

HP OpenView Smart Plug-in for UNIX Operating Systems

for the UNIX operating system

Release Notes

Software version: A.03.50 / 14 October 2005

This document provides an overview of the changes made to Smart Plug-in for UNIX Operating Systems (OSSPI) A.03.50 for the HP OpenView Operations for UNIX (OVO) 8.10. It contains important information not included in the manuals or in online help.

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In This Version

The features added are as follows:

- Enhanced integration with OpenView Performance Agent (OVPA)
OSSPI features enhanced integration with OVPA, which reduces the size of the alarmdef file. This facilitates in monitoring disks and networks efficiently.
- Partially removed hardware monitoring feature
The `oss_pi_defect` binary file that checks Small Computer System interface (SCSI) disks for defects fails if the device driver of the SCSI disk does not support the binary file. Therefore, the binary file and the `oss_pi_defectmon.sh` script are removed to improve the functionality of the OSSPI. The discovery process does not check for defective sectors in the disk because of the partial removal of hardware monitoring feature.
- Dependency on Service Discovery Framework
The OSSPI is now dependent on the new version of Service Discovery Framework (SDF) A.02.10.
- Integration with IBM AIX 5.3 HTTPS agent
The OSSPI now integrates with an IBM AIX 5.3 node with HTTPS agent.

Renamed Policy Group

The `OSSPI_HPUX_MEASUREWARE` policy group is renamed to `OSSPI_HPUX_OVPA`.

Changed Policies

The following tables list the changes made to the policies. The numeric suffixes of all OSSPI policies are removed and the rule names of the policies are modified. For example, the `OSSPI-AIX_HACMP_1` policy is now `OSSPI-AIX_HACMP`.

Monitor File Policies

The changes made to the monitor file policies are as follows. The Service ID for all the monitor file policies is changed from `MSG_NODE_NAME` to `MSG_NODE_ID`.

Policy	Changes
OSSPI-CD_Mem_Load	Metric name is modified from <code>GBL_MEM_PAGEOUT_RATE</code> to <code>GBL_MEM_UTIL</code>
OSSPI-kmon	Service ID for all conditions is changed to <code>OSSPI:kernel@@<\$MSG_NODE_ID></code>
OSSPI-mailperm	The default application setting is changed from Sendmail to HP OSSPI. The automatic message correlation feature is added to this policy.
OSSPI-mailqueue	The default application setting is changed from Sendmail to HP OSSPI. The automatic message correlation feature is added to this policy.
OSSPI-mount	The polling interval is changed from 1 hour to 20 minutes. The automatic message correlation feature is added to this policy.
OSSPI-NetInterfaces	The action under the Network Interface down [OSSPI-NetInterfaces.2]condition is changed from automatic

	<p>action to operator-initiated action. This change is as follows: AUTOACTION ifconfig <MSG_OBJECT> inet up ANNOTATE to OPACTION ifconfig <MSG_OBJECT> inet up ANNOTATE ACK</p> <p>The automatic message correlation feature is added to this policy.</p>
OSSPI-NP-Filesystem	<p>The monitor program call is changed from osspi_fsmon.pl OSSPI-NP-Filesystem_2 to osspi_perl.sh osspi_fsmon.pl -m OSSPI-NP-Filesystem</p> <p>The polling interval is changed from 10 minutes to 30 minutes.</p> <p>The automatic message correlation feature is added to this policy.</p>
OSSPI-printenable	<p>The monitor policy type is changed from MINTHRESHOLD to MAXTHRESHOLD</p> <p>The default application setting is changed from lp to HP OSSPI</p>
OSSPI-veritas	<p>The polling interval is changed from 1hour to 10 minutes.</p> <p>In the Check for Failed Disk which is not discovered in hardisk.cfg condition, the Service ID is changed from OSSPI:veritas:<dg>@@<MSG_NODE_ID> to OSSPI:<dg>:<dm>@@<MSG_NODE_ID></p> <p>In the Check for Bad Sub Disks condition, the object pattern is changed from Badsd:<*.dg>:<*.sd>:<*.volume> to Badsd:<*.dg>:<*.sd></p> <p>In the Check for Bad Plexs condition, the Service ID is changed from OSSPI:veritas:<dg>:<volume>@@<MSG_NODE_ID> to OSSPI:<dg>:<plex>@@<MSG_NODE_ID></p> <p>In the Monitor if plex is on volatile disk condition, the Service ID is changed from OSSPI:veritas:<dg>:<volume>@@<MSG_NODE_ID> to OSSPI:<dg>:<volume>@@<MSG_NODE_ID></p>
OSSPI-vg	<p>Swapped the order of PE very low [OSSPI-vg.1] and PE low [OSSPI-vg.2] conditions.</p>

Log File Policies

The changes made to the log file policies are as follows. The Message on no logfile flag is set for all log file policies. The Service ID for all the log file policies is changed from MSG_NODE_NAME to MSG_NODE_ID.

Policy	Changes
OSSPI-AIX-AuditLog	The default service name (OSSPI:os:svc@@<\$MSG_NODE_ID>) is added to this policy.
OSSPI-AIX-KernelLogs	The polling interval is changed from 61 seconds to 1 minute and 1 second. The default service name (OSSPI:os:kernel@@<\$MSG_NODE_ID>) is added to this policy.
OSSPI-AIX-Logins	The default service name (OSSPI:os:users@@<\$MSG_NODE_ID>) is added to this policy.
OSSPI-HPUX-Boot	The default service name (OSSPI:os:svc@@<\$MSG_NODE_ID>) is added to this policy.
OSSPI-Linux-Boot	The default service name (OSSPI:os:svc@@<\$MSG_NODE_ID>) is added to this policy.
OSSPI-SOL-syslog	The default service name (OSSPI:os:svc:syslog@@<\$MSG_NODE_ID>) is added to this policy.
OSSPI-Tru64-cronlog	The default service name (OSSPI:os:svc:cron@@<\$MSG_NODE_ID>) is added to this policy.
OSSPI-Veritas_log	The default service name (OSSPI:veritas@@<\$MSG_NODE_NAME>) is added to this policy.
OSSPI-dnsstat	The default service name (OSSPI:os:svc:dns@@<\$MSG_NODE_ID>) is added to this policy. The suppression time interval is changed to 24 hours.

Interface Policies

The Service ID for the policy is changed from MSG_NODE_NAME to MSG_NODE_ID for all interface policies. The other change made is as follows.

Policy	Changes
OSSPI-opcmsg	The default suppression interval for duplicate messages is changed to 6 hours. The Trace level change alert [OSSPI-opcmsg.25] condition is added to this policy.

OpenView Performance Agent Policies

The changes made to the OVPA policies are as follows.

Policy	Changes
OSSPI-MWA_AIX_Cpu_Load OSSPI-MWA_AIX_Disk OSSPI-MWA_AIX_Mem_Load OSSPI-MWA_Cpu_Load OSSPI-MWA_Disk OSSPI-MWA_Flock_Tbl OSSPI-MWA_Fopen_Tbl OSSPI-MWA_Lan_Coll OSSPI-MWA_Linux_Cpu_Load OSSPI-MWA_Linux_Mem_Load OSSPI-MWA_Mem_Load OSSPI-MWA_Msg_Tbl OSSPI-MWA_NetworkAdapter OSSPI-MWA_Proc_Tbl OSSPI-MWA_SOL_Cpu_Load OSSPI-MWA_SOL_Disk OSSPI-MWA_SOL_Mem_Load OSSPI-MWA_Sema_Tbl OSSPI-MWA_Shmem_Tbl OSSPI-MWA_Swap_Res OSSPI-MWA_True64_Cpu_Load OSSPI-MWA_True64_Disk OSSPI-MWA_True64_Mem_Load	<p>The condition interval for the listed policies is changed to five minutes.</p> <p>The <code>LOOP</code> or <code>NOLOOP</code> parameters are added to the listed policies. You can use the <code>LOOP</code> parameter to reduce the size of the alarmdef file generated when monitoring objects such as disks or networks. You can use the <code>NOLOOP</code> parameter to disable this option.</p>

Policies Removed

The policies removed are as follows:

- OSSPI-defect_long
- OSSPI-defect_short

Removal of the `OSSPI-defect_long` and `OSSPI-defect_short` policies stops the creation of the `osspi_defect.cfg.long` and `osspi_defect.cfg.short` files. This improves the functionality of the OSSPI by partially removing the hardware monitoring feature.

Supported OSSPI Versions for Upgrade

The OSSPI versions supported for an upgrade to this version are as follows:

- A.02.5x
- A.03.00
- A.03.10

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://ovweb.external.hp.com/lpe/doc_serv/

- 1 In the Product list, click the product name.
- 2 In the Version list, click the version number.
- 3 In the OS list, click the OS type.
- 4 In the document list, click the document title.
- 5 To retrieve the document, click **Open** or **Download**.

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 URL:

<http://www.adobe.com>

Installation Notes

You must make sure that the latest patches for the OVO management server and the agents are installed. To use the service map functionality of the OSSPI, you must install the latest patches available for the Service Navigator. You can download these patches from the OVO support website.

The following OSSPI scripts are present in the OVO/UNIX SPI CD in the <CDROM>/OV_DEPOT/UNIXOSSPI/<LANG> directory:

- `unix_ossapi_setup`
- `unix_ossapi_questions`
- `unix_ossapi_install`
- `unix_ossapi_remove`

Run the `unix_ossapi_setup` script to install the UNIX OS SPI depot.

Prerequisites for Installing UNIX OS SPI

You must make sure that the Service Discovery Framework (SDF) version A.2.10 and Self-Healing Service (SHS) are installed on the management server prior to the installation of UNIX OS SPI.

Installation of `xpg4` package is a prerequisite for installing UNIX OS SPI on a Sun Solaris-based management server.

Installation requirements, as well as instructions for installing OSSPI, are documented in the *Installation Guide for Smart Plug-in for UNIX Operating Systems* provided in Adobe Acrobat (.pdf) format.

Enhancements and Fixes

The following items (identified by error tracking number) are fixed in the current software release.

- QXCR1000224610: Osspi_SunCluster.pm not shipped with Unix OS SPI 3.10
- QXCR1000196904: osspi_nprcs cores on HPUX 11.23, because referencing libOvSecCm.sl instead .so
- QXCR1000200067: OSSPI package to perform the prereq check
- QXCR1000203309: I18N: template group description is in English
- QXCR1000225570: OSSPI installation fails on Solaris 10
- QXCR1000241333: opccfgupld in OSSPI postinstall-script runs with swagentd's LANG.
- QXCR1000232396: OSSPI should not use /etc folder to support non-root scenarios
- QXCR1000225757: Need monitor the processes with long argument lines
- QXCR1000223849: osspi 3.x is not able to monitor processes with very long paths
- QXCR1000113409: Error in parse_softpartition function of osspi_sds_common script
- QXCR1000200166: AIX: Versioninfo appl. didn't work
- QXCR1000200757: osspi_discmod.volgrp.sh script skips MC/SG filesystems
- QXCR1000214498: Cannot monitor the procmon and fsmon for FQDN node
- QXCR1000221724: AIX-HTTPS agent needs OV_DATADIR path change in UnixOSSPI
- QXCR1000234130: OS Tool, reboot does not work for AIX5.3 HTTPS agent
- QXCR1000234327: Process monitoring policy script fails to run as perl not found
- QXCR1000234339: FS unmount tool failed to remove the mount point
- QXCR1000234366: mail queue script failed due to invalid monitor value
- QXCR1000234945: AIX (HTTPS) Certification :Opcagtinfo file path should be changed
- QXCR1000281848: Discovery application failed on Hpx node in 11_UNIXOS_SPI_A.03.50_IC1.sdtape
- QXCR1000283435: Some Template groups are empty
- QXCR1000283119: "File Systems" icon not present in the service map
- QXCR1000283109: New Documents for unixosspi version 3.50 not included in package
- QXCR1000233539: OSSPI conf files should have same tree between English and Japanese
- QXCR1000231561: osspi_alarmdef generation does not add MC/SG filesystems
- QXCR1000246189: remove references to osspi_procmon.sh from manual
- QXCR1000220492: Documentation error regarding file fsmon_local.cfg
- QXCR1000204179: OSSPI Admin Ref - wrong reference(s) to 'Management Server' policy group
- QXCR1000230434: Admin Manual incorrect concerning template assignment check
- QXCR1000246188: OSSPI 3.0 documentation wrong

- QXCR1000281388: Change conditions to use <\$MSG_NODE_ID> instead of <\$MSG_NODE_NAME>
- QXCR1000279987: Service discovery: documentation:Admin_reference_Guide
- QXCR1000220756: documentation bug in OSSPI admin manual
- QXCR1000200084: OSSPI install.pdf missing prereqs
- QXCR1000139709: I18N: OSSPI-scmsg_1 template doesn't work properly

Known Problems, Limitations, and Workarounds

- Cron job messages are generated by two OSSPI templates- Two identical messages are generated each time (one in English and the other in Japanese) from the following message source templates:

- Cron (Solaris) under "Default: Solaris" template group, Message "fetch 'cron | at | batch command failed' messages" generates message in Japanese.

- OSSPI-SOL-Cron_1 under "Operating System SPIs->SOLARIS->QuickStart Solaris Policies" template group Message "fetch 'cron | at | batch command failed'messages" generates message in English

These messages are generated in OSSPI A.03.x on OVO 7.x (Japanese) version

Workaround- Suppress either of these conditions by modifying the relevant policy conditions.

- Tools do not function on Red Hat Linux AS 2.1- The following OSSPI applications fail to launch the xterm window when run from the OVO application bank:
 - Disk space
 - Print status
 - Processes

Workaround- On the Linux node, check if it is possible to switch the user to the opc_op mode. If this fails due to insufficient permissions, run the command `#chmod -R 755 /home/opc_op` after logging in as root.

- Services are not discovered on Debian Linux 3.0r1- Services are be discovered on Debian Linux 3.0 R1 machines, as the relevant rc file is not present in the current run-level directory. Therefore, these services do not appear on the service map. Configuration files created during discovery also do not contain information about these services. This affects the monitoring of these services.

Workaround- There is no workaround for this problem at present.

- MC/SG shared volumes are not discovered- The OSSPI volume group discovery script fails to discover MC/SG shared volumes.

Workaround- Edit all the package control files in the `/etc/cmcluster/<package>/` directory. Place the LV and FS entries in a single line as shown in the following example:

Replace the lines

```
LV[0]=" /dev/<VG>/<LV_VOLUME>"
```

```
FS[0]=" /etc/opt/OV/share" as follows:
```

```
LV[0]=" /dev/<VG>/<LV_VOLUME>; FS[0]=" /etc/opt/OV/share"
```


- Common applications in the performance products group do not work on Linux- The common applications do not work on Linux due to the sh shell pointing to a wrong location.
Workaround- Create a link for /usr/bin/sh that points to /bin/sh.
- The VCS logfile policies in the OSSPI might not function correctly with VCS 4.0
Workaround- There is no workaround for this problem at present.
- Manual deletion of policies before an upgrade- You must delete the policies manually from the Graphical User Interface (GUI) before upgrading the OSSPI.
Workaround- There is no workaround for this problem at present.
- Applications in the Common Performance Application group do not work on Linux managed nodes. (QXCR1000290529)
- The ITOSOL_00416 patch is not installed on the management server. This causes problems with OSSPI on AIX HTTPS agents (QXCR1000287521)
Workaround: Apply the ITOSOL_00416 patch to resolve the problems.
- The values specified for the following Glance templates are not applied correctly on Sun Solaris DCE managed nodes (QXCR1000291536):
 - OSSPI-GP_Msg_Tbl
 - OSSPI-GP_Sema_Tbl
 - OSSPI-GP_Shmem_Tbl
 - OSSPI-GP_Lan_Coll
 - OSSPI-GP_NetworkAdapter
 - OSSPI-GP_Nfs_Server_Badcall
 - OSSPI-GP_Nfs_Client_Badcall
- The Restart PA Servers application does not work on a Sun Solaris managed node. (QXCR1000290542)
- OSSPI-vmsa-server and OSSPI-vxconfigd templates fail on both HP-UX and Solaris managed nodes. (QXCR1000288519)

Documentation Errata

There are no errors in the OSSPI documents.

Verified Environments

The verified environments are as follows.

Supported OVO Management Server Platforms

- OVO A.08.20

- OVO A.08.10
- OVO A.08.00
- OVO A.07.x

Supported OVO Agent Platforms

- HP-UX- 11.00, 11.11, 11.22, and 11.23
- Sun Solaris- 2.6, 7.0, 8.0, and 9.0
- RedHat Linux- AS 2.1, AS 3.0, 6.2, 7.0, 7.1, 7.2, 7.3. 8.0, and 9.0
- SuSE Linux- 6.4, 7.0, 7.1, 7.2, 7.3, 8.0, 8.1, ES 8, and ES 9
- Debian Linux- 2.2, 3.0, and 3.0r1
- Tru64UNIX- 4.0F, 4.0G, 5.0A, 5.1, 5.1A, and 5.1B
- IBM AIX- 4.3.x, 5.1 5L, 5.2 5L, and 5.3
- Turbo Linux- 6.0, 6.1, 6.5, and 7.0

Local Language Support

The OSSPI is available in Japanese. The default C and Shift-JIS locales are supported on the management server. The Shift-JIS and eucJP locales are supported on Japanese locale managed nodes.

Integration with Other OpenView Solutions

The OSSPI supports integration with the following OpenView solutions.

Supported Performance Tools

OpenView Embedded Performance Component on the following platforms:

- HP-UX
- Sun Solaris
- Linux
- Tru64 UNIX
- AIX

Supported OVPA and GlancePlus Versions

- HP-UX- C.03.70.00 and later versions
- Sun Solaris- C.03.75.00 and later versions
- Linux- C.04.00.00 and later versions

- Tru64 UNIX- C.03.60.00 and later versions
- AIX- C.03.80.00 and later versions

Support

Please visit the HP OpenView support 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 OpenView offers.

HP OpenView online software 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 being able to:

- Search for knowledge documents of interest
- Submit and track progress on support cases
- Submit enhancement requests online
- Download software patches
- Manage a support contract
- Look up HP support contacts
- Review information about available services
- Enter discussions with other software customers
- Research and register for software training

NOTE: 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://www.hp.com/managementsoftware/access_level

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

<http://www.managementsoftware.hp.com/passport-registration.html>

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