servers.
- `-ver` can be use 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 42.

**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:

- psadmin
- 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 an application 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. When the command is run from HPO Management Server on Windows nodes the command can be used only in a batch mode (no input from user is possible).

**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_HOME`s. 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_HOME`s. 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)`
- `pscfg -e(dit)` (Only for Unix managed node)
- `setcfg <LABEL> <VALUE>`
- `spicfg -d(isplay)`
- `spicfg -e(dit)` (Only for Unix managed node)
- `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** `psspi_verify.pl`

**SYNOPSIS** `psspi_verify.pl [-c|-d|-n|-s]`

**DESCRIPTION** The command `psspi_verify.pl` 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 `ps.cfg` 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.

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