

# OpenNMS Meridian Release Notes

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OpenNMS Meridian v2015.1.10  
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# OpenNMS Meridian Development Team

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OpenNMS is the creation of numerous people and organizations, operating under the umbrella of the OpenNMS project.

The original code base was developed and published under the GPL by the Oculan Corporation until 2002, when the project administration was passed on to Tarus Balog.

The current corporate sponsor of OpenNMS is The OpenNMS Group, which also owns the OpenNMS trademark.

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- Mapping code Copyright © 2003 Networked Knowledge Systems, Inc.
- ScriptD code Copyright © 2003 Tavve Software Company.

Please send any omissions or corrections to this document to Tarus Balog.

# Chapter 1. Changelog

## OpenNMS Meridian 2015

### Release Meridian-2015.1.10

Release 2015.1.10 is the eleventh release of OpenNMS Meridian 2015. It contains a critical fix for RADIUS support as well as a couple of other smaller fixes. The codename for 2015.1.10 is *TAHT* (it's a magical place).

#### Breaking Changes

A security issue in the `RadiusAuthenticatinProvider` has been fixed (Issue [NMS-10212](#)) This requires changes to the `radius.xml` file located in `${OPENNMS_HOME}/jetty-webapps/opennms/WEB-INF/spring-security.d`. Now instead of providing a bean for the `authTypeClass` property, it is sufficient to just provide the class name:

#### Before

```
<?xml version="1.0" encoding="UTF-8"?>
<beans:beans xmlns="http://www.springframework.org/schema/security"
  xmlns:beans="http://www.springframework.org/schema/beans"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
    http://www.springframework.org/schema/security
    http://www.springframework.org/schema/security/spring-security-3.1.xsd">
  <beans:bean id="externalAuthenticationProvider" class=
    "org.opennms.protocols.radius.springsecurity.RadiusAuthenticationProvider">
    <!-- ... -->
    <beans:property name="authTypeClass"><beans:bean class="net.jradius.client.auth.PAPAuthenticator"
  /></beans:property>
    <!-- ... -->
  </beans:bean>
</beans:beans>
```

#### After

```
<?xml version="1.0" encoding="UTF-8"?>
<beans:beans xmlns="http://www.springframework.org/schema/security"
  xmlns:beans="http://www.springframework.org/schema/beans"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
    http://www.springframework.org/schema/security
    http://www.springframework.org/schema/security/spring-security-3.1.xsd">
  <beans:bean id="externalAuthenticationProvider" class=
    "org.opennms.protocols.radius.springsecurity.RadiusAuthenticationProvider">
    <!-- ... -->
    <beans:property name="authTypeClass" value="net.jradius.client.auth.PAPAuthenticator"/>
    <!-- ... -->
  </beans:bean>
</beans:beans>
```

Supported values for `authTypeClass` are:

- `net.jradius.client.auth.TunnelAuthenticator`

- `net.jradius.client.auth.PAPAuthenticator`
- `net.jradius.client.auth.EAPMSCHAPv2Authenticator`
- `net.jradius.client.auth.MSCHAPv2Authenticator`
- `net.jradius.client.auth.EAPMD5Authenticator`
- `net.jradius.client.auth.CHAPAuthenticator`
- `net.jradius.client.auth.MSCHAPv1Authenticator`
- `net.jradius.client.auth.RadiusAuthenticator`
- `net.jradius.client.auth.EAPAuthenticator`

If no value is provided `net.jradius.client.auth.PAPAuthenticator` is used.

### Bug

- `ConcurrentModificationException` in `DefaultEventHandlerImpl` (Issue [NMS-8413](#))
- Java not found properly when building from Windows CMD proc (Issue [NMS-9947](#))
- Radius Login Problem (Issue [NMS-10212](#))

## Release Meridian-2015.1.9

Release 2015.1.9 is the tenth release of OpenNMS Meridian 2015. It contains a keyboard-navigation fix and a few documentation/date updates. The codename for 2015.1.9 is *MIST*.

### Bug

- Tweak Mattermost notification docs not to specify a channel (Issue [NMS-9362](#))
- Inconsistent handling of keyboard navigation on top menu (Issue [NMS-9867](#))
- Copyright dates need a bump for 2018 (Issue [NMS-9871](#))

## Release Meridian-2015.1.8

Release 2015.1.8 is the ninth release of OpenNMS Meridian 2015. It contains a cross-site-scripting security fix. The codename for 2015.1.8 is *CHOST*.

### Bug

- Multiple XSS vulnerabilities in OpenNMS webapp (Issue [NMS-9457](#))
- `opennms-webapp-remoting` JARs are not signed (Issue [NMS-9638](#))

## Release Meridian-2015.1.7

Release 2015.1.7 is the eighth release of OpenNMS Meridian 2015. It contains a few small bug fixes. The codename for 2015.1.7 is *ROTT*.

## Bug

- The reason parameter for a nodeLostService event is limited to 255 characters (Issue [NMS-9550](#))
- Remote Poller log path incorrect when using the NSIS installer (Issue [NMS-9631](#))

## Release Meridian-2015.1.6

Release 2015.1.6 is the seventh release of OpenNMS Meridian 2015. It contains a few bug fixes. The codename for 2015.1.6 is *MVT*.

## Bug

- collectd does not unschedule deleted nodes (Issue [NMS-5105](#))
- Security issue for all admin vaadin applications exposed as OSGI Service (Issue [NMS-8431](#))
- XSS vulnerability on node error page (Issue [NMS-9354](#))
- XSS vulnerability with application names (Issue [NMS-9355](#))
- NullPointerException during nodeScan on devices with broken IP-MIB::ipAddressIfIndex (Issue [NMS-9415](#))
- "query" parameter allows SQL injection (Issue [NMS-9478](#))
- Fix ownership of users.xml (Issue [NMS-9493](#))
- Update copyright date in docs (Issue [NMS-9516](#))
- users.xml being overwritten on installation (Issue [NMS-9573](#))

## Release Meridian-2015.1.5

Release 2015.1.5 is the sixth release of OpenNMS Meridian 2015. It contains a few bug fixes and minor enhancements. The codename for 2015.1.5 is *NT*.

## Bug

- OpenNMS doesn't correctly support IPv6 addresses for (jasper) reporting (Issue [NMS-5450](#))
- Restarting OMNS results in numerous SNMP outage alarms and notifications (Issue [NMS-8620](#))
- Poller Node Down without outages (Issue [NMS-8751](#))
- Threshold editor help text unclear about comparison operators (Issue [NMS-8826](#))
- Invalid graph templates (Issue [NMS-8907](#))
- Near Real-Time Graphing unable to graph Cisco BDI interfaces (Issue [NMS-8908](#))
- Copyright bump 2017 (Issue [NMS-9060](#))
- opennms.conf can break the snmp-request command (Issue [NMS-9068](#))
- Jsr160ConnectionFactory doesn't work with IPv6 address (Issue [NMS-9071](#))

- Migrate RTC related objects to JAXB instead of Castor (Issue [NMS-9100](#))
- Pollerd continues to monitor deleted nodes (Issue [NMS-9112](#))
- SNMP client code can get stuck in infinite retry loops (Issue [NMS-9164](#))
- SyslogParser should not assume UTC timestamps (Issue [NMS-9201](#))

#### Enhancement

- SNMP data collection definitions for Cisco ASA5585-SSP-60 devices (Issue [NMS-9094](#))
- Enhance to MockSnmpAgent to support returning arbitrary SNMP error codes (Issue [NMS-9163](#))

### Release Meridian-2015.1.4

Release 2015.1.4 is the fifth release of OpenNMS Meridian 2015. It contains a few bug fixes and minor enhancements. The codename for 2015.1.4 is *ULAST*.

#### Bug

- If a target node is rebooted the RRD/JRB files contains spikes because the sysUpTime check is not working (Issue [NMS-7106](#))
- SVG maps shows minimum alarm severity color instead of maximum (Issue [NMS-8658](#))
- Any SNMP error-status > 5 treated as unrecognized, aborts AggregateTracker (Issue [NMS-8671](#))
- RRDtool 1.6 doesn't like vames called ds (Issue [NMS-8775](#))
- Elasticsearch Test Cluster is started even if tests are skipped (Issue [NMS-8783](#))
- The search page for events is not working as expected (Issue [NMS-8790](#))
- The "Recent Events" in the node page, shows HTML tags on the message (Issue [NMS-8794](#))
- Several ICMPv6 tests fail with NoRouteToHostException (Issue [NMS-8840](#))
- user detection in `install` is busted on some Linux systems (Issue [NMS-8843](#))
- Updating assets/categories through ReST affects Forced Unmanaged services. (Issue [NMS-8879](#))
- wsdl2java in features/ticketing/remedy is causing build failures (Issue [NMS-8940](#))

#### Enhancement

- Allow filtering by severity in alarm list (Issue [NMS-8851](#))
- Expose alarm-list "limit" parameter as a UI control (Issue [NMS-8852](#))

### Release Meridian-2015.1.3

Release 2015.1.3 is the fourth release of OpenNMS Meridian 2015. It contains a few bug fixes, including a fix to a XSS vulnerability in the web UI. The codename for 2015.1.3 is *LHST*.

## Bug

- Syslogd may not associate messages with new nodes without a restart (Issue [NMS-7236](#))
- No event for Informational syslog (Issue [NMS-7934](#))
- The categories ReST end point returns HTTP 500 when querying it with a browser. (Issue [NMS-8637](#))
- Database Reports Are Emailed When "Email report" is Unchecked (Issue [NMS-8654](#))
- Custom Resource graphs draw magenta lines if "Blue" is selected (Issue [NMS-8655](#))
- SVG maps shows minimum alarm severity color instead of maximum (Issue [NMS-8658](#))
- Site status view gives a 400 error for aggregate view for node downs (Issue [NMS-8700](#))
- XSS vulnerability in display of SNMP sysName and trap varbind values (Issue [NMS-8722](#))
- Trapd JMX trap counters don't count traps (Issue [NMS-8744](#))

## Release Meridian-2015.1.2

Release 2015.1.2 is the third release of OpenNMS Meridian 2015. It contains a number of bug fixes and new device support since 2015.1.1. The codename for 2015.1.2 is *EASST*.

### Breaking Changes

- Graph definition errors AERA (Issue [LTS-199](#))
- OEM graph for Storage Utilization fails due to ':' (Issue [NMS-8519](#))

## Bug

- Topology-UI shows LLDP links not correct (Issue [NMS-8003](#))
- JNA ping code reuses buffer causing inconsistent reads of packet contents (Issue [NMS-8126](#))
- Install -dis on "SocketException:Too many open files" on centos:latest docker (Issue [NMS-8200](#))
- All the defined Statsd's reports are being executed even if they are disabled. (Issue [NMS-8274](#))
- An error on threshd-configuration.xml breaks Collectd when reloading thresholds configuration (Issue [NMS-8304](#))
- JdbcCollector does not close database connections correctly (Issue [NMS-8488](#))
- HW ENTITY\_MIB plugin is not showing all information for certain devices (Issue [NMS-8506](#))
- Requisitioned IP interfaces never have ipHostName set (Issue [NMS-8593](#))

### Configuration

- Distributed/Geographical Maps do not show images anymore (Issue [NMS-8597](#))

### Enhancement

- Create a command line tool for compiling all the report template files. (Issue [LTS-198](#))



- Backport Configuration from Meridian 2016 to Meridian 2015 (Issue [LTS-202](#))
- Copyright bump on asciidoc docs (Issue [NMS-8219](#))
- Alphabetize nodes in surveillance category listing (Issue [NMS-8535](#))

## Release Meridian-2015.1.1

Release 2015.1.1 is the second release of OpenNMS Meridian 2015. It contains a number of bug fixes as well as a few security fixes over 2015.1.0. The codename for 2015.1.1 is *UTC*.

### Bug

- Database reports fail with 500 error (Issue [LTS-184](#))
- Forecasting reports fail to render when datasource includes "inf" (Issue [LTS-185](#))
- Default JMX Config Generator Throw Error (Issue [LTS-187](#))
- JMX Config Generator Does Not Run in PoweredBy Branch (Issue [LTS-191](#))
- When removing nodes from a provisioning group, the removed nodes may still be referenced in KSC reports; thus resulting in errors accessing those reports until the nodes are manually removed. (Issue [NMS-4399](#))
- JMX Config Tool CLI is not packaged correctly (Issue [NMS-5946](#))
- NRTG is throwing ConcurrentModificationException (Issue [NMS-6536](#))
- IfIndex not updated in ipinterface table on change (Issue [NMS-6567](#))
- Event Translator cant translate events with update-field data present (Issue [NMS-7024](#))
- Remove the logging directories from the DEB package (Issue [NMS-7192](#))
- IllegalArgumentException on ipnettomediatable (Issue [NMS-7358](#))
- 1.12.9-2 rpm install broken (Issue [NMS-7398](#))
- KSC Reports with non-existing resources generate exceptions on the WebUI (Issue [NMS-7400](#))
- Double footer in resource graph page (Issue [NMS-7412](#))
- queued creates its own category for loggings (Issue [NMS-7485](#))
- Queued daemon seems to ignore loglevel (Issue [NMS-7510](#))
- XML Collector is not working as expected for node-level resources (Issue [NMS-7516](#))
- Some parameters logged out of order since slf4j conversion (Issue [NMS-7603](#))
- Compass can't make a POST request from FILE URLs in some cases (Issue [NMS-7616](#))
- The PSM doesn't work with IPv6 addresses if the `#{ipaddr}` placeholder is used on host or virtual-host (Issue [NMS-7626](#))
- Timeline image links are not working with services containing spaces (Issue [NMS-7629](#))

- Match event params for auto-ack of Notification (Issue [NMS-7631](#))
- include-url doesn't work on poller packages (Issue [NMS-7633](#))
- Node resources are deleted when provisiond aborts a scan (Issue [NMS-7636](#))
- Default date width in Database Reports is too small (Issue [NMS-7637](#))
- The global variable `org.opennms.rrd.queuing.category` is set to `OpenNMS.Queued` and should be `queued` (Issue [NMS-7642](#))
- Fixing Logging Prefix/Category on several classes (Issue [NMS-7644](#))
- XML data collection with HTTP POST requests is not working (Issue [NMS-7650](#))
- Improving exception handling on the XML Collector (Issue [NMS-7651](#))
- Logging not initialized but used on Drools Rule files. (Issue [NMS-7695](#))
- NumberFormatException in LldpUtils (Issue [NMS-7697](#))
- Hibernate exception in AlarmDetailsDashlet (Issue [NMS-7698](#))
- 'More...' event link on `/opennms/element/service.jsp` encodes URL incorrectly (Issue [NMS-7714](#))
- Log messages for the Correlation Engine appear in `manager.log` (Issue [NMS-7729](#))
- SeleniumMonitor with PhantomJS driver needs gson JAR (Issue [NMS-7748](#))
- Cannot edit some Asset Info fields (Issue [NMS-7750](#))
- The command `/opt/opennms/bin/ilr` doesn't work (Issue [NMS-7760](#))
- `nodeCategoryChanged` event on already-down node makes extra `nodeDown` events (Issue [NMS-7761](#))
- Incorrect unit divisor in LM-SENSORS-MIB graph definitions (Issue [NMS-7766](#))
- OpenNMS won't start anymore with 512MB of Heap Size (Issue [NMS-7783](#))
- Some weak cipher suites allowed in example `jetty.xml` HTTPS config (Issue [NMS-7812](#))
- The reload config for `Collectd` might throws a `ConcurrentModificationException` (Issue [NMS-7824](#))
- NPE on "manage and unmanage services and interfaces" (Issue [NMS-7828](#))
- "No session" error during startup in `EnhancedLinkdTopologyProvider` (Issue [NMS-7835](#))
- Fix for [NMS-6567](#) prevents interfaces from acquiring SNMP interface records on rescan (Issue [NMS-7838](#))
- Counter variables reported as strings (like `Net-SNMP extent`) are not stored properly when using `RRDtool` (Issue [NMS-7839](#))
- Slow `LinkdTopologyProvider/EnhancedLinkdTopologyProvider` in bigger environments (Issue [NMS-7846](#))
- distributed details page broken (Issue [NMS-7855](#))

- Cisco Packets In/Out legend label wrong (Issue [NMS-7857](#))
- Enlinkd CDP code fails to parse hex-encoded IP address string (Issue [NMS-7858](#))
- IpNetToMedia Hibernate exception in enlinkd.log (Issue [NMS-7861](#))
- HttpClient ignores socket timeout (Issue [NMS-7877](#))
- RTC Ops Board category links are broken (Issue [NMS-7884](#))
- Remedy Integration: the custom code added to the Alarm Detail Page is gone. (Issue [NMS-7890](#))
- Statsd PDF export gives class not found exception (Issue [NMS-7897](#))
- JMX Configgenerator Web UI throws NPE when navigating to 2nd page. (Issue [NMS-7900](#))
- Alarm detail filters get mixed up on the ops board (Issue [NMS-7917](#))
- Exception Decoding LLDP ChassisId When type is NetworkAddress (Issue [NMS-7931](#))
- Bouncycastle JARs break large-key crypto operations (Issue [NMS-7959](#))
- Jsoup doesn't properly parse encoded HTML character which confuses the XML Collector (Issue [NMS-7963](#))
- MBean attribute names are restricted to a specific max length (Issue [NMS-7964](#))
- RMI should only bind to localhost by default. (Issue [NMS-7971](#))
- The ICMP monitor can fail, even if valid responses are received before the timeout (Issue [NMS-7974](#))
- JMX Configuration Generation misbehavior on validation error (Issue [NMS-7977](#))
- JMX configuration generator throws NoClassDefFoundError exception (Issue [HZN-432](#))
- Migrate the JMX Configuration Generator (webUI) to Vaadin 7 (Issue [HZN-417](#))

### Enhancement

- Interactive JMX data collection configuration UI (Issue [NMS-4364](#))
- Improve links for SLA categories on start page (Issue [NMS-7713](#))

## Release Meridian-2015.1.0

Release 2015.1.0 is the first release of OpenNMS Meridian 2015. It is based on OpenNMS Horizon 14.0.3, the Bootstrap GUI shipped in OpenNMS Horizon 15, and many smaller bug fixes.

The codename for 2015.1.0 is *Greenwich*.

## Chapter 2. Known Issues and Caveats

Here is the list of known issues in this release of OpenNMS:

### 2.1. Current Release

There are no known issues in the current release.

# Chapter 3. Supported Systems

## 3.1. Supported Systems

OpenNMS is written almost entirely in Java, and should be able to run on nearly any system that supports the Sun Java Virtual Machine.

OpenNMS Meridian is officially supported out-of-the-box, with native installation packages, on the following platforms:

- Red hat Enterprise Linux 5 and higher
- CentOS 5 and higher

## 3.2. 3rd-Party Dependencies

OpenNMS Meridian requires Java 7 JDK or greater, and PostgreSQL 8.4 or greater. OpenNMS Meridian also requires RRDtool 1.4. An appropriate build of RRDtool and JRRD should be installed automatically when you install OpenNMS Meridian.