HP Operations Manager

Software Version: 9.22
HP Integrity HP-UX 11i v3 operating system

Release Notes

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Software Release Date: December 2016

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- Software Version number, which indicates the software version.
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Contents

What's New in HPOM 9.22

This section contains support announcements, features, and enhancements that are introduced with the HPOM 9.22 release.

New Feature

HPOM 9.22 introduces the following feature:

HPOM FIPS Compliance

You can configure HPOM for FIPS 140-2 compliance by using the `opcfips` tool. For more information about the prerequisites and requirements for configuring HPOM for FIPS compliance, see the *HPOM Administrator's Reference* that is available at
https://softwaresupport.hpe.com/group/softwaresupport/manuals.

Enhancements

The current version of HP Operations Manager is enhanced with the following features:

S.No	Enhancement Request	Description
1	QCCR1A187053	A new option to filter buffered messages is now available for the `Subscribe` filter in HP Operations Manager Incident Web Service.
2	QCCR1A187681	HPOM can now be configured to connect to an Oracle database by using the TLS/SSL secure communication protocols. For more information, see the "Configuring an Oracle Database to Use TLS/SSL" section of the *HPOM Installation Guide for the Management Server* that is available at https://softwaresupport.hpe.com/group/softwaresupport/manuals .
3	QCCR1A186031	OML Outage Inservice funtions. A new configurationvariable `OPC_NODE_AUTO_DEBUFFER` (default is `FALSE`) was introduced to enable old behavior. If it is set to `TRUE`, pending messages will be sent to active messages as soon as a node is moved out of the group.
4	QCCR1A177371	`OM_APP_START` variable has been added to configure an Audit

S.No	Enhancement Request	Description
		Severity for "User starts an application" .
5	QCCR1A179577	HPOM now allows execution of Tools by using Web Services while configuration is being uploaded using a newly added configuration variable `OPC_ALLOW_OPCAPPL_START_DURING_CFGUPLD`.
6	QCCR1A179580	Two new options were added to opcragt: `-cancel` and `-state`. They are used together with the `-distrib` option and can be used to cancel pending distributions or get information about them.
7	QCCR1A179777	New options -node and -nodegrp for `/opt/OV/bin/OpC/startInitialSync.sh` were introduced for synchronizing only selected nodes and node groups with their nodes to node groups assignments.
8	QCCR1A163216	It is now possible to forward unbuffer message change event when a configuration variable `OPC_SEND_UNBUFFER_EVENTS` is set to `TRUE`.
9	QCCR1A175428	`Change Password...` option in the Java GUI is made configurable using XPL Configuration.
10	QCCR1A176649	It is now possible to update INFO field in the `opc_nodes` table with `opcnode` command.
11	QCCR1A180803	The options `SYNC_DWNOPTS` and `SYNC_UPLDOPTS` were added for `opccfgsync` by using environment variables.
12	QCCR1A183657	To search for users recursively using Active directory, the below properties must be changed in `ldap.properties` file. 1. `ldap.authenticationSearchBase=ou=MH_MUM` 2. `ldap.authenticationSearchScope=SUBTREE_SCOPE` for recursive search If `ldap.authenticationSearchScope=ONELEVEL_SCOPE` then `ldap.authenticationSearchBase` must be set to complete path where the user exists in AD.
13	QCCR1A184759	New options '-s' and '-6' were added to 'opcsvnsl' tool to perform the same IPv6 lookup as the server processes.
14	QCCR1A184470	Database migration from PostgreSQL to Oracle is enabled automatically with `ovoconfigure -upgrade`.
15	QCCR1A185320	Command `ovpolicy -list -level 4` shows two more attributes: `deployment_date` and `deployment_user`.
16	QCCR1A182378	The opchamgr script uses an output of the 'hostname' at different

S.No	Enhancement Request	Description
		places instead of checking the OPC_NODENAME configuration variable. The default behaviour stays the same, another name to override the hostname tool is provided by using,
		- HAMGR_HOSTNAME env variable
		- HAMGR_HOSTNAME xpl variable (ovrg server, ns opc)
17	QCCR1A187447	Remove Exist1.4 DB used as AdminUI DB.
18	QCCR1A182520	It is now possible to apply message modify rules to the messages from MSI programs via a configuration variable OPC_MSGMODIFY_ ACCEPT_MESSAGES_FROM_MSI.
19	QCCR1A160276	Install in unattended mode changes to interactive mode in case of errors.
20	QCCR1A175638	The Installation Guide has been updated. A new topic - "Decommissioning the Old Management Server" has been added in the "Migration to a System with a Different IP Address and Hostname" section (Chapter 7) of the Guide.
21	QCCR1A185116	Options added via environment variables SYNC_DWNOPTS and SYNC_UPLDOPTS.
22	QCCR1A183460	Added a new argument which can be used to also create a new Tomcat certificate: /opt/OV/contrib/OpC/om_server_switch.sh <new_long_hostame> <new_IP_Address> \ <old_long_ hostame> <old_IP_Address> [nowait] [ovtomcatb] [<tomcat_ passwd>]
23	QCCR1A180979	'itochecker' was changed to allow faster processing of of pending distributions.
24	QCCR1A184720	opcnode -list_nodes layout_group=GROUP lists all nodes instead of layout group members.
25	QCCR1A186671	Java GUI for OM 9.2x on Windows 10 is supported.
26	QCCR1A186577	Added an optional command line argument "-skip_dead_nodes_ ack" to opccfgupld that allows skip the deletion of obsolete nodes.

New Support Announcements

HPOM 9.22 now supports the following:

OS Support

Cluster Support

- VCS 6.x (QCCR1A177847)

Web Browser Support

- Google Chrome 50
- Mozilla Firefox 45

> **Note:** For the most up-to-date list of what is supported with HPOM, see the support matrix at the following location:
>
> https://softwaresupport.hpe.com/km/KM323488
>
> You will also receive updated or new editions if you subscribe to the appropriate product support service. For details, contact your HP sales representative.

Installation

Installation requirements and instructions for installing HPOM 9.22 are documented in the *HPOM Installation Guide for the Management Server*. The most recent edition of this document is available at https://softwaresupport.hpe.com/group/softwaresupport/manuals.

After you install HPOM, the document can be found at:

`/opt/OV/www/htdocs/ito_doc/C/manuals/InstallationGuide.pdf`

The `README.txt` readme file helps you to locate products and documentation.

> **Note:** For the most up-to-date list of what is supported by HPOM, see the support matrix at the following location:https://softwaresupport.hpe.com/km/KM323488
>
> You will also receive updated or new editions if you subscribe to the appropriate product support service. For details, contact your HP sales representative.

Hardware Requirements

Make sure that your system meets the following hardware requirements in addition to the requirements listed in the *HPOM Installation Guide for the Management Server*:

- The HP Integrity platform on the management server must be model rx2660 or later.
- The required disk space for the HP Operations Agent varies depending on the platform. For detailed information about the disk space required by the HP Operations Agent, see the HP Operations Agent documentation.

Software Requirements

This section lists additional software requirements that are not documented in the HP support matrices.

> **Note:** For the most up-to-date list of what is supported by HPOM, see the support matrix at the following location:
>
> https://softwaresupport.hpe.com/km/KM323488
>
> You will also receive updated or new editions if you subscribe to the appropriate product support service. For details, contact your HP sales representative.

Oracle Database

Several prerequisite OS patches must be installed for the Oracle database. You can find them at the following location:

- **For Oracle 12.1:**

  http://docs.oracle.com/database/121/HICQI/toc.htm#i1010738
- **For Oracle 11.2:**

  http://docs.oracle.com/cd/E11882_01/install.112/e24342/toc.htm
- **For Oracle 11.1:**

  http://docs.oracle.com/cd/B28359_01/install.111/b32329/toc.htm

For detailed information about installing and setting up the Oracle database, see the *HPOM Installation Guide for the Management Server.*

PostgreSQL

To use a PostgreSQL database with HPOM, install PostgreSQL version 9.1, 9.2, 9.3, 9.4, or 9.5.

For the latest PostgreSQL system requirements or more detailed instructions than those provided in this section, see the PostgreSQL documentation that is available at the following location:

http://www.postgresql.org/docs

Java GUI

Before installing the HPOM Java GUI, make sure that your system meets the hardware and software requirements, as documented in the *HPOM Installation Guide for the Management Server*, which is available at https://softwaresupport.hpe.com/group/softwaresupport/manuals.

HPOM bundles the JRE for all supported platforms. For the list of supported JRE versions, see the support matrix at the following location:

https://softwaresupport.hpe.com/km/KM323488

If the default JRE version installed with the operating system is not the same as the one required by HPOM, install the supported JRE from the following location:

https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPUXJDKJRE70

HP Operations Agent

Starting with HPOM 9.20, the HP Operations Agent software is no longer shipped together with HPOM. To obtain the supported agent version, request the agent media 12.0x (recommended) from HP.

> **Caution:** As a prerequisite for the HP Operations Agent installation, your system must meet operating system specific software and hardware requirements. For more information on supported platforms, see the support matrix at the following location:
>
> https://softwaresupport.hpe.com/km/KM323488
>
> For more information on requirements, see the HP Operations Agent documentation, which is available at:
>
> https://softwaresupport.hpe.com/group/softwaresupport/manuals.

During the HPOM installation you are prompted for the agent software location, so make sure that the agent software is accessible. After the installation, deploy the agent to the managed nodes.

> **Note:** The minimum required HP Operations Agent version for IPv6-based server-agent communication is 11.13. For more information on how to configure your HPOM environment for using IPv6, see the *HPOM Administrator's Reference*.

Cluster Environment

The HP Operations management server can be installed in a cluster environment. For more information about installing HPOM in cluster environments, see the *HPOM Installation Guide for the Management Server*, available at https://softwaresupport.hpe.com/group/softwaresupport/manuals.

Upgrading from HPOM 9.1x or 9.20 or 9.21 to HPOM 9.22

To upgrade HPOM from version 9.1x or 9.20 or 9.21 to version 9.22, see the *HPOM Installation Guide for the Management Server*.

HPOM 9.2x and Other HP Software Solutions

Integration

HPOM 9.2x provides integrations with other HP Software solutions, such as Network Node Manager i (NNMi), Operations Manager i (OMi) and Business Service Management (BSM). For a complete list and more information, visit the Support web site: https://softwaresupport.hpe.com.

Coexistence

HPOM 9.2x can coexist on the same system with the following HP Software products:

- HP Operations Agent
- HP Performance Manager
- SiteScope

Obsolescence Announcements

This section lists features that are obsolete with the HPOM 9.22 release.

User management by using the `exist-db` tool has been removed. Accessing the XML database of the Administration UI by using the HTTP interface your browser is no longer supported.

Known Problems, Limitations, and Workarounds

HPOM 9.22

Management Server and Java GUI

Symptom QCCR1A186920
Java GUI secure links cannot be opened by using Mozilla Firefox Web browser on an HP Operations management server with HP-UX operating system

If you open Java GUI secure links from a Mozilla Firefox Web browser on an HP Operations management server with HP-UX operating system, the secure links do not open by using the cockpit view, WebStart, and `cgi` program.

Solution

It is recommended that you use Internet Explorer to open Java GUI secure links on an HP Operations management server with HP-UX operating system.

Symptom QCCR1A187404

Cockpit view not loading completely in Win10 machine

Solution

Install the NPAPI/PPAPI plug-ins when you are launching the Java GUI by using the cockpit view from a web browser.

Make sure that the `JAVA_HOME` environment variable is set to `/opt/OV/nonOV/jre/b`.

Symptom QCCR1A182566

stacktrace script hangs if run as non-root to check running processes which use capabilities

Solution

The resolution is to do linux OS Hardening for gdb as root (super user) by setting:

```
# setcap cap_sys_ptrace=eip /usr/bin/gdb
```

Symptom QCCR1A172494

Trace.log can be renamed to trace.log.old even when the file size as reported by "ls -l" does not exceed the configured value TRACING_FILE_MAX_SIZE

Solution

`ls` by default arguments shows the actual size of a file. To show the size as in the file system of the disk, you can use `-s` option

du by default arguments will give us disk space actually utilized irrespective of actual size of the file. To get simply the file size as `ls`, you can use `du -bk <filename>`. Here -b is equivalent to `--apparent-size --block-size=1`; `-k` is to show in KB.

In different file system, the same file of size x bytes can take up size other than x bytes, depending on the internal mechanism of the filesystem.

Bottom line: Since the trace file is to be backed up only upon exceeding a threshold in the disk space, the current use of `du` command while checking the size of a file is proper. Should not get wary by reading `ls` results. No need to change the current code base.

HPOM 9.21.130

Management Server and Java GUI

Symptom QCCR1A149149

Support for Veritas cluster 6.0 on all platforms

When installing and configuring HPOM in a VCS 6.0 cluster environment, you may get one or both the following errors (depending on whether you have chosen the decoupled configuration) when HA resource groups are being started.

Starting Database HARG "ov-db" . . . . FAILED

Starting Server HARG "ov-server" . . . . FAILED

[repeat,skip,back,exit,?] :

Solution

To resolve this issue, follow these steps:

1. Open a separate window and run the following command to clear the state of failed resource groups:

   ```
   hagrp -clean
   ```
   Example:
   ```
   $ hagrp -clear ov-server
   $ hagrp -clear ov-db
   ```
2. Continue configuring HPOM by typing repeat in the original window.

> **Note:** The names of resource groups can be customized.

Symptom QCCR1A179165

Java GUI WebStart problems when using Mozilla Firefox and JRE 8

If Java GUI is started by using WebStart (http://<server>:8081/OvCgi/ito_op_applet_cgi.ovpl?webstart=true) on Mozilla Firefox and JRE 8, the following problems arise:

- Java GUI does not open properly. Namely, Message Dashboard is not properly displayed, and the Corrective Actions and All Active Message tabs are missing.

- Java GUI does not close properly. There is no result when selecting Exit from the Command File menu. When clicking the X button, it is required to repeat this action twice for the Java GUI to exit.

- When the Message Browser is put in the Workspace Pane and the console settings are saved, the following error appears at the next startup by using WebStart:

`Unable to launch the application.`

Solution

Launch WebStart Java GUI with Internet Explorer or Chrome. You can also use Mozilla Firefox with either Java 7u60 (or earlier) or Java 8u5 (or earlier) version.

Symptom QCCR1A181055

RHCS unmount problem if users are in shared directory

In a cluster environment, a switchover or a failover fails when a user is using one of the shared mount points. The unmount process cannot finish successfully because the shared mount point appears busy.

Solution

After the switchover or failover fails, check the active mount points on the node where the failure took place. If there is a user that uses a shared point, all mount points should be successfully unmounted except the one that is in use (for example, /etc/opt/OV/share).

To solve this problem, perform the following:

Resolve problem with used shared disks:

1. Identify the user that is using the active share point:

   `fuser -m -u /etc/opt/OV/share`
   a. Make sure that this user stops using the shared location.

   b. If you cannot stop this user from using this location, use the kill operation:

      `kill -9 <user_id>`

      For example, you get the following output when identifying the user:

      `/etc/opt/OV/share: 17843c(root)`. In this case, type the following: `kill -9 17843`.

2. Manually unmount the active shared mount point:

   `umount /etc/opt/OV/share`

3. Start the failed resource group manually:

   `ovharg_config <HPOM_HA_resource_group_name> -start <node_name>`

Symptom QCCR1A178459

Upload of the template group with too lengthy name

On HP Operations management servers with PSQL database an error appears which contain only the following: "Database:". This problem exists on RHEL 6.6 with Oracle 12 as well.

Solution

This error should state as follows:

`Database: ORA-12899: value too large for column "OPC_`

```
OP"."OPC_TEMPL_GROUPS"."TEMPL_GROUP_NAME" (actual: 509, maximum: 508).
```
To avoid getting this error, enter the shorter template group name.

Administration UI

Symptom QCCR1A173708

Related categories not included when downloading policies from the Administration UI

When downloading a policy from the Administration UI, the related categories (instrumentation) are not included in the download archive.

Solution

You cannot download policies together with the related instrumentation by using the Administration UI.

On the HP Operations management server, add `WITH_POLICIES` to the `.dsf` file before running the tool

for downloading the configuration. For the example of how you can do this, see the *HPOM Administrator's Reference*.

Symptom QCCR1A179761

Editing objects with forbidden characters results in a security warning in the Administration UI.

Editing objects that have forbidden characters in default Descriptions, Names, or other fields cannot be performed. When attempting to edit these objects, the following warning is displayed: This action violates security of this application, therefore it is not allowed.

Solution

Remove the forbidden characters from an object before you start with editing.

For example:

1. Edit the Certificate Tools tool group.
2. Change the content of the description field from Application Group 'Certificate Tools' to Application Group "Certificate Tools".
3. Save the tool group.

Limitations

The following are known limitations with HPOM 9.21:

- Switching HPOM to non-root operation is not supported in cluster environments.
- Actions from the Browse and Action menu items cannot be opened properly in a new tab.

HPOM 9.20

Management Server

Symptom QCCR1A157983

The opcpolicy check=yes command does not warn in case there are conditions with duplicate descriptions

In case there are conditions with same descriptions in the same policy, the following error message

appears in the Administration UI:
```
The following errors have been detected (marked with !):Condition descriptions must
be unique. Duplicate condition description onconditions number: 1, 2Please, correct
them and try saving again.
```
The opcpolicy and opccfgupld commands should detect this as a syntax error.

Solution

Manually change the condition descriptions.

Symptom QCCR1A155877

ovocomposer should support JRE 7

When running the `ovocomposer -ui` command, the following error message is displayed:

```
ERROR: The current version of java (1.7) is not supported. INFO : The supported
java versions are: 1.5 and 1.6.
```

The same problem exists also with JRE 8.

Solution

A hotfix is available through HP Support.

Symptom QCCR1A172348

The `mondbfile` policy is assigned in the PostgreSQL and non-root environments, although it is irrelevant.

Solution

Because `mondbfile` call does not affect the PostgreSQL and non-root environments, you can remove the assignment of the mondbfile policy manually. When switching to Oracle and to the root operation, make sure you assign this policy again so that you can use it in these environments.

Symptom QCCR1A174531

HPOvOUOracleB package relinks OpC/db binaries to Oracle when upgraded even if the database is PostgreSQL

The HPOvOUOraB package installation or upgrade relinks HPOM binaries to the Oracle version even if HPOM is currently using a PostgreSQL database.

When the HPOvOUOraB package is installed or upgraded, the following links are created in /opt/OV/bin/OpC:

opcsvcupl -> db/opcsvcupl

opc_dbinit -> db/opc_dbinit

opcdbinst -> db/opcdbinst

opcagtdbcfg -> db/opcagtdbcfg

opcactupl -> db/opchistupl

opcadddbf -> db/opcadddbf

opcdbmsgmv -> db/opcdbmsgmv

opcactdwn -> db/opcactdwn

opcsvcdwn -> db/opcsvcdwn

opcunack -> db/opcunack

opchistdwn -> db/opchistdwn

opcuistartupmsg -> db/opcuistartupmsg

opcack -> db/opcack

opchistupl -> db/opchistupl

opccfgdwn -> db/opccfgdwn

opcswpatch -> db/opcswpatch

opccfgupld -> db/opccfgupld

opcdbidx -> db/opcdbidx

opcdbpwd -> db/opcdbpwd

This results in the server failure if HPOM uses a PostgreSQL database.

Solution

You can create the appropriate links by running the opcdblink psql command.

Symptom QCCR1A174127

HA Manager daemon is still running after the HP Operations management server is removed

If the HA Manager is configured and running, it continues to run after the HP Operations management server is removed by using the ovoremove tool.

Solution

When the HP Operations management server is removed, obtain a PID of opchamgr and then stop the process by using the kill command.

Symptom QCCR1A172313

Administration UI and SiteScope configuration upload should be performed after the database is reinitialized

The database reinitialization does not upload all the policies from the default installation. When the database is reinitialized by using opcdbinit -c, the configuration components such as SiS or SPIs are not uploaded. Only the HP Operations management server default configuration is uploaded.

Solution

Before the database initialization, perform the full configuration download by using the opccfgdwn tool. After the database is initialized, upload the downloaded configuration manually by using the opccfgupld tool.

Symptom QCCR1A130743

After the I/O application is finished, the window does not close

After an Input/Output application that is started from the Java GUI is finished successfully the following output appears:

rlogin:connectionclosed.

However, the window stays open.

Solution

You can close the window by clicking the X button in the top-right corner.

Symptom QCCR1A144819

Missing message correlation between pure Self Monitoring and Agent Health Check messages, which results in message duplication

When using the Agent Health Check component and Self Monitoring feature, the alarm messages for the agent health status may get duplicated. This means that an alarm message from Self Monitoring and another message from Health Check both may report the same agent-related problem. There is no mechanism, such as message correlation, to prevent this from happening.

Solution

Acknowledge duplicated (Self Monitoring) alarming messages manually in the message browser.

Symptom

Agent bootstrapping installation method displays an error when installing an agent from the UNIX or Linux management server to the Windows node

Agent Bootstrapping displays the following error:

ERROR: Agent Bootstrap access method is not supported for Windows nodes.

Despite the error, the installation does not stop.

Solution

This message may be safely ignored, because the installation will continue in the supported mode.

Symptom

Agent bootstrapping installation method fails when installing 11.13.007 HP Operations Agent.

When run in the Agent Bootstrapping mode, the inst.sh script exits with the following error:

ERROR: (depl-81) Unable to deploy 'OVO-Agent.xml' to node

'<agenthostname'>.

```
(depl-301) Command '/bin/sh -c "/opt/OV/bin/OpC/agtinstall/

runplink.sh ************************* root example.example.com "/bin/

rm -rf "/var/opt/OV/installation/inventory/

Operations-agent_OALIN_00031.xml""' terminated with an error:

/bin/rm: missing operand

Try `/bin/rm --help' for more information.
```

Solutions

Choose one of the following solutions:

- Instead of the Agent Bootstrapping method, use the Management Server based (option = 1) installation method.

- I Ignore the error message and start the remote agent manually by using ovc -start. After that, verify the basic agent-server communication by using `opcragt -status <agent_hostname>`.

Symptom QCCR1A142521

Agent Windows installation server method fails when installing HP Operations Agent 11.xx

After the successful installation and configuration of the Installation server on the dedicated Windows system that hosts HP Operations Agent 11.xx, the inst.sh script fails when trying to install HP Operations Agent 11.xx on the target node. The following output is displayed:

```
Trying to contact HPOM at <target_win_node> (still 40 cycles) ...

The following error appears in System.txt:

(depl-81) Unable to deploy 'OVO-Agent.xml' to node '<target_win_node>'.

Exeinst failed (depl-385) Command 'oasetup.exe -install -no_start -no_boot '

failed with the return code '10001' on the node '<target_win_node>'^M

0: ERR: Wed May 23 14:31:58 2012: ovdeploy (14535/1): (depl-84) Unable to download

'oainstall.log' from node '<target_win_node>'.^M
```

Solution

Use the standard Management Server based (option = 1) installation method.

Symptom

A number of parallel agent installation instances is not limited

If you have enabled installing more than one agent in parallel (that is, `OPC_AGT_MULTI_INST` is set to TRUE), the number of agent installation instances that you can run simultaneously is not limited. The only limitations are the ones pertaining to the operating system (for example, the maximum number of processes or open files per user kernel parameters).

Solution

When installing more than one agent in parallel, be cautious regarding the number of installation instances that you run. It is recommended to start with the small number of installations (for example, 10 instances), and then to reasonably raise the number (for example, to 20 or 30) in case there are no problems with the installations.

Symptom

ovlusterinfo -a command returns cluster exception

The ovclusterinfo -a command displays the local state on the active node as Offline.

Solution

The value of the CLUSTER_LOCAL_NODENAME variable must be a node name instead of a hostname. Set

the value as follows:

```
ovconfchg -ns conf.cluster -set CLUSTER_LOCAL_NODENAME <local_node_name>
```

Symptom QCCR1A173263

Second cluster node is not assigned to the virtual node

The second cluster node is not assigned to the virtual node by default. Because of this, all policies and other configuration data that are assigned to this virtual node are not assigned to the second cluster node.

Solution

Assign the second cluster node to the virtual node by using the Administration UI.

Symptom

Configuration data cannot be distributed to the second cluster node

Policies and other configuration data cannot be distributed to the second cluster node, unless the MANAGER and MANAGER_ID variables are manually set on the second cluster node.

Solution

On the second cluster node, set the MANAGER and MANAGER_ID variables as follows:

```
ovconfchg -ns sec.core.auth -set MANAGER <virtual node name>
```

```
ovconfchg -ns sec.core.auth -set MANAGER_ID <virtual node ID>
```

SiteScope Integration

Symptom

The SiteScope application does not work from the Java GUI, because of the new Tomcat package 07.00.053.

Solution

1. In the /opt/OV/nonOV/tomcat/b/www/webapps/topaz/WEB-INF/web.xml file, comment out the lines around 203 by using <!-- and -->, as follows:

   ```
   <!--

   <taglib>

   <taglib-uri>/tags/jstl-core</taglib-uri>

   <taglib-location>/WEB-INF/act/tlds/c.tld</taglib-location>

   </taglib>
   ```

```
-->
```

2. Put the following line at the end of the `/opt/OV/nonOV/tomcat/b/conf/catalina.properties` file:

```
org.apache.jasper.compiler.Parser.STRICT_WHITESPACE=false
```

3. Restart the ovtomcatB process as follows:

   /opt/OV/bin/ovc -restart ovtomcatB

Symptom

When Discovery SiteScope Policy is configured, the AutoDiscovery service is not visible in the Java GUI.

Solution

Manually assign the AutoDiscovery service to the operator, as follows:

/opt/OV/bin/OpC/opcservice -assign opc_adm AutoDiscovery

Administration UI

Symptom QCCR1A158228

D_policy type label is not resolved in messages after operation

After completed operation, the D_policytype label is displayed in the messages box instead of the used policy type. For example, choose a policy type and then run the "Add to Shopping Cart" action from the action menu.

Solution

There is no workaround available at the moment.

Symptom QCCR1A175206

Administration UI Smart Card and Internet Explorer issues

When the Smart Card certficate for the Administration UI is read for the first time by using the Internet Explorer, you are prompted to enter a Smart Card password. After you enter the password the Administration UI log-on page does not open. The log-on page opens only after you reload the Administration UI and select twice the valid certificate from the list of certificates. The newly started Administration UI uses the appropriate Smart Card certificate.

Solution

Use Firefox or Google Chrome. Firefox must be configured to use CAC reader as a security device.

Localization

Symptom QCCR1A174059

Date format in the output of opcragt or opcsv -version is not translated

In the output of `opcragt` or `opcsv -version`, date format is not translated. It is displayed in English.

Symptom QCCR1A174055

Incorrect date format in the About Java GUI form

In the About Java GUI form, the message related to the build date has US date format.

Symptom QCCR1A174063

opchealth2txt.sh usage is incorrectly translated

The output of `opchealth2txt.sh -h` is incorrectly translated. Moreover, the option descriptions for health and status are identical.

Solution

The following are properly formulated option descriptions in English:

- health <health record> : convert health record to localized text
- status <status record> : convert status record to localized text
- issue <issue record> : convert issue record to localized text

HPOM 9.xx Releases

For known problems, limitations, and workarounds in releases earlier than HPOM 9.20, see the *HPOM Software Release Notes* 9.11.1xx.

Defects Fixed in HPOM 9.22

The following defects have been fixed in HPOM 9.22:

S.No	Defect ID	Description
1	QCCR1A177060	om_server_switch.sh : CERTIFICATE_SERVER in NS "sec.core.auth"
2	QCCR1A189372	JavaGUI stays in loading services
3	QCCR1A178858	HealtCheck WantState doesn't go UP when auto outage is enabled
4	QCCR1A179203	Limit the size of annotations in OML
5	QCCR1A186332	Instance Filter drop down appears dettached after adding more than 4 entries in Admin UI
6	QCCR1A180635	opccfgdwn gives Internal error [opc_upd_download_ categories]. (OpC54-51)
7	QCCR1A180245	Default permissions for /etc/opt/OV/share/conf/ovdbconf should be more restrictive
8	QCCR1A189254	opchistupl may fail to upload messages
9	QCCR1A188050	Java GUI Applet page does not set effective measures against the Clickjacking
10	QCCR1A189130	The Japanese message catalog for AdminUI was changed and caused unsuitable displayname in policy edit page
11	QCCR1A188141	opcuiwww.ldap does not work with RHEL 6.x LDAP library version
12	QCCR1A185796	After first-time install of OMU 9.20.190, AdminUI login page does not open on HP-UX, web.log shows a "FileNotFoundException" complaining "keystore_webapp.jks" is missing.
13	QCCR1A187618	Utility opcack doesn't work with Java LDAP authentication
14	QCCR1A188203	opcarr command has a bug in the script when getting node groups with spaces
15	QCCR1A187518	OML problem with WebService interface (OV Tomcat Servlet Container)
16	QCCR1A181041	opcnode should not allow to add an external node with a

S.No	Defect ID	Description
		machine_type other than MACH_BBC_OTHER_IP or MACH_BBC_OTHER_NON_IP
17	QCCR1A174190	ovoinstall should not allow hostname or virtual node name with underscore
18	QCCR1A134354	Disable editing annotations in Java GUI
19	QCCR1A126273	OMU installer Bug.
20	QCCR1A122499	OMU/L 9: seldist.tmpl contains confusing SPI files' prefixes
21	QCCR1A130071	OPC_HA_TRAPI no longer needed in ovoconfigure
22	QCCR1A185500	yum update and yum upgrade aborts on RHEL 7 due to file conflicts with OML installation packages
23	QCCR1A144075	OMU9.10, proc_util policy generates OpC30?797, OpC30?732 errors.
24	QCCR1A165326	opc_node_change.pl needs option to modify node label
25	QCCR1A168354	opccmachg -async removes existing CMAs on target server via M2M msg forwarding
26	QCCR1A174189	ovoinstall hangs in cluster configuration, if failover domain was deleted
27	QCCR1A174127	opchamgr daemon still running after finished ovoremove
28	QCCR1A175224	Itochecker should collect configuration and logs of all new functionality such as ARR, Health Check, ESF etc.
29	QCCR1A180631	opccfgupld –check should detect basic syntax errors in policies
30	QCCR1A174531	HPOvOUOracleB package relinks OpC/db binaries to oracle when upgraded, even if DB is PSQL
31	QCCR1A181514	Enhancement for the ESF flood_gates.conf configuration file to support use of variables
32	QCCR1A181515	Need an option to define custom CMA-s in ESF
33	QCCR1A182758	During OML 9:21 installation - ovoconfigure 09.21.100 asks questions for PSQL but we chose ORA
34	QCCR1A186734	No properties shown when clicking action button.
35	QCCR1A185538	Xinetd service should be up and running for JGUI component of OM servers to get installed on RHEL 7
36	QCCR1A183167	opcesf - information about policy/condition missing in event storm logfile

S.No	Defect ID	Description
37	QCCR1A173348	itochecker does not list what strings for binaries located in /opt/OV/bin/OpC/utils
38	QCCR1A184705	Annotation cannot be modified if database is PSQL
39	QCCR1A184968	Getting 500 error adding nodes to shopping cart seems to be some limit form too large: > 200000
40	QCCR1A185966	File type check in Report SQL scripts neeeded
41	QCCR1A187075	opcesf aborts with segmentation fault if there's no $OV_CONF/OpC/mgmt_sv/esf/opcesf.conf file
42	QCCR1A185743	ovdbstat.pl script reports syntax error if DB is PSQL 9.5
43	QCCR1A186243	Edit and save policy without setting Thresold for an "Use Instance Filter", UI redirects to error page.
44	QCCR1A187010	ESF configuration for msiconf file has a typo in the example provided in the Administration Reference Guide
45	QCCR1A187053	Incident Web Service: buffered/unbuffered attribute not found
46	QCCR1A187022	Mismatch of machine type for HP-UX with OA 12
47	QCCR1A186523	opchc.sh -compile may fail when used before by another user
48	QCCR1A181690	Messages from ESF should have an option to set message keys
49	QCCR1A186663	opcactm restarts with OPC_ANNO_SIZE_LIMIT
50	QCCR1A187703	OA 12.00 MR HPUX IA64 Packages is shipping older 11.xx 32 bit LCore libraries/binaries instead of 12.00 MR 32 bit libraries.
51	QCCR1A185645	Java GUI is displaying events in the node browser from multiple nodes
52	QCCR1A125347	Newly arriving messages are displayed in both the "All messages" view and the filtered view even if the node filter does not match
53	QCCR1A172494	Trace.log can be renamed to trace.log.old even when the file size as reported by "ls -l" does not exceed the configured value TRACING_FILE_MAX_SIZE
54	QCCR1A174234	ESF suppresses last msg before msg storm by mistake when PERIOD=1 minute
55	QCCR1A182566	stacktrace script hangs if run as non-root to check running processes which use capabilities
56	QCCR1A143480	Java GUI users should be able to login while opccfgupld is

S.No	Defect ID	Description
		running
57	QCCR1A178925	Topology synchronization not working because of missing system library
58	QCCR1A109648	Cryptic message when OS version related instrum deployment not possible
59	QCCR1A132837	HPOM server processes fail to start when using Oracle Instant Client 11.2.0.3 libraries

Local Language Support

HPOM can be used in multilingual environments.

Certified Encoding and Character Sets on HP Operations Management Servers

Certified encoding and character sets need to be set for the HP Operations management server and Oracle database host systems.

- Encoding HPOM Node Character Set: `UTF-8`
- Oracle Database Code Set: `AL32UTF8`
- HP-UX Language Variable `LANG`:

  - English: `C.utf8, en_US.utf8, en_GB.utf8`

  - Spanish: `es_ES.utf8`

  - Japanese: `ja_JP.utf8`

  - Korean: `ko_KR.utf8`

  - Simplified Chinese: `zh_CN.utf8`

Other locales are also supported, for example, German and French. For information about supported character sets, refer to the *HPOM Administrator's Reference*.

Caution: UTF-8 is the only encoding supported by the HPOM database.

Localization Support

HPOM 9.22 offers localization support for Japanese.

Documentation Updates

The following documents have been updated since the last HPOM release (that is, version 9.21.130):

- *HPOM Server Configuration Variables*
- *HPOM Administrator's Reference*
- *HPOM Installation Guide for the Management Server*
- *HPOM Concepts Guide*
- *HPOM High Availability Through Server Pooling White Paper*
- *HPOM Firewall Concepts and Configuration Guide*

Send Documentation Feedback

If you have comments about this document, you can contact the documentation team by email. If an email client is configured on this system, click the link above and an email window opens with the following information in the subject line:

Feedback on Release Notes (Operations Manager 9.22)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to docfeedback@hpe.com.

We appreciate your feedback!