Neuron Management Server

RELEASE NOTES

Product Version: 1.16.0

Document Revision: 1.0.0

HALCYON
MONITORING
SOLUTIONS

Copyright

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About Halcyon

Halcyon delivers Infrastructure Management solutions that provide operational visibility, availability, and reliability for business critical services and their underlying infrastructure. Since 1994, numerous Fortune 100 and SMEs, spanning every major geography and sector, have adopted Halcyon solutions.

At Halcyon, we believe the health of the IT infrastructure is integral to the success of a business. Our clients rely on us for complete end-to-end monitoring solutions that are straightforward, easy to deploy and use, and cost-effective, coupled with a history of client service excellence.

Your Infrastructure is Our Business

Contents

Version: 1.16.0

Release Date: 2011-12-19

Enhancements

#	Description
1	Improved the shutdown and cleanup of the Script service.
2	Created a Logical Group topology to show the Logical Groups created using the Logical Group Manager (see *Inventory Manager* User's Guide) and the assets within them.
3	Improved how *Neuron Management Portal* handles being unable to connect to the Neuron Server.
4	Created a central Settings Manager for the *Neuron Management Portal* where all settings can be adjusted.
5	Added the ability to adjust *Neuron Management Portal* font size via the Settings Manager.
6	License Manager now prints which components were added/licensed following execution.
7	Retrial period for SunMCServerAdapter has been updated to improve performance.
8	Gray icons are now uniformly used when associated buttons are disabled.
9	Tabbing amongst fields now works when adding/editing OpsCenterAdatper connections.
10	The *Neuron Management Suite* Server now detects its hardware architecture when first started.
11	Newline characters now removed from event messages before being forwarded using *Neuron Event Manager* actions as the newlines could result in improper parsing by 3rd party products.

Bug Fixes

#	Description	Bug ID
1	Postinstall instructions are wrong when installing on a Solaris 11 zone.	HMF-4199
2	Cannot re-install Neuron on Solaris 11 if LOCALDIR was deleted.	HMF-4194
3	Notifications from Oracle Enterprise Manager for Ops Center may not have been able to properly detect the correct source asset.	HMF-4195
4	Event processing may have incorrectly created an extra solarisbasemodule asset.	HMF-4181
5	Error may appear when loading events if the events list is received too quickly from the server.	HMF-4163
6	Incorrect metric types were added during installation.	HMF-4160

#	Description	Bug ID
7	Only one set of SunMCServerAdapter connection details were preserved on upgrade.	HMF-4156
8	Editing OpsCenterAdapter connection user or password did not remove the old user or password.	HMF-4144
9	Cannot start *Neuron Management Suite* Server on Solaris 11.	HMF-4052
10	EmailAdapter emailFormat property was being discarded.	HMF-2537

Known Issues

#	Description
1	Some versions of Linux Firefox may become unresponsive when user right clicks inside the *Neuron Management Portal* UI.
2	EnergyWise discovery and configuration operations are only available when Neuron is installed on Linux.
3	Log file monitoring using the Neuron Module for Linux Hardware is only possible if the log file (/var/adm/messages) is readable by user 'halcyon'.
4	When Neuron Sun Management Center Server Adapter imports domains from a Sun MC Server the message 'Error retrieving entities for domain base.console.ConsoleTopology:domain.defaultdomain: Invalid topology info record' might be logged. A subsequent domain import will continue importing domain information.
5	The Neuron Module for Generic Hardware can monitor IPMI enabled hosts by listening for IPMI Platform Event Traps (PET). These traps must be sent to the SNMP port that is defined in the SNMP Service. By default this is 2162. Please note that the Neuron Management Server might not be able to bind to ports below 1024 since it has no root privileges. You may be able to grant user *halcyon* the right to bind to these ports.

Upgrade Strategy

#	Description
1	Upgrading Neuron from 1.11.0 or earlier on Solaris x86 requires the deletion of the Neuron Management Server database files. If existing data must be retained, the following procedure must be used: 1. Log in as root 2. Execute [EXTRACTDIR]/NeuronDatabase backup (Where EXTRACTDIR is where the Neuron 1.15.0 tarball is extracted) 3. Delete the database directory [LOCALDIR]/db/data/HMF 4. Install the new release of Neuron Management Suite 5. Execute [EXTRACTDIR]/NeuronDatabase restore (enter "yes" when asked whether to upgrade Neuron)

	EXTRACTDIR is the location of the extracted Neuron Management Suite distribution tarball. LOCALDIR is the location of the Neuron runtime files (default is /var/opt/HMF).
2	If upgrading from 1.12.0 or earlier, any assets that were discovered will not be managed and will not have credentials tied to them (this was added in 1.13.0). Configuration and Health operations only run for managed assets that have credentials. In order to take advantage of Configuration and Health monitoring, please go to the Inventory tab of the *Neuron Management Portal*, select all assets in all tables (ctrl/shift + click works to select multiple entries), and then click the edit button at the top of the tab (). In the window that appears, check the "Manage Asset(s)" check box, then fill in the credentials for the assets and click OK or Apply. Please refer to the *Neuron Inventory Manager, Neuron Configuration Manager* and *Neuron Health Manager* User's Guides for more details.
3	If upgrading from 1.10.0 or earlier, no virtualization information will have discovered for any assets (this was added in 1.11.0). In order for Neuron Management Suite to display virtualization information and associations of assets (for instance, global zone to non-global zone associations), discovery will need to be re-run for those assets. This new discovery will discover any virtualization information and relationships and update the assets accordingly. Also be aware that many of the Configuration and Health operations are specific to Zones and Oracle VMs for SPARC (LDOMs), thus this information must be discovered in order to take full advantage of Configuration and Health monitoring. Please refer to the *Neuron Inventory Manager, Neuron Configuration Manager* and *Neuron Health Manager* User's Guides for more details.
4	Please follow the Upgrade Strategy instructions documented for previous releases if upgrading from Neuron Management Suite 1.14.0 or earlier.

Version: 1.15.0

Release Date: 2011-10-19

Enhancements

#	Description
1	Installation scripts no longer use shell utility “which” for improved robustness.
2	One or more license files can be applied by executing the new License Manager utility.
3	Upon first access of the Neuron Management Portal a Welcome Page for setting the *admin* user’s password is displayed.
4	Changing HTTP and HTTPS ports of the Neuron Management Portal can be performed by modifying Tomcat Service configuration properties.
5	Missing users are added to groups.xml and domains.xml during installation.
6	Events displayed in the Neuron Event Viewer can be sorted on multiple columns.
7	The same date format is used throughout the Neuron Management Portal. The only exception is the Time Received column of the Event Viewer.

Bug Fixes

#	Description	Bug ID
1	Java heap space errors occur when both Ops Center Adapter and Sun MC Server Adapter are enabled.	HMF-3922
2	Configuration property logEnabled of Linux Base Module and Solaris Base Module is set to false by default.	HMF-4019
3	BASEDIR is set to /opt after upgrading from 1.8.0 to 1.14.0 or later.	HMF-4020
4	README.config shows incorrect path for Ops Center cacao properties file.	HMF-4079

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6	When configuration compliance asset detail report is generated and all of the following conditions apply: - multiple asset types are specified in the snapshot; - more than one asset have the same name (but have different asset types) and they fall in the same level of compliance severity. Then, only one of these assets will appear in the asset detail report with a compliance value under the corresponding compliance severity.

Upgrade Strategy

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2	If upgrading from 1.12.0 or earlier, any assets that were discovered will not be managed and will not have credentials tied to them (this was added in 1.13.0). Configuration and Health operations only run for managed assets that have credentials. In order to take advantage of Configuration and Health monitoring, please go to the Inventory tab of the *Neuron Management Portal*, select all assets in all tables (ctrl/shift + click works to select multiple entries), and then click the edit button at the top of the tab (). In the window that appears, check the "Manage Asset(s)" check box, then fill in the credentials for the assets and click OK or Apply. Please refer to the *Neuron Inventory Manager, Neuron Configuration Manager* and *Neuron Health Manager* User's Guides for more details.
3	If upgrading from 1.10.0 or earlier, no virtualization information will have discovered for any assets (this was added in 1.11.0). In order for Neuron Management Suite to display virtualization information and associations of assets (for instance, global zone to non-global zone associations), discovery will need to be re-run for those assets. This new discovery will discover any virtualization information and relationships and update the assets accordingly. Also be aware that many of the Configuration and Health operations are specific to Zones and Oracle VMs for SPARC (LDOMs), thus this information must be discovered in order to take full advantage of Configuration and Health monitoring. Please refer to the *Neuron Inventory Manager, Neuron Configuration Manager* and *Neuron Health Manager* User's Guides for more details.
4	Please follow the Upgrade Strategy instructions documented for previous releases if upgrading from Neuron Management Suite 1.13.1 or earlier.

Version: 1.14.0

Release Date: 2011-08-24

Enhancements

#	Description
1	During an upgrade installation it is no longer required to enter installation directories. This improves ease of installation and avoids incorrect upgrades.
2	The default user for new installations has been changed to *admin* and has a secure password that must be set after installation. Passwords must be at least 8 characters for improved security.
3	Improved log rotation of the included PostgreSQL database.
4	Added utility for displaying the status of the Neuron Management Server. Additional links are now installed in [LOCALDIR] for easy access to the start, stop, and status commands.
5	Retrieve and display health information for assets such as Solaris hosts, zones, and domains. Also supported are Windows hosts and some Cisco network devices. Thresholds for health metrics can be defined by the user. Events will be generated if a health metric exceeds these thresholds. Health metrics, thresholds, and their values are displayed in the new Health Tab of the *Neuron Management Portal*.
6	Execution of availability, configuration, and health operations has been optimized in order to reduce resource usage. Operations are executed in batches where possible and the number of logins to remote systems has been reduced significantly.
7	Added *User Manager* utility for adding, modifying, and removing users. It can also be used to list users and change the password of users. Before Neuron is started the first time the password of the default user *admin* must be set. See *Neuron Management Server User's Guide* for more information.
8	Exported Neuron usage data – accessible from the *Licensing Tab* of the *Control Agent* in the *Neuron Topology* – has been improved to include header and user-friendly formatting of timestamps.

Bug Fixes

#	Description	Bug ID
1	Command-line utilities might expose password in *ps* command.	HMF-3804
2	Enabling finer log levels might expose encoded passwords.	HMF-3862
3	Event Manager is not always accessible due to incorrect license processing.	HMF-3889
4	Installation with identical BASEDIR and LOCALDIR is allowed.	HMF-3905
5	*Password Encoder* utility modifies ownership of configuration files.	HMF-3908

6	Changing the Mail Host of the Email Service requires restart.	HMF-3913
7	Ops Center Adapter fails to import some operating system assets.	HMF-3914
8	Installation and uninstallation log files are world-readable.	HMF-3919
9	*Password Encoder* utility might not be executable.	HMF-3976
10	Upgrade from version 1.12 or earlier fails if license file contains codes for later versions.	HMF-3977
11	HALDiag.sh script is unable to retrieve performance database statistics if password contains certain special characters.	HMF-3998
12	Tooltips for Event Tag buttons might show incorrect information.	HMF-3999

Known Issues

#	Description
1	Some versions of Linux Firefox may become unresponsive when user right clicks inside the *Neuron Management Portal* UI.
2	EnergyWise discovery and configuration operations are only available when Neuron is installed on Linux.
3	Installation on Linux might require manually extracting user-interface components if programs ‘jar’ and ‘unzip’ are not available. See section ‘Unable to extract war files’ in the *Neuron Management Suite Installation and Configuration Guide* for details.
4	Log file monitoring using the Neuron Module for Linux Hardware is only possible if the log file (/var/adm/messages) is readable by user ‘halcyon’.
5	When Neuron Sun Management Center Server Adapter imports domains from a Sun MC Server the message ‘Error retrieving entities for domain base.console.ConsoleTopology:domain.defaultdomain: Invalid topology info record’ might be logged. A subsequent domain import will continue importing domain information.
6	The Neuron Module for Generic Hardware can monitor IPMI enabled hosts by listening for IPMI Platform Event Traps (PET). These traps must be sent to the SNMP port that is defined in the SNMP Service. By default this is 2162. Please note that the Neuron Management Server might not be able to bind to ports below 1024 since it has no root privileges.

Upgrade Strategy

#	Description
1	Upgrading Neuron from 1.11 or earlier on Solaris x86 requires the deletion of the Neuron Management Server database files. If existing data must be retained, the following procedure must be used: 11. Log in as root 12. Execute [EXTRACTDIR]/NeuronDatabase backup (Where EXTRACTDIR is where the Neuron 1.14.0 tarball is extracted) 13. Delete the database directory [LOCALDIR]/db/data/HMF 14. Install the new release of Neuron Management Suite 15. Execute [EXTRACTDIR]/NeuronDatabase restore (enter "yes" when asked whether to upgrade Neuron) EXTRACTDIR is the location of the extracted Neuron Management Suite distribution tarball. LOCALDIR is the location of the Neuron runtime files (default is /var/opt/HMF).
2	The following utilities have been renamed: - NeuronCoreStart → NeuronServerStart - NeuronCoreStop → NeuronServerStop - NeuronCoreDatabase → NeuronDatabase The following utility has been added: - NeuronServerStatus: display information about the Neuron Management Server
3	If upgrading from 1.12 or earlier, any assets that were discovered will not be managed and will not have credentials tied to them (this was added in 1.13). Configuration and Health operations only run for managed assets that have credentials. In order to take advantage of Configuration and Health monitoring, please go to the Inventory tab of the *Neuron Management Portal*, select all assets in all tables (ctrl/shift + click works to select multiple entries), and then click the edit button at the top of the tab (). In the window that appears, check the "Manage Asset(s)" check box, then fill in the credentials for the assets and click OK or Apply. Please refer to the *Neuron Inventory Manager, Neuron Configuration Manager* and *Neuron Health Manager* User's Guides for more details.
4	If upgrading from 1.10 or earlier, no virtualization information will have discovered for any assets (this was added in 1.11). In order for HNMS to display virtualization information and associations of assets (for instance, global zone to non-global zone associations), discovery will need to be re-run for those assets. This new discovery will discover any virtualization information and relationships and update the assets accordingly. Also be aware that many of the Configuration and Health operations are specific to Zones and Oracle VMs for SPARC (LDOMs), thus this information must be discovered in order to take full advantage of the Configuration and Health monitoring. Please refer to the *Neuron Inventory Manager, Neuron Configuration Manager* and *Neuron*

	Health Manager User's Guides for more details.
5	Please follow the Upgrade Strategy instructions documented for previous releases if upgrading from Neuron Management Suite 1.13.0 or earlier.

Version: 1.13.1

Release Date: 2011-07-29

Enhancements

#	Description
1	The Neuron Management Suite is now available without registration. The default trial-period of 14 days can be extended to 30 days when registering on the Halcyon web site.

Bug Fixes

#	Description	Bug ID
1	Some status panels display “Last Updated” instead of “Last Refreshed”.	HMF-3890
2	The Password Encoding tool might change ownership and permissions of the file containing encoded passwords.	HMF-3908

Known Issues

#	Description
1	Some versions of Linux Firefox may become unresponsive when user right clicks inside the *Neuron Management Portal* UI.
2	EnergyWise discovery and configuration operations are only available when Neuron is installed on Linux.
3	Installation on Linux might require manually extracting user-interface components if programs ‘jar’ and ‘unzip’ are not available. See section ‘Unable to extract war files’ in the *Neuron Management Suite Installation and Configuration Guide* for details.
4	Log file monitoring using the Neuron Module for Linux Hardware is only possible if the log file (/var/adm/messages) is readable by user ‘halcyon’.
5	When Neuron Sun Management Center Server Adapter imports domains from a Sun MC Server the message ‘Error retrieving entities for domain base.console.ConsoleTopology:domain.defaultdomain: Invalid topology info record’ might be logged. A subsequent domain import will continue importing domain information.
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Upgrade Strategy

#	Description
1	Upgrading Neuron from 1.11 or earlier on Solaris x86 requires the deletion of the Neuron Management Server database files. If existing data must be retained, the following procedure must be used: 16. Log in as root 17. Execute [EXTRACTDIR]/NeuronCoreDatabase backup (Where EXTRACTDIR is where the Neuron 1.13.1 tarball is extracted) 18. Delete the database directory [LOCALDIR]/db/data/HMF 19. Install the new release of Neuron Management Suite 20. Execute [EXTRACTDIR]/NeuronCoreDatabase restore (enter "yes" when asked whether to upgrade Neuron Core) EXTRACTDIR is the location of the extracted Neuron Management Suite distribution tarball. LOCALDIR is the location of the Neuron runtime files (default is /var/opt/HMF).
2	If upgrading from 1.12 or earlier, any assets that were discovered will not be managed and will not have credentials tied to them (this was added in 1.13). Configuration operations only run for managed assets that have credentials. In order to take advantage of Configuration monitoring, please go to the Inventory tab of the *Neuron Management Portal*, select all assets in all tables (ctrl/shift + click works to select multiple entries), and then click the edit button at the top of the tab (). In the window that appears, check the "Manage Asset(s)" check box, then fill in the credentials for the assets and click OK or Apply. Please refer to the *Neuron Inventory Manager* and *Neuron Configuration Manager* User's Guides for more details.
3	If upgrading from 1.10 or earlier, no virtualization information will have discovered for any assets (this was added in 1.11). In order for HNMS to display virtualization information and associations of assets (for instance, global zone to non-global zone associations), discovery will need to be re-run for those assets. This new discovery will discover any virtualization information and relationships and update the assets accordingly. Also be aware that many of the Configuration operations are specific to Zones and Oracle VMs for SPARC (LDOMs), thus this information must be discovered in order to take full advantage of the Configuration monitoring. Please refer to the *Neuron Inventory Manager* and *Neuron Configuration Manager* User's Guides for more details.
4	Please follow the Upgrade Strategy instructions documented for previous releases if upgrading from Neuron Management Suite 1.12.0 or earlier.

Version: 1.13.0

Release Date: 2011-06-30

Enhancements

#	Description
1	Added support for the WMI protocol.
2	Added support for the EnergyWise protocol (Neuron Management Suite for Linux only).
3	Added support for monitoring Cisco network devices via SNMP and EnergyWise.
4	Added support for Oracle Enterprise Manager Ops Center 11g.
5	Added support for discovery of Dell iDRAC and Sun ALOM/ILOM baseboard management controllers.
6	Added support for discovery of Neuron Agent installed on monitored assets.
7	Discovery of assets no longer depends on Hardware Module, Solaris Base Module, or Solaris Virtualization Module being enabled.
8	Discovery of assets in a subnet has been improved by ignoring hosts with the first and last address in the IP range defined by the network mask of server network interfaces.
9	SNMP based integration adapters (Neuron Integration for BMC Event Manager, Neuron Integration for Tivoli Netcool, Neuron Integration for HP OpenView) no longer depend on the Generic Adapter being enabled or licensed.
10	Added support for unacknowledge events sent by Neuron Agent.
11	Provisioning Neuron Agent through the Neuron Management Portal will also install the Halcyon license file.
12	Patterns for discovering failures related to network interface, fans, and power supplies on Solaris systems have been added to the Solaris Base Module.
13	Log file monitoring provided by Solaris Base Module and Linux Base Module is disabled by default.
14	The SNMP agent host address is configurable for SNMP based integration adapters (Neuron Integration for BMC Event Manager, Neuron Integration for Tivoli Netcool, Neuron Integration for HP OpenView) and the Generic Adapter.
15	The command-line utility ProcessAsset can be used to display relationships between assets in the database.
16	User name and group of Neuron Management Portal user is displayed in About.
17	Event Viewer displays all supported event types (fault, discovery).
18	Added Java MBeans for operations and licenses, which can be inspected in JConsole.
19	All files (except for directories install and uninstall) are no longer world-readable for improved security.
20	Added support for Oracle Solaris 11.
21	Added support for Red Hat Enterprise Linux 5 Update 6, Red Hat Enterprise Linux 6, Oracle Enterprise Linux 5, Oracle Enterprise Linux 6.

Bug Fixes

#	Description	Bug ID
1	Revision history logging may time out and may enter a loop, continuously logging the same revision information.	HMF-2216
2	SNMP Service log should be enabled by default.	HMF-2540
3	Neuron Agent uninstallation log file is not copied to correct location.	HMF-3191
4	Provisioning/deprovisioning of Neuron Agents is no longer possible for users who are not in groups “managers” or “admins”.	HMF-3222
5	The content of dialog boxes in the Neuron Management Portal is not completely visible for large quantities of text.	HMF-3223
6	J-Interop error message 0x00000034 is printed during discovery of Windows hosts.	HMF-3224
7	When Neuron Management Server is installed on Solaris 11 hosts the reported IP address might be the loopback address.	HMF-3225
8	Warning about unsaved changes incorrectly appears when editing configuration of some modules.	HMF-3233
9	Editing configuration should trigger a topology update.	HMF-3254
10	Neuron Agent installation log file is named incorrectly.	HMF-3271
11	Events created from traps sent by the Neuron Agent are incorrectly set to be from Sun Management Center Agent.	HMF-3275
12	Some log messages unrelated to the Sun Management Center Server Adapter might contain the name and port of a configured Sun Management Center Server.	HMF-3322
13	When changing the configuration of the Sun Management Center Server Adapter an error regarding missing classes might be displayed.	HMF-3327
14	Renaming of Neuron Agent sometimes fails.	HMF-3328
15	Import of performance data from Oracle Enterprise Manager Ops Center sometimes fails.	HMF-3338
16	Long error messages are not completely visible in Neuron Management Portal.	HMF-3410
17	License information is not displayed.	HMF-3432
18	Neuron Management Portal may time out while working in a pop-up screen.	HMF-3437
19	Availability check fails to update database in some cases.	HMF-3452
20	User “mgmt” is shown to be member of “managers” group instead of “admins”.	HMF-3511
21	Active MQ journal size can grow very large.	HMF-3526

22	Neuron Management Portal remains locked when disabling of module fails or times out.	HMF-3527
23	IP addresses as reported by Oracle Enterprise Manager Ops Center might not be valid.	HMF-3550
24	Connection to Sun Management Center servers is never restored if reconnect attempt does not succeed.	HMF-3556
25	Solaris global zone might be incorrectly linked to physical host instead of control domain.	HMF-3567
26	State selection drop-down does not close when editing a rule (Linux/Firefox).	HMF-3595
27	Path for the default tec_config file of the Neuron Integration for IBM Tivoli is incorrect when using custom LOCALDIR.	HMF-3649
28	Licenses are updated correctly when license file is modified or removed completely.	HMF-3743

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Upgrade Strategy

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	1. Log in as root 2. Execute [EXTRACTDIR]/NeuronCoreDatabase backup (Where EXTRACTDIR is where the Neuron 1.13.0 tarball is extracted) 3. Delete the database directory [LOCALDIR]/db/data/HMF 4. Install the new release of Neuron Management Suite 5. Execute [EXTRACTDIR]/NeuronCoreDatabase restore (enter "yes" when asked whether to upgrade Neuron Core) EXTRACTDIR is the location of the extracted Neuron Management Suite distribution tarball. LOCALDIR is the location of the Neuron runtime files (default is /var/opt/HMF).
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4	Please follow the Upgrade Strategy instructions documented for previous releases if upgrading from Neuron Management Suite 1.11.0 or earlier.

Version: 1.12.0

Release Date: 2010-12-31

Enhancements

#	Description
1	Discover Solaris OS and version during SSH discovery.
2	Discover Global and Non-Global Zone associations during SSH discovery.
3	Discover Control Domain and Guest Domain associations during SSH discovery.
4	Show Zone and Oracle VM for SPARC (LDOM) associations in the Systems Topology.
5	Added an Inventory Tab that will list out assets and associated information based on selected assets/groups in the topology.
6	Moved Events table Settings from the application header to the Event Viewer Status panel.
7	Events from the same source are now correlated, thus Close events actually close Open events.
8	Open events that have been closed by default will not appear in the Events table (can be changed by adjusting Settings).
9	Added additional context to the View Rule Details panel to make it clearer and easier to understand.
10	Restructuring of the UI including increasing the size of the topology panel and changing how components are accessed. Event Manager is now accessed by clicking "Manage Events" from the Events Tab's (Event Viewer) Actions panel. Similarly, clicking "View Events" from the Event Manager will return you to the Event Viewer. Configuring the modules and services can now be done via the Configuration Tab which is made available by selecting "Control Agent" from the Neuron Topology.
11	Default topology view is now the Systems Topology which shows the zone and Oracle VM for SPARC (LDOM) relationships.
12	New icons are being utilized to show Global and Non-Global zones as well as Control and Guest domains within the topologies.
13	The topologies are now automatically updated following the completion of a discovery (new assets and new relationships are shown).
14	Added the ability to provision Neuron Agents to and deprovision Neuron Agents from Solaris systems. This can be achieved from the Inventory Tab with a Solaris node (i.e. Solaris 10) or an asset under a Solaris node selected in the OS Topology.

Bug Fixes

#	Description	Bug ID
1	Update the Rule Schedules table following comment changes to ensure the "Add Schedule" button does not end up hidden.	HMF-2815
2	Properly handle the Neuron Agent's coldstart event.	HMF-2912
3	Don't prompt the user about saving changes on the Rule Schedule tab when no changes were made.	HMF-2962
4	Make the Rule Details Viewer's header highlight green when the rule is on (active and enabled) not just enabled.	HMF-2976
5	Ensure Time value can be set for Rule Schedule in Linux Firefox.	HMF-2981
6	Prevent potential database connection problems when recording performance data.	HMF-3037
7	Maintain the correct sort after refreshing the event list while viewing the Severity Topology.	HMF-3042
8	Correctly apply font-size changes following an application reload.	HMF-3096
9	Report schedule is now successfully cancelled after related Scheduled Report is disabled.	HMF-3121
10	Ensure events in the Discovery Audit Log all appear in the correct order.	HMF-3874

Known Issues

#	Description
1	Neuron Management Server is unsupported on Solaris 11.
2	Integration with Oracle Enterprise Manager Ops Center 11g is not supported.
3	Installation on Linux might require manually extracting user-interface components if programs ‘jar’ and ‘unzip’ are not available. See section ‘Unable to extract war files’ in the *Neuron Management Suite Installation and Configuration Guide* for details.
4	Log file monitoring using the Neuron Module for Linux Hardware is only possible if the log file (/var/adm/messages) is readable by user ‘halcyon’.
5	When Neuron Sun Management Center Server Adapter imports domains from a Sun MC Server the message ‘Error retrieving entities for domain base.console.ConsoleTopology:domain.defaultdomain: Invalid topology info record’ might be logged. A subsequent domain import will continue importing domain information.
6	The Neuron Module for Generic Hardware can monitor IPMI enabled hosts by listening for IPMI Platform Event Traps (PET). These traps must be sent to the SNMP port that is defined in the SNMP Service. By default this is 2162. Please note that the Neuron Management Server might not be able to bind to ports below 1024 since it has no root

	privileges.

Upgrade Strategy

#	Description
1	Upgrading on Solaris x86 requires the deletion of the Neuron Management Server database files. If existing data must be retained the following procedure may be used: 1. Log in as root 2. Execute [EXTRACTDIR]/NeuronCoreDatabase backup (Where EXTRACTDIR is where the Neuron 1.12.0 tarball is extracted) 3. Delete the database directory [LOCALDIR]/db/data/HMF 4. Install the new release of Neuron Management Suite 5. Execute [EXTRACTDIR]/NeuronCoreDatabase restore (enter "yes" when asked whether to upgrade Neuron Core) EXTRACTDIR is the location of the extracted Neuron Management Suite distribution tarball. LOCALDIR is the location of the Neuron runtime files (default is /var/opt/HMF).
2	If upgrading from 1.10 or earlier, no virtualization information will have discovered for any assets (this was added in 1.11). In order for HNMS to display virtualization information and associations of assets (for instance, global zone to non-global zone associations), discovery will need to be re-run for those assets. This new discovery will discover any virtualization information and relationships and update the assets accordingly. Also be aware that the root user is required to discover virtualization data.
3	Please follow the Upgrade Strategy instructions documented for previous releases if upgrading from Neuron Management Suite 1.10.0 or earlier.

Version: 1.11.0

Release Date: 2010-10-01

Enhancements

#	Description
1	Support for Red Hat Enterprise Linux has been added. See *Neuron Management Suite Installation and Configuration Guide* for details.
2	Neuron Management Server has been updated with an extensive security model. All requests that are received through the user-interface or command-line utilities are checked whether the user initiating the request is a member of required roles.
3	Neuron Module for Generic Hardware includes support for IPMI Platform Event Traps (PET). This reduces delays between event generation by the Baseboard Management Controller and processing of these events by the Neuron Management Server.
4	Fault and performance monitoring can be disabled individually for Hardware Monitor, Sun MC Server Adapter, and Ops Center Adapter.
5	The Platform Topology has been renamed to OS Topology to better indicate its contents.
6	Discovery has been extended to detect Solaris Zones and LDOMs, IPMI enabled hardware, and some Cisco and HP network devices.
7	Availability monitoring is performed for all discovered assets including Solaris Zones and LDOMS, IPMI enabled hardware, and network devices.
8	Topologies in the Event Viewer have been updated to include images for easier identification of displayed assets.
9	Event Manager provides a new panel for displaying all event details in the Rules tab. This panel can be accessed via the View Rule button in the Actions panel. It also allows traversing the rules list similar to the Event Details panel in the Event Viewer.

Bug Fixes

#	Description	Bug ID
1	Restore value of ‘Maximum number of events’ after closing the settings dialog of the Neuron Management Portal.	HMF-2331
2	Configuration editor displays count of components instead of configuration options after refresh.	HMF-2353
3	Search criteria are not applied when filters are disabled and Event Viewer list is refreshed.	HMF-2532
4	Log file monitoring for modules is still enabled after license of module expires.	HMF-2558
5	The command name printed when ProcessRule executes multiple	HMF-2565

	requests read from file is incorrect.	
6	Revision history logging does not process assets with asset attributes.	HMF-2571
7	Connection tab for Ops Center Adapter configuration displays incorrect values.	HMF-2602
8	Event Manager rules with negation operations do not match incoming events.	HMF-2607
9	Asset monikers should use short host name if available.	HMF-2608
10	Command-line utilities do not inform about missing user or password.	HMF-2609
11	ProcessAssetCredential prints wrong message if no credentials are set on the queries asset.	HMF-2617
12	Neuron Topology should limit displayed items to Neuron Server and Neuron Agents only.	HMF-2662
13	All Assets topology in Event Viewer may show incorrect icon if asset has multiple asset types.	HMF-2733
14	Event Manager displays 'null' for empty filter values.	HMF-2755
15	Neuron Topology displays incorrect highest severity for top level asset.	HMF-2760
16	Exception occurs when performing a search in Event Viewer that contains a decimal number.	HMF-2769
17	Sorting of the OS Topology in Event Viewer is random.	HMF-2780
18	Exception occurs when performing a search in Event Viewer that contains a too large number.	HMF-2789

Known Issues

#	Description
1	Installation on Linux might require manually extracting user-interface components if programs 'jar' and 'unzip' are not available. See section 'Unable to extract war files' in the *Neuron Management Suite Installation and Configuration Guide* for details.
2	Log file monitoring using the Neuron Module for Linux Hardware is only possible if the log file (/var/adm/messages) is readable by user 'halcyon'.
3	When Neuron Sun Management Center Server Adapter imports domains from a Sun MC Server the message 'Error retrieving entities for domain base.console.ConsoleTopology:domain.defaultdomain: Invalid topology info record' might be logged. A subsequent domain import will continue importing domain information.
4	The Neuron Module for Generic Hardware can monitor IPMI enabled hosts by listening for IPMI Platform Event Traps (PET). These traps must be sent to the SNMP port that is defined in the SNMP Service. By default this is 2162. Please note that the Neuron Management Server might not be able to bind to ports below 1024 since it has no root privileges.

Upgrade Strategy

#	Description
1	Some configuration properties for the Neuron Module for Generic Hardware have changed: - ipmi.hosts → ipmi.hosts.monitor.sel - refresh.interval → sel.event.refresh.interval - sel.usage.critical → sel.usage.threshold.critical - sel.usage.warning → sel.usage.threshold.warning - sel.usage.info → sel.usage.threshold.info There are also three new configuration properties: - ipmi.hosts.monitor.disable - sel.status.refresh.interval - monitoring.fault For details on how to configure Neuron Module for Generic Hardware see *README.config*.
2	If upgrading from 1.10 or earlier, no virtualization information will have discovered for any assets (this was added in 1.11). In order for HNMS to display virtualization information and associations of assets (for instance, global zone to non-global zone associations), discovery will need to be re-run for those assets. This new discovery will discover any virtualization information and relationships and update the assets accordingly. Also be aware that the root user is required to discover virtualization data.
3	Please follow the Upgrade Strategy instructions documented for previous releases if upgrading from Neuron Management Suite 1.9.0 or earlier.

Version: 1.10.0

Release Date: 2010-08-06

Enhancements

#	Description
1	The Neuron Module for Generic Hardware marks all Baseboard Management Controller (IPMI) assets also as system assets. These assets can now be seen in the “All Assets Topology” of the Neuron Event Viewer.
2	MIB files have been updated to include all fields that are used in trap definitions. These fields are now always available in SNMP traps sent to third-party Enterprise Management Frameworks.
3	System discovery can now be done using Service Tags, in addition to the previous methods of SNMP and SSH.
4	The availability of system assets is monitored and open events are generated whenever an asset is no longer reachable via a PING command. Once an asset responds again a close event is created. Assets that are not available show a black icon in the Event Viewer topologies.
5	Hostname and/or port of Neuron agents can be changed in the user-interface via the Inventory.
6	Revision logging for tables in the MIB database has been added.
7	The Event Bridge adapter has been renamed to Sun MC Server Adapter and the Sun MC Adapter is now called Sun MC Agent Adapter to better indicate the purpose of each adapter.
8	The Neuron Module for Solaris Hardware has been updated to monitor for power supply unit failures.
9	The shutdown sequence of the Neuron Management Server has been improved. This will result in shorter shutdowns without timeouts.

Bug Fixes

#	Description	Bug ID
1	Enabling firewall settings for Sun MC Server Adapter causes security errors.	HMF-2146
2	Set correct severity for open events generated by the Sun MC Agent Adapter.	HMF-2218
3	Start/stop script is not Solaris zone aware.	HMF-2281
4	Default login credentials are not documented.	HMF-2288
5	Events generated by the Performance Database Service do not indicate which host caused the event.	HMF-2322

6	Baseboard Management Controller (IPMI) assets are not shown in “All Assets” topology.	HMF-2332
7	No default values are shown for new Ops Center connections.	HMF-2354
8	Ops Center Job Status information is only available for the first configured Ops Center connection.	HMF-2366
9	Port should be displayed for Neuron agents in the Event Viewer Inventory.	HMF-2386
10	Examples in ProcessAsset help output are incorrect.	HMF-2429
11	Usage of ProcessRevisionHistoryExport is incorrect.	HMF-2431

Known Issues

#	Description
1	None.

Upgrade Strategy

#	Description
1	If you have enabled the Neuron Oracle Enterprise Manager Ops Center Adapter, due to changes in the configuration file any previously configured connections must be re-entered in the Neuron Management Portal user interface.
2	Please follow the Upgrade Strategy instructions documented for previous releases if upgrading from Neuron Management Suite 1.8.0 or earlier.

Version: 1.9.0

Release Date: 2010-05-05

Enhancements

#	Description
1	The Neuron Event Viewer has been improved by adding a user-interface that allows the discovery of physical hosts using several strategies.
2	The Neuron Event Viewer provides the following new topologies for easier navigation: • All Assets • Systems • Platforms • Neuron • Network
3	The Neuron Management Portal features a new user-interface for reviewing and updating configuration information for Neuron Management Suite and its modules and adapters.
4	Asset information can be exported from and imported into the Neuron Management Suite database. The ProcessAsset utility has been extended with the following functionality: • Export of asset data to XML • Import of asset data from XML • Conversion of asset data from XML to CVS using XSL Transformations (XSLT) • Custom stylesheets can be used to convert XML asset data • Conversion of asset data from CVS to XML
5	Neuron Management Suite supports sending and receiving of SOAP 1.1 and SOAP 1.2 messages.
6	History data displayed on the Usage tab of the Licensing page in the Neuron Management Portal can be exported to a comma-separated file.
7	A custom MIB for integration with BMC Event Manager is provided. This MIB adds definitions for the following OIDs: • 1.3.6.1.4.1.1242.1.1.3.18: domain class • 1.3.6.1.4.1.1242.1.1.3.19: object class • 1.3.6.1.4.1.1242.1.1.3.20: object • 1.3.6.1.4.1.1242.1.1.3.21: parameter name
8	Rules for SNMP traps and Oracle Enterprise Manager Ops Center events (if the corresponding adapter is installed) can be managed from within the Neuron Event Manager user-interface.
9	Operations have been added which allow the discovery of physical hosts on the network.
10	In Neuron Event Manager, display the SNMP connections to IBM Tivoli Netcool hosts that are configured in NetcoolAdapter.xml files as default action parameters.
11	Retrieval of Ops Center Job Status information and generation of fault events once jobs have been completed.

12	Retrieval of Ops Center performance data which is stored in the Neuron Management Suite performance database.
13	Add a new filter criterion “Proxy Host” for prefiltering notifications received from Oracle Enterprise Manager Ops Center.

Bug Fixes

#	Description	Bug ID
1	Emails sent by the Email Adapter contain the same icons for the severity as those displayed in the Neuron Event Viewer.	HMF-1758
2	Default port for SNMP communications set to 162, from non-standard port 1162 in Neuron Integration for IBM Tivoli Netcool.	HMF-1546
3	Sun Management Center Server Adapter processes topology events from hidden domains.	HMF-1780

Known Issues

#	Description
1	None.

Upgrade Strategy

#	Description
1	If you have installed any Neuron Management Suite adapter/module, please login to the Neuron Management Portal after the installation of Neuron Management Suite 1.9.0, and enable the adapter/module that you are interested in through the “Configuration UI” (by clicking “Configuration” in the “Neuron Explorer” panel).
2	The [LOCALDIR]/conf/service/RuleServiceSnmpFilter.drl file has been renamed to [LOCALDIR]/conf/service/TrapFilter.drl and the rule syntax has changed. The default [LOCALDIR] is /var/opt/HMF. If customized rules have been added in the RuleServiceSnmpFilter.drl file, please add them to the TrapFilter.drl file manually after installation. Refer to the default rules in TrapFilter.drl file as examples.
3	If you have installed the Neuron Module for Generic Hardware, due to changes in the structure of the configuration file the list of configured hosts must be updated manually. This can be done through the Neuron Management Portal. Select “Configuration” in the “Neuron Explorer” panel and then “HardwareMonitor”. Click on “Edit” and modify the value for “ipmi.hosts”.
4	If you have installed the Neuron Integration for Sun Ops Center, due to the name change from Sun Ops Center to Oracle Enterprise Manager Ops Center the names of configuration files have changed as follows:

- xVMAdapter.xml -> OpsCenterAdapter.xml
- xVMAdapter.drl -> OpsCenterAdapter.drl
- xVMAdapter.dsl –> OpsCenterAdapter.dsl

The configuration files are upgraded automatically. However, any custom modifications to the main configuration file (xVMAdapter.xml) must be added to the new configuration file (OpsCenterAdapter.xml) before Neuron Management Suite is started.

