OpenNMS Meridian Release Notes

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OpenNMS Meridian v2018.1.2, Last updated 2018-10-18 12:20:23 EDT

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OpenNMS Meridian 2018

System Requirements

- **Java 8**: OpenNMS Meridian 2018 requires Java 8 as the runtime environment. To run Meridian 2018, we recommend the most recent version of Oracle JDK 8 for your platform.
- **PostgreSQL 9**: Meridian 2018 requires PostgreSQL 9.x, version 9.2 or higher.

What's New in Meridian 2018

The biggest addition in Meridian 2018 is official support for the Minion. Minion is an agent-like tool for remote monitoring isolated networks as if OpenNMS could reach them locally.

On top of that, there have been many smaller improvements and enhancements since Meridian 2017.

Meridian 2018 roughly matches the feature set available in Horizon 21 and parts of Horizon 22.

Important Upgrade Notes

- **org.opennms.newts.nan_on_counter_wrap**: If you are using Newts, returning NaN when a counter-wrap is encountered now defaults to true. If you relied on the old behavior, you can change it back by setting `org.opennms.newts.nan_on_counter_wrap=false` in a file in `opennms.properties.d`.

- Event parameters have been moved to their own table, rather than being embedded (preformatted) in the `events` table. If you have a large number of events and/or event parameters in your database, the conversion while running `install` may take as long as an hour or even more. It is recommended that you archive and delete old events you do not need anymore before upgrading.

Breaking Changes

- NMS-9303: Deprecated Capsd and Linkd event definitions are removed. Otherwise unused event definitions are also cleaned up and removed from the code and configurations. For a detailed list of all removed events see NMS-9303.

- **Elasticsearch 1 API**: The old Elasticsearch API has been removed in favor of the Elasticsearch ReST plugin, which should support most Elasticsearch API versions. Instructions on configuring the Elasticsearch ReST plugin are available in the Administrators Guide.

- Property format change of `opennms.alarmTroubleTicketLinkTemplate`: Originally the `opennms.alarmTroubleTicketLinkTemplate` defined in `$OPENNMS_HOME/etc/opennms.properties` requires the full `<a href="…">${id}</a>` link to be configured. This is changed to the ticketer system url, e.g. https://issues.opennms.org/browse/${id} instead of `<a href="https://issues.opennms.org/browse/${id}">${id}</a>`. If the `opennms.alarmTroubleTicketEnabled` is `true` then the `opennms.alarmTroubleTicketLinkTemplate` must be updated as well in order to not break the link to an external ticketing system on the Alarm Details Page.

- Event parameters: There are a few side-effects of the event parameter changes.
  - When you view or retrieve an alarm it will always have the parameters of the newest event associated with it.
  - Vacuumd no longer honors the `add-all-parms` attribute on an `action-event`.

- Changes to `TCPAddress` and `UDPAddress` format in `eventd-configuration.xml`: When Eventd was converted to use Camel under the covers, the format for listening on all interfaces changed from a wildcard (`*`) to `0.0.0.0`. Note that despite looking like an IPv4 format, the JVM interprets `0.0.0.0` as listening on *all* interfaces, IPv4 and IPv6.

New Features

- **Minion**: OpenNMS Meridian now supports running Minions.
- **IBM Tivoli Event Integration Facility**: Support has been added to bridge EIF events into OpenNMS Horizon. (more details)
- **Asset Topology Provider**: The Asset Topology Provider generates a GraphML topology based on node metadata including asset fields. (more details).
- **Alarm Sounds**: The web UI can now optionally flash and play an alert sound when alarms are created and optionally updated. (more details).
- **ReST Updates**: A new experimental ReST API (`/opennms/api/v2`) has been enabled which supports JEXL.
- The topology UI now supports scriptable vertex status.
- **Alarm Northbounders**: There are new alarm northbounders for running arbitrary BSF scripts

or forwarding to Drools.

- **Web UI**: It is now possible to customize the date format used in the UI. You can configure it by overriding the `org.opennms.ui.datettimeformat` property in `opennms.properties`.
- **Hawtio**: Hawtio is now included as an optional webapp package (`opennms-webapp-hawtio`) for convenience.
- **IFTTT**: Support has been added for triggering IFTTT events based on alarms.

Events

New or updated trap definitions have been added for the following classes of devices:

- IBM EIF
- IETF DLSW
- IETF DOCSIS
- Other IETF traps

Other Improvements

- The Karaf OSGi container has been upgraded from 2.x to 4.1.5.
- The IPLIKE C and Pl/pgsql versions have been cleaned up and normalized to work the same between implementations.
- Many ActiveMQ/Camel/Kafka/etc. RPC-related APIs have been cleaned up and improved.
- Much of the data collection infrastructure has been updated and cleaned up as part of adding and improving Minion support.
- Asset addresses are now resolved to coordinates during provisioning, rather than at runtime.
- A number of improvements have been made to RADIUS support.
- It is now possible to reload Drools configuration without restarting OpenNMS.
- Many improvements were made to Enlinkd, especially in the bridge discovery code.
- Drools has been updated to 7.x. It should be backwards compatible with existing 6.x-based Drools configurations.
- Many other small enhancements and fixes for the topology UI.

Release Meridian-2018.1.2

Release 2018.1.2 is an update to Meridian 2018.1.1. It contains a number of bug fixes and a few enhancements, including improvements to VMware connection pooling.

The codename for 2018.1.2 is *Light breeze*.

Bug

- Wrong data type for certain Cassandra JMX counters (Issue NMS-10352)
- Cannot override TTL when running the Karaf Command collections:collect through Minions

(Issue NMS-10367)

- Erroneous INFO-level log messages during every forced node rescan (Issue NMS-10370)
- Wrong JMX MBeans for minions (Issue NMS-10372)
- `find-java.sh` doesn't understand newer JDK output (Issue NMS-10401)
- int overflow in InstallerDb causes bamboo failures (Issue NMS-10402)

Enhancement

- Be able to use Proxy for any Monitor or Collector that uses HttpClientWrapper directly (Issue NMS-10312)
- Be able to use Proxy for any Monitor or Collector that uses HttpClient via UrlFactory (Issue NMS-10313)
- Improve concurrency in Vmware Connection Pool (Issue NMS-10373)

Release Meridian-2018.1.1

Release 2018.1.1 is an update to Meridian 2018.1.0. It contains a few bug fixes and enhancements.

The codename for 2018.1.1 is *Light air*.

Bug

- Minions without nodes should show "unknown" status (Issue NMS-10338)
- navbar.ftl not rendering (Issue NMS-10342)

Enhancement

- add polling interval definition on service UI (Issue NMS-9747)
- Improve CDP topology calculation performance (Issue NMS-10317)
- Memory related env-variables from /etc/sysconfig/minion are not honored (Issue NMS-10332)
- Manage Minions page should link to the node for the minion (Issue NMS-10296)

Release Meridian-2018.1.0

Release 2018.1.0 is the first release in the Meridian 2018 series.

The codename for 2018.1.0 is *Calm*.

Bug

- maxRetCode in HttpDetector does not work (Issue NMS-3974)
- VMWare-Center-Monitoring make for every virtual machine a login/logout (Issue NMS-8204)
- bridge topology is wrong on nodelink.jsp (Issue NMS-8295)
- The ReST API used to return XMLs with namespace, and now it doesn't (Issue NMS-8524)

- Content-Type tag wrong in emailed reports (Issue NMS-9027)

- The upgrade task for magic-users.properties fails because of the read-only attribute (Issue NMS-9267)

- Topology on Map is not properly displayed (Issue NMS-9288)

- Exceptions in Bridge Discovery (Issue NMS-9557)

- Config-tester not validating varbind matching in event files (Issue NMS-9821)

- Wrong initial message displayed on AngularJS based tables. (Issue NMS-9932)

- Home Page Map does not display node details (Issue NMS-10008)

- Asset record is not being updated with user name that performed the update (Issue NMS-10087)

- wrong statement in event description for serviceDeleted (Issue NMS-10148)

- Radius Login Problem (Issue NMS-10212)

- Trapd does not validate config against XSD (Issue NMS-10242)

- Drools correlation engine do not always respond to targeted reloadDaemonConfig events (Issue NMS-10257)

- newSuspect events do not get processed when they reference a missing system id (aka distpoller) (Issue NMS-10261)

- Change in JMS NBI Date Format (Issue NMS-10282)

- NoClassDefFoundError for net/sf/json/JSONSerialize with the JSON collector on Minion (Issue NMS-10286)

- DefaultProvisionService logs noisily for monitored service having state "N" (Issue NMS-10291)

- Doughnut chart shows certain closed outages as "current" (Issue NMS-10293)

- KSC Report Changes Destroys Existing Reports (Issue NMS-10309)

- Minions can't be deleted from minion menu (Issue NMS-10321)

Enhancement

- Remove Telemetryd from the configuration files to avoid confusions (Issue LTS-223)

- Release notes in Help / Support links to 2015 (Issue LTS-214)

- UI stack trace is truncated (Issue NMS-7555)

- Add Ironport AsyncOS Mail Gateway Events (Issue NMS-9794)

- Make hawtio available for OpenNMS as installable RPM/DEB (Issue NMS-9858)

- Upgrade Drools to 7.x (Issue NMS-9923)

- Subsume "Event Configuration How-To" from wiki into admin guide (Issue NMS-9926)

- Can't receive SNMP v3 Trap (Issue NMS-10009)

- Enhance AlarmPersisterImpl to support updating acknowledgment values on reduction (Issue NMS-10067)

- Normalize date formats across the WebUI (Issue NMS-10072)

- Support customizing the default time zone when parsing dates in syslog messages (Issue NMS-10164)

- Consolidate Kafka client library versions (Issue NMS-10165)

- Link to privacy policy from Data Choices UI elements (Issue NMS-10169)

- Karaf shell command to enumerate nodes that match a given filter (Issue NMS-10172)

- Optionally persist the results when calling collectors:collect (Issue NMS-10173)

- Two Port Bridge - Topology mismatch (Issue NMS-10225)

- use user defined time zone for date formatting (Issue NMS-10228)

- render date for Javascript with moment.js (Issue NMS-10233)

- plpgsql IPLIKE does not behave the same as the C version (Issue NMS-10238)

- apply centralized datetime rendering to freemarker template(s) (Issue NMS-10239)

- apply custom tag to ncs-alarms.jsp (Issue NMS-10243)

- Update log4j2.xml with kafka logging (Issue NMS-10269)

- Syslog messages should default to using the time at which they were received (Issue NMS-10271)

- Syslog messages should default to being associated with the hosts from which they were received (Issue NMS-10272)

- implement minion "status" field (Issue NMS-10295)

- expose datetimeformat in InfoService REST Endpoint (Issue NMS-10301)

- Set the default resource graph time range to "Last Day" (Issue NMS-10324)