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OpenNMS Meridian v2020.1.40, Last updated 2023-10-10 15:57:29 UTC

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OpenNMS Meridian 2020

System Requirements

- Java 8 through 11: OpenNMS Meridian 2020 runs on JDK 8 through 11. We recommend the most recent version of OpenJDK 11.
- **Default Heap Size**: The default heap size is 2GB.
- PostgreSQL 10 or higher: Meridian 2020 requires any supported version of PostgreSQL 10 or higher.

What's New in Meridian 2020

Since Meridian 2019, we have refined a number of the features introduced relating to telemetry, correlation, and other underlying APIs.

Meridian 2020 roughly matches the feature set available in Horizon 26.1.

Documentation Updates

Documentation improvements have been made in a number of areas:

- Docker
- Grafana PDF Reports
- Graph Service API
- Minion
- · Telemetry/flows
- Thresholding
- Timeseries Integration

Graph API

A new API has been added for querying graph data, inspired by GraphML. This API consolidates a number of internal APIs for accessing topology, application, BSM, link, and other data.

Kafka and RPC

The RPC APIs for communicating between the OpenNMS core, Minion, and Sentinel have been improved, including adding support for gRPC communication.

It is now possible to configure Kafka to use a single topic for communication rather than one per module.

You can now configure flow data to be enriched with node metadata before being forwarded to Kafka.

Minion and Sentinel

- The Minion can now be configured using confd by creating a minion-config.yaml file. For details, see the README in the Minion source.
- The Minion Docker container has a number of enhancements:
 - Minion container sizes have been halved.
 - Native ICMP support has been added to improve performance.
 - Dockerized Minion now supports ARM.
- The Jolokia HTTP-JMX bridge has been added to the Minion and Sentinel.

Polling and Monitoring

- The HTTP POST monitor has been updated to support injecting headers into the request.
- The poller now does a better job of validating configs on startup/reload.

Provisioning

- Provisiond has been enhanced to improve performance of scans.
- Nodes provisioned through new suspect events now get assigned a foreign source.

Telemetry and BMP

- The flow classification editor now supports CIDR notation for IP address expressions.
- Support has been added for the BGP Monitoring Protocol (BMP).

Time-Series API

A new experimental internal API has been added for supporting persisting time-series data in a way that doesn't carry the baggage of the existing persistence APIs which are still heavily influenced by RRDTool.

Web UI Improvements

- The navbar notification alert now shows everywhere, not just the front page.
- The "user" menu has been reorganized and cleaned up.
- The requisitions UI now supports deleting a node from its node page in the editor.

Breaking Changes

Flow Classification

In Meridian 2019, the Flow Classification UI accepted invalid IP address values, e.g., 10,192.1,168.1,5.1-160. When upgrading OpenNMS Meridian, existing Flow Classification Rules may be considered invalid. In this case they are silently ignored by the Flow Classification Engine.

In order to assure no invalid Flow Classification Rules exist, please run the OSGi shell command opennms-classification:list-invalid-rules to list a ll invalid rules. If there are any invalid rules, you must manually fix them using the Flow Classification UI. For more details, refer to issue NMS-12422.

Events and Kafka

Events forwarded to Kafka are now keyed by id rather than uei.

Karaf Shell Command Changes

All of the custom Karaf shell commands have now been updated to use a common scope of opennms. This makes it easier to find and enumerate the commands.

Mapping from previous to new commands is as follows:

Previous Command	New Command
opennms-provision:detect	opennms:detect
opennms-provision:list-detectors	opennms:list-detectors
opennms-provision:show-import	opennms:show-import
opennms-provision:import-requisition	opennms:import-requisition
opennms-dns:lookup	opennms:dns-lookup
opennms-dns:reverse-lookup	opennms:dns-reverse-lookup
opennms-ping:sweep	opennms:ping-sweep
opennms-ping:ping	opennms:ping
opennms-jira:list-projects	opennms:jira-list-projects
opennms-jira:verify	opennms:jira-verify
opennms-jira:show-config	opennms:jira-show-config
opennms-jira:list-priorities	opennms:jira-list-priorities
opennms-jira:list-fields	opennms:jira-list-fields
opennms-jira:list-versions	opennms:jira-list-versions
opennms-jira:list-issue-types	opennms:jist-list-issue-types
opennms-jira:list-components	opennms:jira-list-components
opennms-scv:set	opennms:scv-set
opennms-scv:get	opennms:scv-get
opennms-datachoices:reset-system-id	opennms:datachoices-reset-system-id
opennms-datachoices:display-usage-report	opennms:datachoices-display-usage-report
opennms-datachoices:send-usage-report	opennms:datachoies-send-usage-report
opennms-poller:test	opennms:poll-test

Previous Command	New Command
opennms-poller:list-monitors	opennms:list-monitors
opennms-poller:poll	opennms:poll
opennms-filters:filter	opennms:filter
opennms-measurements:show-newts-samples	opennms:show-newts-samples
opennms-measurements:delete-resource	opennms:delete-measurement-resources
opennms-measurements:show-measurements	opennms:show-measurements
opennms-measurements:show-resources	opennms:show-measurement-resources
opennms-enlinkd:delete-topology	opennms:delete-topology
opennms-enlinkd:generate-topology	opennms:generate-topology
opennms-provision:list-detectors	opennms:list-detectors
opennms-collection:list-collectors	opennms:list-collectors
opennms-minion:id	opennms:minion-id
opennnms-minion:ping	*Removed in favor of opennms:health-check
opennms-dns:stress	opennms:stress-dns
opennms-kafka-producer:sync-alarms	opennms:kafka-sync-alarms
opennms-kafka-producer:push-topology-edges	opennms:kafka-push-topology-edges
opennms-kafka-producer:evaluate-filter	opennms:kafka-evaluate-filter
opennms-kafka-producer:list-alarms	opennms:kafka-list-alarms
opennms-nodecache:sync	opennms:sync-node-cache
opnennms-coordination:join-election-domain	opennms:join-election-domain
opennms-kv-blob:put	opennms:kv-put-blob
opennms-kv-blob:get	opennms:kv-get-blob
opennms-kv-blob:benchmark	opennms:kv-benchmark-blob
opennms-kv-json:get	opennms:kv-get-json
opennms-kv-json:put	opennms:kv-put-json
opennms-classification:list-rules	opennms:list-classification-rules
opennms-classification:reload-engine	opennms:reload-classification-engine
opennms-classification:list-groups	opennms:list-classification-groups
opennms-classification:list-invalid-rules	opennms:list-classification-invalid-rules
opennms-classification:classify	opennms:classify-flow
opennms-elasticsearch:send-historic-events	opennms:send-events-to-elasticsearch
opennms-events:show-event-config	opennms:show-event-config
opennms-reload:daemon	opennms:reload-daemon

Previous Command	New Command
opennms-events:stress	opennms:stress-events
opennms-events:send	opennms:send-event
opennms-bsm:generate-hierarchies	opennms:bsm-generate-hierarchies
opennms-bsm:delete-generated-hierarchies	opennms:bsm-delete-generated-hierarchies
opennms-bsm:render-graph	opennms:bsm-render-graph
opennms-asset-topology:regenerate	opennms:asset-topo-regenerate
opennms-asset-topology:remove	opennms:asset-topo-remove
opennms-asset-topology:list	opennms:asset-topo-list
opennms-asset-topology:create	opennms:asset-topo-create
opennms-asset-topology:regenerateall	opennms:asset-topo-regenerate-all
opennms-topo:show-history	opennms:topo-show-history
opennms-topo:delete-history	opennms:topo-delete-history
opennms-onms:listnamespaces	opennms:list-namespaces
opennms-topo:listoperations	opennms:topo-list-operations
opennms-activemq:stats	opennms:activemq-stats
opennms-activemq:purge-queue	opennms:activemq-purge-queue
opennms-sentinel:id	opennms:id
opennms-collection:list-collectors	opennms:list-collectors
opennms-collection:collect	opennms:collect
opennms-metrics:stress	opennms:stress-metrics
opennms-threshold-states:details	opennms:threshold-details
opennms-threshold-states:enumerate	opennms:threshold-enumerate
opennms-threshold-states:clear-all	opennms:threshold-clear-all
opennms-threshold-states:clear	opennms:threshold-clear
opennms-meta:test	opennms:metadata-test
opennms-rpc:stress	opennms:stress-rpc
opennms-kafka-sink:topics	opennms:kafka-sink-topics
opennms-kafka-rpc:topics	opennms:kafka-rpc-topics
opennms-snmp:fit	opennms:snmp-fit
opennms-snmp:show-config	opennms:snmp-show-config
opennms-snmp:remove-from-definition	opennms:snmp-remove-from-definition
opennms-snmp:walk	opennms:snmp-walk
snmp:local-engine-id	opennms:snmp-local-engine-id

Previous Command	New Command
opennms-health:metrics-list	opennms:metrics-list
opennms-health:metrics-display	opennms:metrics-display
opennms-health:check	opennms:health-check
opennms-graph:get	opennms:graph-get
opennms-graph:list	opennms:graph-list
opennms-graph:force-reload	opennms:graph-force-reload
opennms-graph:search	opennms:graph-search

Kafka Producer Metrics

• For Interface Resources, a String attribute named __ifIndex is added to represent missing Interface ifIndex in String form.

Notable Internal Changes

- Kafka has been updated to version 2.4.0.
- Protobuf has been updated to version 3.11.4.
- The OpenNMS Integration API is now version 0.4.
- Internally, events are, in most cases, immutable. For the most part, you should see no changes in the external and code places that events are interacted with. They are converted to mutable versions in places where they are often manipulated (like Drools).

Other Improvements

Since Meridian 2020 is based on Horizon 26.1, it contains all the fixes and updates that have occurred since Meridian 2019 was created from the Horizon 25 codebase.

For a more complete list of major changes included in this release, see the "What's New" documentation for Horizon 26.1.3.

Changelog

Release Meridian-2020.1.40

Release 2020.1.40 contains a fix for a login page issue when using pre-authentication. This is the last supported release of Meridian 2020, as its 3-year cycle is ending.

The codename for Meridian 2020.1.40 is *River Delta*.

Bug

• login.jsp page is still visible/accessible after being authenticated by pre-authentication (Issue

Release 2020.1.39 contains a backport of some UI security fixes, as well as a couple other small fixes.

The codename for Meridian 2020.1.39 is *Beach Cusps*.

Bug

- Prevent Angular evaluation of strings enclosed by two curly braces in non-Angular form-fields and output (Issue NMS-15504)
- Polling fails when rrd-status is set to true (Issue NMS-15806)
- Back-port Angular evaluation prevention in non-Angular fields to foundation-2020 (Issue NMS-16052)
- Update Instrumentation Log Reader to parse IPv6 addresses (Issue NMS-16114)

Release Meridian-2020.1.38

Release 2020.1.38 contains several important security fixes, one fix for a potential DOS vulnerability, and one general bugfix.

Thanks to the following researchers for responsibly disclosing security issues in this release:

- Jordi Miralles reported issue NMS-15703, NMS-15782, and NMS-15783.
- OSS Fuzz reported issue NMS-15877.

The codename for Meridian 2020.1.38 is Dune System.

Bug

- backport fixes from Spring Security 5.x to custom Spring Security 4.2.20.RELEASE (Issue NMS-15663)
- ROLE_REST can be used to escalate to ROLE_ADMIN via /rest/users (Issue NMS-15703)
- Stored XSS in multiple JSP files in opennms/opennms (Issue NMS-15782)
- Reflected XSS in multiple JSP files in opennms/opennms (Issue NMS-15783)
- protobuf-java has a potential Denial of Service issue (Issue NMS-15877)
- Error on startup with Invalid CEN header exception (Issue NMS-16034)

Enhancement

• Disable BeanShell interpreter remote server mode (Issue NMS-15793)

Release 2020.1.37 contains a few general bug fixes.

The codename for Meridian 2020.1.37 is *Bay*.

Bug

- Inconsistent references to JMXCollect/Monitor for "password-clear"/"password_clear" (Issue NMS-14884)
- Database deadlock caused by JdbcFilterDao (Issue NMS-15696)
- https redirection is partially broken (Issue NMS-15732)
- Add /usr/lib64/jvm to find-java.sh search paths (Issue NMS-15784)
- Polling fails when rrd-status is set to true (Issue NMS-15806)

Enhancement

• Verify which .properties files in \$OPENNMS_HOME/etc/ should be overwritten by upgrade (Issue NMS-15430)

Release Meridian-2020.1.36

Release 2020.1.36 contains one CVE-related security fix, a handful of general bug fixes, and a couple of small enhancements.

The codename for Meridian 2020.1.36 is Islet.

Breaking changes

• This release has moved to a newer major version of Spring Security to address a number of CVEs, which necessitated changes to the <code>\$OPENNMS_HOME/jetty-webapps/opennms/WEB-INF/applicationContext-spring-security.xml</code> file, so if you have modified this file in your installs, be sure to note your changes so you can re-apply them to the updated version.

- Invalid redirect when behind a reverse proxy (Issue NMS-14805)
- Events and alarms search return error 405 POST method not allowed (Issue NMS-15031)
- Fixing typo for event uei.opennms.org/internal/schedOutagesChanged (Issue NMS-15421)
- Event Datetime element parsing changed between M2018 and M2021 (Issue NMS-15471)
- Backshift graph's Data tab shows incorrect / phantom data when using STACK (Issue NMS-15495)
- install script checks for equality of myuser and RUNAS before sourcing opennms.conf (Issue NMS-15610)
- send-events-to-elasticsearch karaf command passes username/password in reverse (Issue NMS-15638)

- backport spring-security updates from NMS-15506 to Meridian 2020 (Issue NMS-15662)
- Doc: File name syslog-grok-patterns.txt is wrong (Issue NMS-15684)
- Stop packaging activemq-web-console.war (Issue NMS-15686)

Task

• Multiple CVEs for Axis 1.4 (Issue NMS-15061)

Enhancement

- Bring back URL deep-linking (Issue NMS-15414)
- backport event search fixes (NMS-12517 and NMS-14918) to foundation-2020 (Issue NMS-15679)

Release Meridian-2020.1.35

Release 2020.1.35 contains three security vulnerability fixes, a handful of other bug fixes, and one small enhancement to the startup scripts.

The codename for Meridian 2020.1.35 is *Hoodoo*.

Bug

- POW Arithmetic Operator Does not work with Backshift Graphing Engine (Issue NMS-14779)
- Cacheable HTTPS Responses Cache Control Directive Missing or Misconfigured (Issue NMS-14936)
- Plaintext Password Present in the Web logs (Issue NMS-15305)
- Syslog Northbounder maxMessageSize config option is not used (Issue NMS-15606)
- Jetty CVE-2023-26048/CVE-2023-26049 (Issue NMS-15612)
- update to latest groovy 2.x (Issue NMS-15633)
- \$OPENNMS_HOME/etc/THIRD-PARTY.txt has gone missing with Horizon 31.0.6 and onwards (Issue NMS-15636)

Enhancement

• Enable AmbientCapabilities=CAP_NET_RAW CAP_NET_BIND_SERVICE in shipped opennms.service systemd file (Issue NMS-15596)

Release Meridian-2020.1.34

Release 2020.1.34 contains a bunch of bug fixes, along with a fix for a security vulnerability.

The codename for Meridian 2020.1.34 is *Spit*.

Bug

• Scriptd consumes CPU even when it does nothing (Issue NMS-13216)

- dependabot: upgrade Apache POI to at least 4.1.1 (CVE-2019-12415) (Issue NMS-14589)
- POW Arithmetic Operator Does not work with Backshift Graphing Engine (Issue NMS-14779)
- Multiple CVEs for cxf 3.2.8 (Issue NMS-15065)
- Concurrent requests to rrd summary endpoint fails (Issue NMS-15086)
- Statistics Reports → Export Excel fails with exception (Issue NMS-15148)
- Cross-Site Scripting (XSS) Stored on User List (Issue NMS-15306)
- Missing XML Validation in Apache Xerces2 (Issue NMS-15373)
- Adding or editing a schedule outage doesn't reload the configuration for Threshd (Issue NMS-15420)
- Event Datetime element parsing changed between M2018 and M2021 (Issue NMS-15471)
- upgrade Xalan to 2.7.3 (CVE-2022-34169) (Issue NMS-15578)

Task

• Vulnerable c3p0 0.9.1.1 packaged in Meridian 2021 (Issue NMS-15072)

Enhancement

• re-enable license maven plugin as a separate job (Issue NMS-15572)

Release Meridian-2020.1.33

Release 2020.1.33 is a bugfix release that also upgrades one library dependency.

The codename for Meridian 2020.1.33 is *Tide pool*.

Story

• Upgrade ActiveMQ to 5.15 (Issue NMS-12089)

Bug

- The Info ReST endpoint is not showing the services status (Issue NMS-13437)
- Form Can Be Manipulated with Cross-Site Request Forgery (CSRF) (Issue NMS-14865)
- smoke test failure: Expected to see "opennms" but got "meridian" (Issue NMS-15468)

Task

• Document the breaking changes done as part of Limit script file locations for GpDetector and ScriptPolicy (Issue NMS-15288)

Enhancement

• PersistRegexSelectorStrategy is not where the docs say it should be (Issue NMS-15461)

Release 2020.1.32 introduces **two breaking changes** (see below). It also fixes several security vulnerabilities and one bug in the BSM daemon.

The codename for Meridian 2020.1.32 is Gulf.

Breaking changes

- The GpDetector and ScriptPolicy now require that their scripts be located beneath \$OPENNMS_HOME and beneath \$OPENNMS_HOME/etc/script-policies, respectively. If you are using either of these classes in your foreign-source definitions, please address this requirement before upgrading to this release.
- Support for JNLP (aka Java Web Start) for the remote poller has been removed. If you are still using the remote poller, which is long deprecated and unsupported, and has been removed entirely from Meridian 2022 and later releases, you may be able to move from JNLP to the command-line implementation.

Shout-outs and errata

- Thanks to researcher Baharuddin Zulkifli of NetbyteSEC for reporting several cross-site scripting vulnerabilities.
- Thanks to researcher Stefan Schiller of SonarSource for reporting a pair of authenticated command-injection vulnerabilities.
- The release notes for Meridian-2020.1.31 incorrectly stated that NMS-15124 was fixed in that release. In actual fact, the fix is in this release (Meridian-2020.1.32).

Bug

- Multiple stored and reflected XSS in webapp (Issue NMS-14854)
- Authenticated Command Injection in GpDetector and ScriptPolicy (Issue NMS-14878)
- reloading BSM daemon causes the state of serviceProblem alarm to be reset (Issue NMS-15124)
- Plaintext Password Present in the Web logs (Issue NMS-15305)

Task

- JAVA_KEYALIAS Variable needs to be updated (Issue NMS-15239)
- JAVA_KEYSTORE Variable needs to be updated (Issue NMS-15240)
- JAVA_STOREPASS Variable needs to be updated (Issue NMS-15241)
- Document the breaking changes done as part of Limit script file locations for GpDetector and ScriptPolicy (Issue NMS-15288)

Enhancement

• remove remote-poller-jnlp (Issue NMS-15343)

Release 2020.1.31 fixes one bug and makes one cosmetic change to the web UI.

The codename for Meridian 2020.1.31 is Seamount.

Bug

• reloading BSM daemon causes the state of serviceProblem alarm to be reset (Issue NMS-15124)

Task

• Change OpenNMS Copyright from 2022 to 2023 (Issue NMS-15211)

Release Meridian-2020.1.30

Release 2020.1.30 fixes a handful of bugs and security vulnerabilities.

The codename for Meridian 2020.1.30 is Beach

Unexpected Behavior

• RPM packages fail to install when FIPS Enabled (Issue NMS-14628)

Bug

- Form Autocomplete Attribute Not Set (Issue NMS-14934)
- Cookie Attribute SameSite Attribute Missing or Misconfigured (Issue NMS-14937)
- opennms rpm could get wrong jetty files (Issue NMS-15043)

Release Meridian-2020.1.29

Release 2020.1.29 contains a solitary bug fix.

The codename for Meridian 2020.1.29 is *Rift valley*.

Bug

• Unexpected interfaceDown event/alarm during a scheduled outage (Issue NMS-14695)

Release Meridian-2020.1.28

Release 2020.1.28 contains a couple of bug fixes and security fixes.

The codename for Meridian 2020.1.28 is *Channel*.

- Duplicate V3 trap security names causing spurious errors on non V3 traps (Issue NMS-14718)
- Kafka Producer NPE causes collection failure overall (Issue NMS-14740)

Story

- Reflected XSS (PB-2022, Aug 2022) (Issue NMS-14713)
- Browser-Specific XSS (PB-2022, Aug 2022) (Issue NMS-14714)
- Form Can Be Manipulated with Cross-Site Request Forgery (CSRF) (Issue NMS-14716)
- Session Cookie (Authentication Related) Does Not Contain The "HTTPOnly" Attribute (Issue NMS-14717)

Release Meridian-2020.1.27

Release 2020.1.27 contains a couple of bug fixes.

The codename for Meridian 2020.1.27 is *Cape*.

Bug

- change or remove how Docker SSH keys are generated (Issue NMS-14643)
- Graph page doesn't escape <> in resource labels (Issue NMS-14657)

Story

- PassiveStatusd (Issue NMS-8567)
- Provisiond (Issue NMS-8569)
- Please update the copyright year on the docs page! (Issue NMS-13911)
- Upgrade dom4j to latest version (Issue NMS-14696)

Task

• Change OIA name to OpenNMS Plugin API (Issue NMS-14475)

Enhancement

• Migrate Notification wiki pages into docs (Issue NMS-13584)

Release Meridian-2020.1.26

Release 2020.1.26 contains a few small bug fixes.

The codename for Meridian 2020.1.26 is *Fjard*.

- show-event-config displays unexpected content after adding new event definitions (Issue NMS-12863)
- Clearing an alarm brings alarm not found message (Issue NMS-12981)
- JVM MemoryPool data collection not working (Issue NMS-14041)
- WebMonitor does not track the response time (Issue NMS-14535)

• Spring Framework CVE-2022-22950 Remediation (Issue NMS-14568)

Enhancement

• simplify assembly tarballs (Issue NMS-14572)

Release Meridian-2020.1.25

Release 2020.1.25 contains a few small bug fixes and few enhancements.

The codename for Meridian 2020.1.25 is Cove.

Bug

- Correct Grammar in Notices Box (Issue NMS-12355)
- Link in ERROR log doesn't exist (Issue NMS-13956)
- RRD file parsing failed with newts-repository-converter (Issue NMS-14079)
- Heatmap drill down does not show any alarms/outages (Issue NMS-14243)
- Notification with Destination Path and Group, Interval Delay doesnt show (Issue NMS-14403)

Enhancement

- event nodeCategoryMembershipChanged should be more verbose (Issue NMS-10634)
- Add support for pre-authorization via HTTP header (to be used with pre-authentication) (Issue NMS-14059)
- upgrade JNA to 5 (Issue NMS-14417)

Release Meridian-2020.1.24

Release 2020.1.24 contains a few small bug fixes.

The codename for Meridian 2020.1.24 is *Coral Reef*.

Bug

- [Web] WebServer Fingerprinting (Issue NMS-13987)
- Telemetryd does not shut down gracefully (Issue NMS-14003)
- Exception when searching assets (Issue NMS-14240)
- Remove "Commercial Support" ticket lookup from web ui support section (Issue NMS-14280)
- Circle ci caching OIA issue (Issue NMS-14291)
- Kafka-Producer Alarm Resync Failing Post Entire Kafka Cluster Outage (Issue NMS-14321)

Release Meridian-2020.1.23

Release 2020.1.23 contains a number of security dependency updates.



While the dependency changes *should* not affect how the OpenNMS runtime works, this release contains a larger than usual number of changes to "plumbing" to facilitate these dependency updates. It is strongly recommended that you do more than the usual amount of testing before deploying this update to a production environment.

The codename for Meridian 2020.1.23 is Submarine Canyon.

Bug

- CVE-2022-22965: Spring RCE in Data Bindings (Issue NMS-14134)
- Upgrade groovy-all dependency (Issue NMS-14208)
- make sure license-maven-plugin is re-enabled in foundation and release branches (Issue NMS-14217)
- Upgrade jackson-mapper-asl dependency (Issue NMS-14252)

Release Meridian-2020.1.22

Release 2020.1.22 contains a few small fixes and enhancements.

The codename for Meridian 2020.1.22 is *Estuary*.

Bug

- Resolve SonarCloud High priority Security Hotspots (Issue NMS-14002)
- Scriptd helpers ignore community setting (Issue NMS-14045)
- Wrong wiki URL in debian installer (Issue NMS-14053)

Enhancement

- Switch to using a java e-mail library instead of system mail (Issue NMS-14015)
- Misspelling in SystemExecuteMonitor error text (Issue NMS-14091)
- relicense rancid-api to LGPL, change dependency to match (Issue NMS-14093)

Release Meridian-2020.1.21

Release 2020.1.21 contains a fix for a regression in graph viewing.

The codename for Meridian 2020.1.21 is *Cliff*.

Bug

• OpenNMS points to the wrong URL when trying to generate graphs (Issue NMS-14057)

Release Meridian-2020.1.20

Release 2020.1.20 contains mostly bug fixes, including some small security-related changes.

The codename for Meridian 2020.1.20 is *Headland*.

Bug

- opennms user credentials wrongly exposed (Issue NMS-12146)
- Support → System Report exposes credentials in plain text (Issue NMS-13831)
- Cross site scripting Reflected (Issue NMS-13835)
- Password field with autocomplete enabled (Issue NMS-13847)
- Web UI copyright year needs updating (Issue NMS-14037)

Enhancement

• Releases should document third party libraries and their licenses (Issue NMS-14004)

Release Meridian-2020.1.19

Release 2020.1.19 is a small release with a number of bug fixes, including a few security fixes related to Grafana PDF reports and Protobuf.

Thanks to Sahil Tikoo from Etisalat for reporting the Grafana endpoint issue.

A note about security issues: we have traditionally created CVEs in a pretty ad-hoc manner. We are in the process of formalizing how we'll be doing so going into the future.

The codename for Meridian 2020.1.19 is Mid-Ocean Ridge.

Bug

- config-tester doesn't find malformed resourceTypes (Issue NMS-13723)
- Event configuration UI fails to persist logmsg dest changes (Issue NMS-13729)
- Outdated javascript library (Issue NMS-13848)
- grafana endpoint can be used to port-scan internal resources (Issue NMS-13917)
- Minion fails to marshall requisition with JAXB error: Class [org.opennms.netmgt.model.PrimaryTypeAdapter] not found (Issue NMS-13927)
- Unsynchronized access to service factories in TelemetryServiceRegistryImpl (Issue NMS-13961)

Enhancement

• Upgrade protobuf-java version (Issue NMS-13889)

Release Meridian-2020.1.18

Release 2020.1.18 is a small release with another upgrade for Log4j2 as well as an NPE fix in the topology UI.

It is not believed that we are vulnerable to the Log4j issues fixed in these newer releases, but are updating anyway just to be sure.

The codename for 2020.1.18 is Cuspate Foreland.

Bug

- Customer is not able to view Topology (Issue NMS-13851)
- CVE-2021-45105: Update to Log4j 2.17.0 (Issue NMS-13868)
- upgrade to log4j2 2.17.1 and pax-logging 1.11.13/2.0.14 (Issue NMS-13878)

Release Meridian-2020.1.17

Release 2020.1.17 is a re-release of 2020.1.16 with additional fixes relating to Log4j2 vulnerabilities.

The codename for 2020.1.17 is *Blowhole*.

Bug

• CVE-2021-45046: incomplete Log4j2 vulnerability mitigation (Issue NMS-13858)

Release Meridian-2020.1.16

Release 2020.1.16 is an out-of-band release with a fix for the Log4j2 security issue.

The codename for 2020.1.16 is *Stack*.

Bug

• Log4j2 0-day: CVE-2021-44228 (Issue NMS-13850)

Release Meridian-2020.1.15

Release 2020.1.15 contains a fix for a Jetty CVE, plus an update to fix a bug in user auth changes, and an enhancement to SNMPv3 user authentication.

The codename for 2020.1.15 is *Lagoon*.

Bug

- Authorization changes not taking immediate effect (Issue NMS-13761)
- CVE-2021-28164: access to WEB-INF (Issue NMS-13832)

Enhancement

• Support multiple auth params for same SNMPV3 username (Issue NMS-13490)

Release Meridian-2020.1.14

Release 2020.1.14 contains a few small features updates and a number of bug fixes, including an XSS security issue in the notifications wizard.

The codename for 2020.1.14 is Tessellated Pavement.

Bug

- The node and interface counters of the Evaluation Layer are incorrect (Issue NMS-13283)
- EvaluationMetrics.log is contaminated with non-related metrics. (Issue NMS-13284)
- Reflected XSS in webapp notice wizard (Issue NMS-13496)
- macOS Monterey: older OpenNMS branches do not start anymore (Issue NMS-13703)
- related events box in alarm detail shows all events when alarm has no node / interface / service / ifindex (Issue NMS-13705)

Enhancement

- Incorporate node related information to events and alarms topic in opennms-kafka-producer feature (Issue NMS-12778)
- Support multiple auth params for same SNMPV3 username (Issue NMS-13490)
- Show Link State when viewing links on the Enlinkd topology maps (Issue NMS-13619)

Release Meridian-2020.1.13

Release 2020.1.13 contains a couple of small bug fixes.

The codename for 2020.1.13 is Strait.

Bug

- Signed Minion container bleeding image shows revision as meridian-foundation-2021.1.4-1-487 (Issue NMS-13587)
- missing fields in search autocomplete (Issue NMS-13518)

Release Meridian-2020.1.12

Release 2020.1.12 contains a few small bug fixes, including a CVE dependency update.

The codename for 2020.1.12 is Atoll.

Bug

- Syslog messages missing nodelabel, location, and interface (Issue NMS-13485)
- Bump Apache Ant version to 1.10.11 (CVE-2021-36373, CVE-2021-36374) (Issue NMS-13509)

Release Meridian-2020.1.11

Release 2020.1.11 contains an update for a Jetty CVE plus a couple of XSS fixes and a Minion OOM bug.

The codename for 2020.1.11 is *Ayre*.

Bug

- OutOfMemory issue on Minion (corner case related to Offheap) (Issue NMS-13405)
- Jetty 9.4.38 security issues CVE-2021-28164, CVE-2021-34428 and CVE-2021-28169 (Issue NMS-13449)
- Reflected XSS in webapp notice wizard (Issue NMS-13496)
- Reflected XSS in scheduled outage editor (Issue NMS-13498)

Release Meridian-2020.1.10

Release 2020.1.10 contains a few dependency security updates and an enhancement to the Kafka producer.

The codename for 2020.1.10 is *Calangue*.

Enhancement

• Incorporate node related information to events and alarms topic in opennms-kafka-producer feature (Issue NMS-12778)

Bug

- CVE-2020-13956: Update commons-httpclient to 4.5.13 (Issue NMS-13360)
- CVE-2017-5929: bump logback-classic version to latest (Issue NMS-13361)

Release Meridian-2020.1.9

Release 2020.1.9 contains a few bug fixes and enhancements.

The codename for 2020.1.9 is Wave-Cut Platform.

Bug

- IP interface link in Response Time graph page is broken (Issue NMS-13158)
- Got Access Denied when viewing On-Call Role schedule (Issue NMS-13287)
- Validate query parameters in snmpInterfaces.jsp (Issue NMS-13308)
- Validate name parameter in DestinationWizardServlet (Issue NMS-13309)

Enhancement

- Incorrect reference to org.opennms.netmgt.syslog.cfg (Issue NMS-13223)
- Location aware Requisitions from DNS (Issue NMS-13278)

Release Meridian-2020.1.8

Release 2020.1.8 contains a number of security fixes, as well as fixes for a few other bugs.

The codename for 2020.1.8 is *Isthmus*.

Bug

- Not possible to define notification parameters via "Configure notifications" UI (Issue NMS-8581)
- Race condition on ALEC's config bundle after installation (Issue NMS-12766)
- Reflected XSS reported 2021-03-31 (update summary after disclosure) (Issue NMS-13229)
- vmware integration connection pool not expiring connections (Issue NMS-13234)
- Cleared alarms with closed ticket state not removed when using a hybrid approach (Issue NMS-13237)
- Sidebar navigation on the graph results page is not working (Issue NMS-13259)
- Time zone is handled different on Minion container image based on Ubuntu (Issue NMS-13276)
- Apache Commons IO Security Update: CVE-2021-29425 (Issue NMS-13279)

Release Meridian-2020.1.7

Release 2020.1.7 contains an enhancement to event forwarding performance in the Kafka producer, plus a number of bug fixes including a Jetty DoS CVE.

The codename for 2020.1.7 is *Firth*.

- Change Jetty default settings to eliminate TLS 1.0 and TLS 1.1 support (Issue NMS-10256)
- Wrong UEI is picked when threshold alarms are generated (Issue NMS-13120)
- XSS in notification wizard (Issue NMS-13123)
- Generate Data collection throws error message "There is a group with same name, please pick another one" under MIB browser (Issue NMS-13143)
- 'Links on interface' table was missing for interface under node list (Issue NMS-13145)
- Regular Expression field textbox greyed out for other Events except 'REGEX_FIELD' under Event notifications (Issue NMS-13149)
- Query Regarding saving a filter URL with more than 255 characters in events ILP (Issue NMS-13152)
- Kafka producer uses resource name instead of ifIndex as the instance for InterfaceLevelResource (Issue NMS-13185)
- The behavior of the Ticketing API differs from older versions. (Issue NMS-13189)
- CVE-2020-27223: Jetty DoS vulnerability (Issue NMS-13201)
- Minion: Kafka related WARN log messages (AdminClientConfig The configuration X isn't a known config) (Issue NMS-13208)
- Minion SNMPv3 trap configuration query is done every 60 seconds (Issue NMS-13217)

Enhancement

• Improve Event forwarding performance for Kafka producer (Issue NMS-13211)

Release Meridian-2020.1.6

Release 2020.1.6 contains a number of small bug fixes and enhancements, including some UI cleanups, Newts fixes, and a security update to Apache POI.

The codename for 2020.1.6 is Bight.

Bug

- Timezone and Grafana Dashboard fields not preserved when editing a scheduled report (Issue NMS-13064)
- No option provided to change the number of records per page in Events ILP and Events/Alarms ILP under Topology (Issue NMS-13137)
- The OpenNMS Web User Interface Has Experienced an Error observed when searching for a Event under Event notifications (Issue NMS-13148)
- Node's sub-option 'Availability' exceeds table alignment and overlaps next table of 'Notifications' under Topology section (Issue NMS-13153)
- Newts Cache priming flag is inverted (Issue NMS-13156)
- Dependabot: Upgrade Apache POI to 3.17 (CVE-2017-12626) (Issue NMS-13161)

Enhancement

- add service status to rest /info API (Issue NMS-13135)
- create a table to show related events in the alarm detail view (Issue NMS-13170)

Release Meridian-2020.1.5

Release 2020.1.5 contains a few bugfixes and a log verbosity enhancement.

The codename for 2020.1.5 is Strandflat.

Bug

- Timezone and date range inconsistencies when scheduling database reports associated with Grafana dashboards. (Issue NMS-13070)
- Exception messages during node import (log noise) (Issue NMS-13082)
- SFlow enhancment is not functional (Issue NMS-13093)
- JEXL expression handling updates (Issue NMS-13103)

Enhancement

• Optionally silence file not found warnings for JICMP, JRRD when properties are not set (Issue NMS-13081)

Release 2020.1.4 contains an SNMP poller fix and a small enhancement to package dependencies.

The codename for 2020.1.4 is *Machair*.

Bug

• When using a custom prefix, the Elasticsearch Forwarder for events and situation-feedback creates a wrong template. (Issue NMS-13030)

Enhancement

• Depend on haveged (and supply it in our repo) (Issue NMS-8959)

The codename for 2020.1.4 is *Ria*.

Release Meridian-2020.1.3

Release 2020.1.3 is the fourth release in the Meridian 2020 series.

It contains a critical fix to a reporting API bug that could cause OpenNMS to fail to start.

BREAKING: If you created reports in 2020.1.2, they will need to be recreated in 2020.1.3.

The codename for 2020.1.3 is *Fjord*.

Bug

• report timezone changes break reading pre-existing reports from Quartz (Issue NMS-13037)

Release Meridian-2020.1.2

Release 2020.1.2 is the third release in the Meridian 2020 series.

It contains a number of bug fixes including a fix for a critical Jetty CVE.

The codename for 2020.1.2 is *Skerry*.

- Timezone inconsistency when generating PDF reports from Grafana dashboards (Issue NMS-12930)
- RRD files for SNMP data are not created until a Service Restart (Issue NMS-12974)
- Unable to enable Jaeger tracing in Sentinel (Issue NMS-12998)
- Update typo in BMP docs (Issue NMS-13002)
- CVE-2020-27216: Jetty webserver vulnerability (Issue NMS-13009)
- Null pointer exception whe minion receives traps (Issue NMS-13015)

Release 2020.1.1 is the second release in the Meridian 2020 series.

It contains a number of bug fixes and enhancements.

The codename for 2020.1.1 is *Tombolo*.

Bug

- Unable to poll Vcenter CIM Calling something in OpenJDK11 that has been removed. (Issue NMS-12919)
- service starts / restarts work but spit out an error if configured to wait for startup (Issue NMS-12966)
- Alarm (v1 & v2) ReST Service PUT Can't PUT Multiple Things (Issue NMS-12979)

Enhancement

- Add custom string attributes based on indirect and complex SNMP Indices (Issue NMS-8484)
- Identify message broker strategies in web "about" page (Issue NMS-12971)

Release Meridian-2020.1.0

Release 2020.1.0 is the first release in the Meridian 2020 series, based on Horizon 26.1.x.

The codename for 2020.1.0 is *Archipelago*.

Bug

- HTTP Detector does not accept a response without a reason as valid (Issue NMS-10351)
- Slack-compatible notification strategies expect "url" for switch name, should be "-url" (Issue NMS-10552)
- opennms.pid missing when started by Systemd (Issue NMS-12769)
- Interfaces incorrectly marked as having flows resulting in no data via Helm (Issue NMS-12814)
- Response Time Summary database report missing latency caluculation (Issue NMS-12837)
- SslContextFactory needs to be changed to SslContextFactory.Server in jetty.xml (Issue NMS-12847)
- Wrong startup command for Minion running with Docker and health check issues (Issue NMS-12872)
- Install guide RHEL instructions are invalid on RHEL 7 (Issue NMS-12891)

Enhancement

- Update collectors chapter (Issue NMS-12682)
- Include XML schema for wsman-datacollection-config.xml in assemblies (Issue NMS-12813)

- Fix CollectdTest mock'ing errors (Issue NMS-12828)
- Fix JMX datacollection config generator test (Issue NMS-12829)
- Remove unused import in BsonUtils (Issue NMS-12830)
- Update mockito/powermock dependencies (Issue NMS-12831)
- Update Minion installation documentation (Issue NMS-12917)
- sort custom reports (Issue NMS-12931)
- Update Copyright notice for 2020 (Issue NMS-12933)