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# MySQL Enterprise Monitor 4.0 Release Notes

## Abstract

This document lists the changes to the MySQL Enterprise Monitor 4.0 product, beginning with the most recent release. Each release section covers added or changed functionality, bug fixes, and known issues, if applicable. For information about changes in a different MySQL Enterprise Monitor series, see the release notes for that series.

For additional MySQL Enterprise Monitor 4.0 documentation, see the [MySQL Enterprise Monitor 4.0.8 Manual](#).

For legal information, see the [Legal Notices](#).

For help with using MySQL, please visit either the [MySQL Forums](#) or [MySQL Mailing Lists](#), where you can discuss your issues with other MySQL users.

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## Preface and Legal Notices

This document lists the changes to the MySQL Enterprise Monitor 4.0 product, beginning with the most recent release.

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## Changes in MySQL Enterprise Monitor 4.0.8 (2019-01-24)

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

## Functionality Added or Changed

- The bundled JRE was updated to 1.8.0\_202 for both the Agent and Service Manager.
- The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.25.
- As of this release, [performance-schema-consumer-events-statements-history-long](#) is enabled on the bundled repository. If you are using an external repository, you must enable this consumer by adding the following to your MySQL configuration file:

```
performance_schema_consumer_events_statements_history_long=ON
```

- The OpenSSL libraries used by the MySQL Enterprise Monitor installers and have been upgraded to 1.0.2q.

## Bugs Fixed

- The documentation describing the Active Directory configuration incorrectly stated that a port was required in addition to the hostname. The port is 389 and cannot be altered. (Bug #29173152)
- The documentation describing the logic of replica promotion to source was incorrect. (Bug #28905972)
- It was not possible to remove the **CPU Utilization - Mysql Server - CPU** graph from the **Overview** if only a single instance was selected. (Bug #28794385)
- The graph range selection controls (Cancel selection and Query Analysis) were visible through any menu or dialog which overlaid the selection. (Bug #17555151)

## Changes in MySQL Enterprise Monitor 4.0.7 (2018-10-16)

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

## Functionality Added or Changed

- The Tomcat server, bundled with the MySQL Enterprise Service Manager, has been upgraded to 8.5.34.

## Bugs Fixed

- Automatic page refresh did not pause if an asset was selected.
- Under certain circumstances, Out Of Memory errors caused the MySQL Enterprise Monitor Agent to restart. In the previous release, the default agent heap size, defined by the `MEM_AGENT_JAVA_OPTS` parameter in the `setenv.sh/bat` file, has been increased to 128MB.



### Important

In the previous release, this issue was corrected for new installations. As of this release, this issue is also corrected for upgrades.

If you changed `MEM_AGENT_JAVA_OPTS` to a value greater than 128MB, the value is not changed by the upgrade. If you changed `MEM_AGENT_JAVA_OPTS` to a value lower than 128MB, the upgrade process updates the value to 128MB.

## Changes in MySQL Enterprise Monitor 4.0.6 (2018-09-13)

- [Security Notes](#)
- [Bugs Fixed](#)

### Security Notes

- MySQL Enterprise Service Manager has been updated to use Apache Struts 2.3.35, which has been publicly reported as not vulnerable to [CVE-2018-11776](#). (Bug #28577924)

### Bugs Fixed

- Under certain circumstances, Out Of Memory errors caused the MySQL Enterprise Monitor Agent to restart. As of this release, the default agent heap size, defined by the `MEM_AGENT_JAVA_OPTS` parameter in the `setenv.sh/bat` file, has been increased to 128MB.



#### Note

The new default is set for new installations only. If you are upgrading from a previous version, you must edit the `setenv.sh/bat` manually.

If you have already customized this value, ensure the custom value is at least equal to 128MB.

## Changes in MySQL Enterprise Monitor 4.0.5 (2018-07-24)

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

### Functionality Added or Changed

- The usability of the Context and Target selection fields has been improved. As of this release, you can select a group or asset from the list or by searching for the name of a group or asset.

The view is no longer refreshed after making a selection in the **Global Summaries** field. As of this release, the filter is not applied until you select an asset from the **All Targets** field. (Bug #27019694)

- The installers were updated with improved Japanese and Chinese translations.

Also, to better support Japanese installations, the `configuration_report` files, generated by the installer, now use the `utf8` character set.

- The OpenSSL libraries used by the MySQL Enterprise Monitor installers and MySQL Enterprise Monitor Aggregator have been upgraded to 1.0.2o.
- The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.23.
- The bundled JRE was updated to 1.8.0\_181 for both the Agent and Service Manager.

### Bugs Fixed

- Several Advisor tooltips contained broken links and links pointing to outdated content. (Bug #28171028)

- Changes to the **Query Analysis Reporting** advisor's configuration were ignored by the built-in agent of the MySQL Enterprise Service Manager. The changes were created correctly, but the built-in agent continued using the default schedule and configuration.



### Important

This issue affected the built-in agent of the MySQL Enterprise Service Manager only. It did not affect the standalone MySQL Enterprise Monitor Agent.

For information on this distinction, see [MySQL Enterprise Monitor Component Overview](#).

(Bug #27986851)

- It was not possible to add or remove sparkline graphs from the **Global Overview**. Also, an error was logged if the **Reset to Default** button was clicked. (Bug #27733748)
- If a range was selected on the graph for a single instance, and the Query Analyzer was opened from the selected range, the single instance selected was replaced by **All** in the asset selector when the page reloaded. (Bug #27268314)
- The plus character (+) was added to search criteria on the Query Analyzer filter's **Value** field. These characters were added if a search was performed, the **Details** page was opened for one of the search results, then the Query Analyzer page was opened again.

For example, searching for `INSERT INTO `mem__quan`` resulted in the string `INSERT+INTO +`mem__quan``.

- The agent upgrade option, `--ignore-old-proxy-aggr` was present in the MySQL Enterprise Monitor Agent and documentation. The upgrade from MySQL Enterprise Agent Proxy Service 2.3 is no longer supported.
- If the configuration of the **Query Analysis Reporting** advisor was changed, for example by disabling, then re-enabling, the Example Query or Explain, the **Auto-Explain Threshold** value was set to zero instead of to the default value of 100 milliseconds. This resulted in an error and no new queries were displayed on the **Query Analyzer**.
- The **Example Statements** configuration message, displayed if EXAMPLE/EXPLAIN query was not enabled, incorrectly referenced `performance_schema_events_statements_history_size` instead of `performance_schema_events_statements_history_long_size`.
- If the data retention policy was set to zero, or a negative value, and the MySQL Enterprise Service Manager was upgraded, the upgraded MySQL Enterprise Service Manager failed to start.

## Changes in MySQL Enterprise Monitor 4.0.4 (2018-04-26)



### Important

It is not possible to monitor MySQL 8 with this version of MySQL Enterprise Monitor, nor is it possible to configure this version of MySQL Enterprise Monitor to use MySQL 8 as its repository. To monitor MySQL 8, you must use MySQL Enterprise Monitor 8.0.

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

## Functionality Added or Changed

- The performance of the data aggregation process is improved in this release. (Bug #26950542)
- The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.22.
- The bundled JRE was updated to 1.8.0\_172 for both the Agent and Service Manager.
- The Oracle JavaScript Extension Toolkit (JET) is upgraded to version 4.2.0 in this release.

## Bugs Fixed

- The MySQL Enterprise Service Manager always used the default data purge values, regardless of what values were specified. (Bug #27869486)
- MySQL Enterprise Monitor Agent parsed all `name=value` pairs, even if they were inside comments, or outside legal config sections in a Cluster `config.ini`.  
As of this release, only configuration values in legally defined sections are parsed. (Bug #27844552)
- The Query Analyzer's **Configure Query Analyzer** link did not link to the Query Analyzer advisors. (Bug #27844552)
- The documentation did not clearly state that the GUI-based advisors could not be copied as the basis for custom advisors. Only expression-based advisors can be copied in this manner. (Bug #27731494)
- The **Time Span** and **Graph From:** labels did not display multibyte characters correctly. The character codes were displayed instead of the characters themselves. (Bug #27695440)
- NDB Clusters with multiple MySQL nodes were listed as a single MySQL instance in the **All Targets** drop-down menu. (Bug #27556453)
- The **Zoom** links on the **Query Analyzer** page did not alter the graph time range. (Bug #27410942)
- The columns of the **Current Emergency & Critical Events** list, on the **Overview** page, contained chevrons, indicating it was possible to sort the events. It is not possible to sort the events of this list, the emergency events are always listed first, and the list is sorted by **Current** and **Time**. (Bug #27011755, Bug #27720503)
- The **Overview** graphs contained no scale information. As of this release, the graph tooltips now contain timestamps.
- The **Last Seen** column of the **Unreachable Agents** did not sort by date.
- On Windows platforms, the agent service description contained an incorrect version number.
- The emailed links were incorrect for events generated by the **SQL Statement Generates Warnings or Errors** and **Average Statement Execution Time Advisor** advisors.
- It was not possible to edit any notification groups other than the first 10 displayed. The remaining groups were displayed as inactive.
- The link to the **Settings** page, in the **Important Product-Related Announcements** section of the **What's New** page, did not link to the **Settings** page.

## Changes in MySQL Enterprise Monitor 4.0.3 (2018-01-29)

- [Functionality Added or Changed](#)

- [Bugs Fixed](#)

## Functionality Added or Changed

- As of this release, to improve the performance of the metric, **Database File I/O**, only the top 100 consumers are returned in the report. (Bug #27300501)
- It is now possible to specify the notification level for queries with warnings, or errors, on the **SQL Statement Generates Warnings or Errors** advisor. For more information, see [SQL Statement Generates Warnings or Errors](#). (Bug #27280965)
- The OpenSSL libraries used by the MySQL Enterprise Monitor installers and MySQL Enterprise Monitor Aggregator have been upgraded to 1.0.2n.
- The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.21.
- The Oracle JavaScript Extension Toolkit (JET) is upgraded to version 4.0.0 in this release.
- The bundled JRE was updated to 1.8.0\_162 for both the Agent and Service Manager.
- It is now possible to zoom in on selected ranges in timeseries graphs. Select a range on a graph and click the magnifying glass icon.
- The following NDB Cluster throughput graphs are added in this release:
  - **NDB Cluster Throughput Overview**
  - **NDB Cluster Throughput - All Nodes**
  - **NDB Cluster Throughput**
- As of this release, and as announced on the [EoL announcement page](#), OS X 10.11 is no longer a supported platform for MySQL products.

## Bugs Fixed

- The **Server Has Anonymous Accounts** advisor raised false-positive events for users with proxy rights, such as those provided by authentication plugins. For more information on proxy users, see [Proxy Users](#).

As of this release, the advisor is renamed **Server Has Anonymous Accounts Not Being Used As Proxies** and can now differentiate between anonymous accounts and proxy users. (Bug #27179986)

- The metric, **User Statistics**, did not return any data if the monitored server was MySQL Server 5.6. (Bug #27178697)
- It was not possible to filter by MySQL version on the **MySQL Instances** page if NDB Cluster nodes were monitored. An error was displayed. (Bug #26882376)
- Several elements of the drop-down menus on the **Replication** view and **Group Replication** advisors were not named correctly.
- Several elements of the drop-down menus on the **Query Analyzer** were not displayed correctly.

## Changes in MySQL Enterprise Monitor 4.0.2 (2017-12-05)

- [Functionality Added or Changed](#)

- [Bugs Fixed](#)

## Functionality Added or Changed

- As of this release, on Solaris platforms, the installer and upgrade installer check for the presence of the Oracle Developer Studio 12.5 Runtime libraries. If these libraries are not installed, the installation stops and displays an error.



### Note

The installer also checks for auto-mounted installations in `/opt/developerstudio12.5`.

Oracle Developer Studio 12.5 Runtime libraries must be installed before running the MySQL Enterprise Monitor installers on Solaris.

- The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.20.
- The OpenSSL libraries used by the MySQL Enterprise Monitor installers and MySQL Enterprise Monitor Aggregator have been upgraded to 1.0.2m.

## Bugs Fixed

- The `service_manager` privilege descriptions lacked examples. For more information, see [MySQL Enterprise Monitor Repository](#). (Bug #27130180)
- The documentation incorrectly stated that a Service Manager user required privileges on the `mysql.inventory` table. The `mysql.inventory` table is no longer created. (Bug #27130103)
- It was not possible to edit the sparkline selection on the **Overview**. The drop-down list was empty. (Bug #27126595)
- Under certain circumstances, some group replication topologies, such as InnoDB clusters, did not load in the **Topology**. (Bug #27126443)
- Some selections were not properly displayed in the **Column** drop-down menus on the Query Analyzer's Advanced filter. (Bug #27110602)
- The bundled MySQL server did not include all the MySQL Enterprise Edition plugins, such as Audit and TDE, for Microsoft Windows platforms. The plugins were correctly delivered for Linux, Mac OS, and Solaris. (Bug #27110538)
- Long confirmation messages on the What's New page were not correctly formatted and overflowed the boundaries of the tooltip popup. (Bug #26941371)
- The **Advisors** drop-down list on the **Create Event Handler** dialog was not displayed properly. It was not possible to scroll the list. (Bug #26870551)
- It was not possible to delete or edit a notification group if the subject contained braces, { or }. An error was displayed.

As of this release, it is possible to edit, and correct, notification group subjects which contain unsupported characters. Also, an error is displayed on saving if the notification group's subject contains an unsupported character. (Bug #25535520)

- Data purge was not completed if the MySQL Enterprise Service Manager was restarted while the purge was running.



- Sparkline graphs were not correctly displayed for cluster group selections on the **Replication** view.
- **Current Emergency & Critical Events** displayed no data if **All entries** was selected. It was necessary to refresh the page manually.
- The **Current Emergency & Critical Events** list was filtered by the current, active personal filter.

## Changes in MySQL Enterprise Monitor 4.0.1 (2017-10-26)

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

### Functionality Added or Changed

- It is now possible to specify time intervals for the **Overview** graphs. To set an interval, open the **Sparkline Options** and select the required interval. The interval is saved for the selected targets. (Bug #26927079)
- The performance of the Advisors page was improved. (Bug #26274454)
- The Tomcat server, bundled with the MySQL Enterprise Service Manager, has been upgraded to 8.5.23.
- The bundled JRE was updated to 1.8.0\_151 for both the Agent and Service Manager.

### Bugs Fixed

- The advice page for the **Prepared Statements Not Being Used Effectively** advisor incorrectly referred to the variables `Com_stmt_prepare` and `Com_stmt_execute`. The correct variables are `Com_prepare_sql` and `Com_execute_sql`. (Bug #26949933)
- Timeseries graphs displayed old data, such as filesystems and network interfaces which were removed or no longer exist.  
  
As of this release, only recently reported, active assets are displayed in the timeseries graphs. (Bug #26942873)
- The Target selector menu did not update immediately if a MySQL instance was deleted from MySQL Enterprise Monitor. Although it was no longer monitored, the MySQL instance remained in the menu for some time. (Bug #26915505)
- It was not possible to refresh a replication topology using the **Rediscover Replication Topologies** button. An error was displayed. (Bug #26900106)
- The **Last Check** status field on the **Configure What's New** dialog was not updated correctly. (Bug #26899987)
- The link between two inactive nodes on the Replication topology view remained green, indicating an active connection. As of this release, links between inactive nodes are gray, indicating an unknown state. The same is now true for lines between active and inactive nodes. (Bug #26878020)
- **Topology** did not correctly display nodes which were not running. They were displayed in Green, instead of Yellow, indicating that the replication thread was not running. (Bug #26871473)
- A fatal error occurred when upgrading a MySQL Enterprise Service Manager installation which used an external repository instead of the bundled repository.

**Note**

The existing installation was unchanged.

(Bug #26870405)

- Under certain circumstances, if you were upgrading to the previous version, it was necessary to edit `server.xml` and add `maxHttpHeaderSize="65536"` to each of the default connectors.

As of this release, it is no longer necessary to manually edit `server.xml`, the upgrade installer checks and corrects the values automatically if they are set to a value less than 64K. If `maxHttpHeaderSize` is set to 64K or higher, the upgrader installer makes no changes. (Bug #26828438)

References: See also: Bug #26391094.

- The default settings for purging aggregate data were incorrect. As of this release, the default values are set as follows:
  - **Remove Hourly Aggregated Metric Data Older Than:** 1 year
  - **Remove Daily Aggregated Metric Data Older Than:** 10 years
- MySQL Enterprise Monitor Agents were not displayed if the Global Summaries selection was either InnoDB Cluster or NDB Cluster.
- The asset selector on the Groups page has been updated. For more information, see [Creating Groups](#).
- Under certain circumstances, while calculating the status of group replication partitions, a Null Pointer Exception was logged.

The error was transient and usually resolved in the next collection.

- Auto-refresh refreshed the entire page for the **Replication** view, rebuilding all elements, rather than the contents of the view.

As of this release, only the contents of the **Replication** view are refreshed.

- **Backup** was not displayed on the Navigation bar for InnoDB Cluster selections, but was displayed for NDB Cluster selection.

As of this release, **Backup** is displayed for InnoDB Cluster selections and not for NDB Cluster selections.

- Under certain circumstances, the graphs in the Support Diagnostics archive could not be loaded in some browsers.
- The graphs tab of the Query Analyzer's Query dialog was larger than the dialog which contained it.
- The **Group Name** icon was not displayed correctly on the **Email Notification Group** page.
- A rate limit exception caused a null pointer exception which stopped the MySQL Enterprise Service Manager from retrieving the sys schema version.
- The All Targets menu was too narrow to correctly display long asset names.
- OS X 10.13 was not reported as **Mac OS X (High Sierra)**, but as **Unknown**.

## Changes in MySQL Enterprise Monitor 4.0.0 (2017-09-29)



### Important

It is not possible to upgrade to MySQL Enterprise Monitor 4.0 from versions preceding MySQL Enterprise Monitor 3.2. To upgrade an older version, you must first upgrade to MySQL Enterprise Monitor 3.2 before running the MySQL Enterprise Monitor 4.0 upgrade process.



### Important

MySQL Enterprise Service Manager 4.0's bundled repository is MySQL Server 5.7.19.

- [NDB Cluster Monitoring](#)
- [User Interface Enhancements](#)
- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

## NDB Cluster Monitoring

- **Important Change:** MySQL NDB Cluster monitoring has been added in this release for NDB Cluster 7.5.7, or higher.

The following changes were made to support it:

- **Overview** was extended to provide detailed information on NDB Cluster nodes.
- Advisors were updated.

The following NDB Cluster advisors were added in this release:

- **NDB Cluster Memory Usage:**
- **NDB Cluster Status:**
- All existing Cluster advisors were renamed with the prefix **NDB Cluster**.
- The following advisors were removed and their functionality rolled into the **NDB Cluster Memory Usage** advisor:
  - **Cluster Data Node Data Memory Getting Low**
  - **Cluster Data Node Index Memory Getting Low**
- The following advisors were removed and their functionality rolled into the **NDB Cluster Status** advisor:
  - **Cluster Data Node Has Been Restarted**
  - **Cluster Data Nodes Not Running**
  - **Cluster Has Stopped**

- Discovery of `ndbd`, `ndbmt`, and `ndb_mgmd` processes.
- Events view is extended to support MySQL NDB Cluster. Events are now generated for NDB Data Nodes, Management Nodes, and API Nodes, as well as MySQL instances and hosts.
- The **Topology** view is updated to support NDB Cluster topologies.
- An NDB Cluster Memory Usage report is added in this release. For more information, see [NDB Cluster Memory Usage](#). The report is based on the output from the `ndbinfo.memory_per_fragment` table. For more information, see [The ndbinfo memory\\_per\\_fragment Table](#).

## User Interface Enhancements

- **Important Change:** The user interface was extensively redesigned.
- A navigation bar is added to the left side of the interface. All functional navigation is now performed through this navigation bar.
- The **Overview** was extensively redesigned. See [Overview](#) for more information.
- The Asset Selector was replaced with target selection fields which establish a context for all data displayed in the application. For example, if you select a single MySQL instance, only the data for that instance is displayed for all views. See [Target Selection](#) for more information.

The target selector fields are persistent and present for all views.

See [Target Selection](#) for more information.

- The Settings menu (gear icon), is removed. All its contents are now grouped under the Configuration section of the navigation bar on the left side of the interface.
- The **Roles** and **Users** views are updated in this release.
- The **Create Event Handler** dialog's Filter section was redesigned. Also, the **Group** and **Assets** columns in the Event Handler list are combined into the **Subjects** column.

For more information, see [Creating Event Handlers](#).

## Functionality Added or Changed

- It is now possible to specify an exclusion list of users with database-level privileges on all databases in the `mysql.user` table. This is done using a regular expression in the MySQL User Account advisor. An event is generated for any user which does not match the defined expression.

For more information, see [MySQL User Account](#).



### Note

This change replaces the **Non-root User Has DB, Table, Or Index Privileges On All Databases** advisor, and moves its functionality to the **MySQL User Account** advisor. If you changed the scheduling or thresholds on the **Non-root User Has DB, Table, Or Index Privileges On All Databases** advisor, the changes will be lost after upgrading to this version.

(Bug #26260456, Bug #11748288, Bug #25696565)

References: See also: Bug #17742263, Bug #26130781.

- A User Statistics report is added in this release. For more information, see [User Statistics](#). The report is based on the user summary sys schema views. For more information, see [The user\\_summary and x\\$user\\_summary Views](#). (Bug #18888933)
- As of this release, if you are using a MySQL Server repository other than the installation bundled with the MySQL Enterprise Service Manager installation, the installer checks the MySQL Server for the following, minimum requirements:
  - MySQL Server version: versions older than MySQL 5.7.9 are not supported.
  - SSL: SSL must be enabled on the MySQL Server.
  - `innodb_file_format`: `innodb_file_format` must be `barracuda`.
  - `innodb_file_per_table`: `innodb_file_per_table` must be enabled.

If any of those checks fail, the installer displays an error and cannot proceed until the configuration is corrected.

The upgrade process performs the same checks.

To check your repository is correctly configured, the MySQL Enterprise Service Manager's configuration utility is extended with the parameter `--mysql-check-requirements`.

For more information, see [Service Manager Configuration Utilities](#).

- The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.19.



#### Important

Changes have been made to the prerequisites of MySQL 5.7.19.

- `libnuma.so.1` must be present on Linux platforms. The MySQL Enterprise Service Manager full and upgrade installers check for the existence of this library.
- During a MySQL Enterprise Service Manager upgrade, the upgrade installer runs the `mysql_upgrade` utility.
- The Tomcat server, bundled with the MySQL Enterprise Service Manager, has been upgraded to 8.5.16.
- The bundled JRE was updated to 1.8.0\_141 for both the Agent and Service Manager.
- `--mysql_ssl` is no longer required by the MySQL Enterprise Service Manager installer and has been removed.
- Data Purge settings have been added for aggregated data. For more information, see [Data Purge Behavior](#).

## Bugs Fixed

- MySQL Enterprise Monitor Proxy closed unexpectedly while executing queries. A segmentation fault occurred. (Bug #26798914)

- On the Advisors page, filtering for specific advisors did not return all the advisors filtered for. (Bug #26668301)
- On Linux, Unix, and Mac OS X platforms, the agent installer did not check the installation directory to ensure it had the required permissions to install MySQL Enterprise Monitor Agent in that location.

As of this release, the installer checks the directory for the appropriate permissions. If it does not have the rights to install to that location, it returns the following error message:

```
There has been an error.  
The current installation directory could not be accessed by non-root users.  
Please select a different installation directory or change the permissions  
to 755 for this directory.
```

(Bug #26551166)

- Under certain circumstances, such as filtering on many graphs on the **All Timeseries** page, the resulting graphs were not correctly populated with data. This was caused by the default value for the `maxHttpHeaderSize` in the Tomcat configuration file, `server.xml`, which is set too low for large quantities of data. The value is set to 32K by default.

As of this release, the value of `maxHttpHeaderSize` is doubled, to 64K, and applied to both the SSL and non-SSL connector configurations in `server.xml`.

If you are upgrading to this version from a previous version, you must edit `server.xml` and add `maxHttpHeaderSize="65536"` to each of the default connectors.

If you are performing a clean installation of MySQL Enterprise Service Manager, you do not need to edit any files, the new values are included by default. (Bug #26391094)

- If the Asset Selector was collapsed, there was no indication of which asset was selected. (Bug #25252032)
- It was not possible to filter a group twice in the Asset Selector. (Bug #20584984)
- Auto-refresh interfered with menu selection. (Bug #11748623)
- Sparkline graphs did not refresh dynamically.
- The Group Replication advisor, when expanded, listed MySQL instances which were not involved in Group Replication.
- Under certain circumstances, if the server hosting MySQL Enterprise Service Manager was restarted, MySQL Enterprise Service Manager failed to restart, logging the following error: `Error creating bean with name 'groupReplicationMembership'`.
- The **Add a new graph** drop-down menu was not displayed on the **Overview** dashboard.
- It was not possible to open a selected range of a timeseries graph in the Query Analyzer. The **Query Analysis** link did not behave as expected.
- An error was displayed when selecting the Table Statistics report: `Unable to generate SYS Schema report for selected MySQL Server. (U0422)`.

As of this release, the agent's Admin, General, and Limited users are granted the EXECUTE privilege.



### Important

If you defined these users manually, you must grant them the EXECUTE privilege.

For more information, see [Creating MySQL User Accounts for the Monitor Agent](#).

- the **Data Purge Behavior** drop-down menus displayed **Never** if the first-time setup was performed using the configuration utility, and the purge values set to any value not divisible by 7.

The values were correctly defined, this was a display issue, only.

- Graphs were not included in the Support Diagnostics report.
- On Mac OS X platforms, the `java_home_dir` variable was not set properly by the installer. As a result, the configuration report contained the following error: `***unknown variable java_home_dir`.
- On Linux, Unix, and Mac OS X platforms, the MySQL Enterprise Service Manager upgrade installer could not upgrade the installation if the installation directory contained files or directories created by a different user, or a user with permissions which differed from those of the user running the upgrade.

As of this release, the installers check the installation directory to ensure all files and directories have the correct permissions. If they do not, it exits with an informative error message.

- Under certain circumstances, it was not possible to monitor an instance which had previously been monitored and then deleted by MySQL Enterprise Service Manager.
- Graph data was not displayed for intervals of four or more days if the interval was defined on a combined graph.
- Under certain circumstances, bulk schedule changes were not correctly applied to the replication advisors, Group Replication Configuration and Group Replication Status.
- On the Advisors view, **Filter and Expand** filtered the advisor selection, but did not expand it as expected.

Also, some Advisor controls were not correctly rendered after filtering.

