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# HP Operations Smart Plug-in for SAP

For HP Operations Manager for UNIX®

## Release Notes

Software version: 12.00/ December 2009

This document provides an overview of the changes made to the HP Operations Smart Plug-in for SAP (SPI for SAP). It contains important information not included in the manuals or in online help.

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## In This Version

This version of the SPI for SAP includes new features, feature enhancements, and other changes.

- **SAP NetWeaver 7.1:** With the help of a new set of policies, you will be able to monitor the health and performance of the J2EE engine in your SAP NetWeaver environment. The new monitoring policies are added under SAP Net weaver Monitoring 7.1 policy group.
- **Management server support:** The current release of the SPI for SAP supports the following version of HPOM for UNIX: 9.0x.
- **Reports:** The current version of the SPI for SAP introduces several new report templates for NetWeaver 7.1 to generate reports with the help of HP Reporter.
  - Opened Sessions
  - Transaction Count
  - Message Status Count
- Linux x64 and IPF 64 native support for Red Hat EL 5.1 platform.
- Service Discovery is supported for SAP NetWeaver Java stack.
- Password Encryption/Decryption for JMX Configuration using TripleDES.
- SAP Netweaver 7.1 is supported on multiple instances.

## Documentation Updates

The first page of this release notes document contains the following identifying information:

- Version number, which indicates the software version.

- Publish date, which changes each time the document is updated.

To check for recent updates or to verify that you are using the most recent edition, visit the following URL:

**<http://h20230.www2.hp.com/selfsolve/manuals>**

This site requires that you register for an HP Passport and sign-in. To register for an HP Passport ID, go to:

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

Or click the **New users - please register** link on the HP Passport login page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

**NOTE:** To view files in PDF format (\*.pdf), Adobe Acrobat Reader must be installed on your system. To download Adobe Acrobat Reader, go to the following web site:

**<http://www.adobe.com/>**

## Installation Notes

Installation requirements, as well as instructions for installing the SPI for SAP, are documented in the *SPI for SAP Installation and Configuration Guide* provided in Adobe Acrobat (.pdf) format. The document file is included on the product's DVD media as:

<DVD-Drive>/Documentation

After installation the document can be found at:

/opt/OV/paperdocs

## Supported Platforms

Refer to the Support Matrix (SUMA) link for the supported HP Operations Manager, Databases applications, HP Performance Agent, HP Performance Manager, and HP Reporter version.

**<http://support.openview.hp.com/selfsolve/document/KM323488>**

For information on the archived obsolescence programs, refer to the Obsolescence Archive link

**[http://support.openview.hp.com/encore/om\\_spis\\_2009.jsp](http://support.openview.hp.com/encore/om_spis_2009.jsp)**

## Upgrade Notes

Be aware of the following limitations when you plan to install the SPI for SAP 12.00 from SPI DVD 2009 on a HPOM 9.0x, which has the SPI for SAP 11.00 installed from SPI DVD 2008.

- You must complete the migration process from HPOM 8.xx to HPOM 9.0x before upgrading the SPI for SAP to version 12.00. Once the SPI for SAP 12.00 is installed, migrating from HPOM 8.xx is not supported.
- Having the SPI for SAP 11.00 (migrated from HPOM 8.xx) and SPI for SAP version 12.00 (newly installed from SPI DVD 2009) on HPOM 9.0x is an intermediate mode and you must move all managed nodes to the SPI for SAP 12.00 as soon as possible.
- If you have multiple SPIs deployed on a managed node, the node can be monitored either by SPI DVD 2008 SPIs or SPI DVD 2009 SPIs. Monitoring a node by combination of SPIs from SPI DVD 2008 and SPI DVD 2009 is not supported.

- If you have the SPI for SAP 12.00 installed on HPOM 9.0x systems, which also has the SPI for SAP 11.00 as well, the following points are true.
  - You must configure newly added managed nodes using the SPI for SAP 12.00.
  - No configuration is possible on the existing or old managed nodes monitored by the SPI for SAP 11.00.

This is because the SPI for SAP 11.00 configuration tools are overwritten by the SPI for SAP 12.00 tools and these tools are incompatible.

- Patches for the SPI for SAP 11.00 must be installed before you start the HPOM migration process. Once the SPI for SAP 12.00 is installed, no patches or hot-fixes pertaining to the SPI for SAP 11.00 could be installed on the HPOM server.
- To invoke the GUIs related to SPI for SAP 12.00, you must install X-windows client software on the machine from which you will launch the HPOM for UNIX 9.0x server Operator GUI.
- Installing patches that would be released in the future for the SPI for SAP 11.00 are not supported on HPOM for UNIX 9.0x after migration. However, patch can be installed on the HPOM for UNIX 8.xx server and migrated to HPOM for UNIX 9.0x environment.
- After migration from HPOM 8.xx to HPOM 9.0x, when you run license reporting tool from HPOM 9.0x, errors would be reported. This is an expected behavior. You can ignore the error.
- You must take a backup of the content in the `/opt/OV/SAPSPI/bin` directory before upgrading the SPI for SAP to the new version available in SPI DVD 2009, in case you want to reuse the old content. When you upgrade the SPI to the new version, the old content in the `/var/opt/OV/share/conf/sapspi` directory will be lost permanently.

### Upgrade Limitation

The SPI for SAP 12.00 does not work as expected if the migration from HPOM 8.xx to HPOM 9.0x is done after installing the SPI for SAP 12.00 on HPOM 9.0x.

*Workaround* : You must complete the migration process from HPOM 8.xx to HPOM 9.0x before upgrading SPI for SAP from 11.00 to 12.00 versions. The SPI for SAP 12.00 does not work as expected if the migration from HPOM 8.xx to HPOM 9.0x is done after installing the SPI for SAP 12.00 on HPOM 9.0x.

## Enhancements and Fixes

To display details about each software enhancement or fix, click the reference number link to go to the HP Software Online Support web site. The first time you click a link, you must enter your HP passport information. To set up your passport profile, go to:

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

### Enhancements:

The following enhancements are made in the current release of SPI for SAP. You can click the reference number that links to the HP Software Online Support web site.

[QCCR1A25801](#) : Enhancement request for r3monale

[QCCR1A25721](#): r3monale does not allow to filter on message types

[QCCR1A25715](#) : r3monale should filter on message types as well

[QCCR1A59157](#) : Request of integration information and support with OVPA

[QCCR1A25850](#) : r3perfagent stops immediately after starting it

[QCCR1A25875](#) : Can't get SAP SPI to launch SAP GUI

## Fixes

The following fixes are made in the current release of SPI for SAP. You can click the reference number that links to the HP Software Online Support web site.

[QCCR1A25624](#) : Service Discovery for a cluster creates MAP with wrong Host Name

[QCCR1A25812](#) : SAP SPI messages from virtual nodes not shown in service tree

[QCCR1A72381](#): r3mondisp doesn't find dpmonPath

[QCCR1A91886](#) : Upgrading R3PERF doesn't install new datasources

[QCCR1A92879](#): File name collision detected upon distribution of instrumentation to HTTPS nodes

[QCCR1A98184](#) : Performance Monitor metrics STATRECS\_PERF and WLSUM\_PERF DataCollection issue

[QCCR1A97931](#) : r3monusr ignores APSEVER setting

[QCCR1A62345](#) : r3monwpa returns CONFIG\_DATA\_ERROR with OPMODE configured

## Known Problems, Limitations, and Workarounds

This section lists known problems that could not be fixed before the release of the SPI for SAP software.

### Uploading the Service Configuration File to HPOM

When you upload the Service Configuration File to HPOM from the command line, the following message appears:

```
Converting deprecated old-style service file to XML ... (please use XML in future)
```

*Workaround:* Ignore this message.

### SAP GUI

The SAP GUI is needed for many operator-initiated actions defined in the SPI for SAP, but it is not part of the SPI for SAP installation media.

*Workaround:* Install the SAP GUI binary on the HPOM management server and any remote consoles. The SAP GUI binary is included on the SAP "Presentation" CD.

### User Monitor values differ from SM04

The number of logged in users reported by the collector is different to the number users shown in the SAP transaction SM04.

*Workaround:* The difference is based on the fact that the collector counts the 'itouser' as a fully logged-in user. Therefore some differences between the two numbers can occur.

## Message duplication and slow performance if host configured twice

Monitors of type snapshot send duplicate messages to the message browser and the overall performance of the SPI for SAP is very slow.

*Workaround:* Check to see if you have entered a managed node twice in any of the configuration files, for example: once using a short host name (sapsystem) and once using a fully qualified name (sapsystem.domain.company.com). If there are two entries, the monitor binaries will open two connections to the SAP system for each monitor call, thus consuming more resources and sending messages twice. Each system must be configured only once in the configuration files, preferably with its fully qualified name.

## Poor Performance of Monitors

The SPI for SAP monitors take a very long time to obtain information from the SAP system.

*Workaround:* Check how often you use the CP (Contains Pattern) option in your configuration files. The CP option consumes both time and system resources. You should try as much as possible to replace the CP option with an EQ operation. If this is not feasible, try to avoid using a fully unqualified CP, for example; CP\*. Instead, try whenever possible to qualify the CP option with a pattern, for example; CP MY\_JOB\*.

## SPI for SAP service reports error 534

Some SPI for SAP reports are missing or empty, and "ERROR 534" messages appear in the HP Reporter status pane.

*Workaround:* Check whether any systems are available under the SAP R/3 group under "Discovered Systems" in Reporter. Since the SPI for SAP reports show the data collected from the systems available in the SAP R/3 group, there should be at least one system with sufficient data under this group.

If systems are available, then check whether required data is available in the reporter database tables, or run gatherCoda command against the systems in the SAP R/3 group to collect the data.

Error 534 can also occur when the reporter database or the table structure is missing or outdated. Check whether the reporter DSN is configured to the right reporter database.

## No statistical records from the performance monitors

No statistical records are provided by the SPI for SAP performance monitors.

*Workaround:* You need to ensure that you have written the r3perfstat.cfg settings into the SAP System after adding all login information into the r3itosap.cfg file. To write the new configuration you have saved in the r3itosap.cfg file to the SAP System, select the appropriate SAP system in the navigation pane and launch the "Write Statistical Records" application, which you can find in the "SAP R/3 Admin" application group.

## Service discovery fails to discover SAP instances on Microsoft Windows managed nodes

If the service-discovery tool, r3sd, is running under the system account and the SAP installation directory is specified in UNC syntax, for example; "\\server...", SAP instances are not discovered for managed nodes running Microsoft Windows, and the R3-Info tool completes its run but does not produce any output.

*Workaround:* Either specify a local path to the SAP installation using the environment variable SAPOPC\_SAPPROFILEDIR (only possible on SAP central instances), or configure the HPOM agent to run under a different user account to enable it to access network paths using the UNC notation.

## Multiple thresholds not allowed with r3monjob

You cannot configure r3monjob to send a WARNING message if the run time for a batch job exceeds 5 minutes and then a CRITICAL message if the run time for the same batch job exceeds 10 minutes.

*Workaround:* With the current version of the SPI for SAP, it is not possible to configure more than one threshold with the same alert type for a given batch job.

## r3monpro requires r3status history file

The SAP process monitor r3monpro cannot determine the status of the SAP systems it is monitoring. As a result, it assumes that the SAP instance is available and does not suppress any messages.

*Workaround:* r3monpro needs to know where to find both its own history file r3monpro.his and, in addition, the r3status history file r3status.his, which it uses to determine whether a monitored SAP instance is available or not. Both history files must reside in the location defined by the HistoryPath keyword in r3monpro's configuration file r3monpro.cfg. If r3monpro cannot locate the r3status.his history file, it assumes that the monitored SAP instance is available, and does not suppress any messages. Make sure that the history files r3monpro.his and r3status.his reside in the same location and this location is known to the r3monpro monitor. You can define the location of the monitor history files either with the environment variable SAPOPC\_HISTORYPATH or the keyword HistoryPath[Unix | Windows | AIX].

## Multiple Instances not supported on SAP Netweaver 7.0

Multiple instances are not supported on SAP Netweaver 7.0.

*Workaround:* The SAP Netweaver 7.0 java instance monitoring is possible through remote monitoring, but not multiple instance support. For more information, see [QCCR1A91931](#).

## Version Verify Tool

Few files are missing when you execute the version verify tool.

*Workaround:* For more information, see [QCCR1A99193](#).

## SAP GUI: Operator initiated actions will not work on HP-UX (IA 64)

SAP does not support the SAP GUI on HP-UX/Itanium. The SPI for SAP functionality that depends on an SAP GUI being installed on the HPOM management server is not available when installing the HPOM management server on Itanium.

## Documentation Errata

This section lists errors or omissions in the current SPI for SAP product documentation, which could not be corrected before the product release.

The following are the issues related to WLSUM performance monitor that could not be documented in the *HP Operations Smart Plug-in for SAP Reference Guide*.

### Performance Metrics: WLSUM\_PERF and DOCTSTAT

The new SPI for SAP performance monitors, DOCSTAT and WLSUM\_PERF, do not collect any data.

*Workaround:* In order to collect useful data from the SAP performance component, you have to schedule the SAP report RSCOLL00 to run once an hour on your SAP R/3 System. For more information about how to schedule standard reports or jobs in a SAP component, see the SAP OSS note 16083.

### Reports do not show data from the hour between 00:00 and 01:00

Work-load and user reports using data gathered by the SPI for SAP performance monitor WLSUM\_PERF do not show any results for the period between midnight (00:00) and 1 a.m. (01:00).

*Workaround:* This is due to a difference between the way SAP and the SPI for SAP handle time. Try to avoid scheduling reports to start between 00:00 and 01:00: schedule reports to run after 01:30 instead.

### SPI for SAP WLSUM reports show irregular values for continuous data

The SPI for SAP WLSUM reports show irregular values for data that normally should be continuous. For example, a report for an SAP System normally displays around 1000 dialog steps per hour, but for one hour it displays no steps at all, and for the following hour it displays 2000 steps, which is double the usual amount.

*Workaround:* The data collection for the WLSUM monitor is based on the internal SAP job COLLECTOR\_FOR\_PERFORMANCEMONITOR. If this job does not run correctly or at the correct time, the data usually collected by the WLSUM\_PERF monitor run will only be picked up by subsequent runs of the SPI for SAP performance monitor and, as a result, displayed in the wrong place. Note that you can use the SPI for SAP job monitor, r3monjob, to monitor the behavior of the internal SAP performance-collector job COLLECTOR\_FOR\_PERFORMANCEMONITOR.

## Local Language Support

The SPI installers obtain the HPOM locale on Unix using the LANG variable set in ctrl.env namespace before proceeding with the SPI installation. Verify if this setting is done, using `#/opt/OV/bin/ovconfget ctrl.env LANG`

If the ctrl.env namespace is not set (empty) by the HPOM, run the following command on the HPOM Server before starting the SPI installation:

```
#ovconfchg -ns ctrl.env -set LANG <HPOM locale>
```

where <HPOM locale> could be C, ja\_JP, ko\_KR, or zh\_CN

Example: `ovconfchg -ns ctrl.env -set LANG ja_JP`

Depending on the <HPOM locale> value, the LANG variable in the ctrl.env namespace will then be set to C.utf8, ja\_JP.utf8, ko\_KR.utf8, or zh\_CN.utf8 and used by the installer.

## Support

You can visit the HP Software support web site at:

**[www.hp.com/go/hpsoftwaresupport](http://www.hp.com/go/hpsoftwaresupport)**

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

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- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into 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 sign in. Many also require an active support contract. To find more information about support 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)**

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