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## Release Notes

### PulseNET Enterprise 3.0.0

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PulseNET is a software application used for monitoring devices in Industrial Communications networks. Each device that PulseNET monitors serves a specific function in the network. These functions may include acting as a bridge, router, access point/base station, or remote/subscriber. The devices can be widely dispersed geographically and are able to operate with different bandwidths, depending on radio type and frequency. For additional information on specific Industrial Communications products, refer to the GE MDS website: <http://www.gedigitalenergy.com/Communications/>.

PulseNET Base is intended for small-scale operations with a need to monitor up to 500 devices. PulseNET Enterprise is intended for large-scale operations with a need to monitor up to 25,000 devices.

These Release Notes provide:

- A list of new and updated features
- Workarounds for any known issues
- Late-breaking news about the software

Consult this document before installation, because it may contain updates to information and procedures described in other PulseNET guides.



## New In This Release

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### Platform Support

- *End of life for 32-bit support*—As of January 1, 2015, PulseNET will no longer be supported for 32-bit operating systems. For those customers needing to migrate from 32- to 64-bit, a step-by-step procedure is available.
- *End of life for Internet Explorer 7 support*—PulseNET integration with Internet Explorer 7 is no longer supported, as previous releases have warned. Internet Explorer users are encouraged to use IE8 or later.
- *Display resolution check*—At login, PulseNET checks the display resolution of your web browser and displays a warning message if the resolution is less than 1028 x 768.
- *Security fix for Cross-Site Scripting (XSS)*—The underlying PulseNET platform has been updated to prevent an unauthenticated user from making use of authenticated user access.

### PulseNET Configuration

- *License Improvements*—Updated licensing processes have been added for upgrades between major releases. Upgrades between minor releases containing bug fixes and new cartridges will not require updated license keys.
- *Orbit Platform Management*—This version includes dashboards and workflows specifically for the newly supported Orbit radios. Functionality includes discovery, data collection management, topology, performance and configuration metrics, and alert rules.
- *Intrepid Ultra Management*—This version includes dashboards and workflows to manage newer Intrepid Ultra PTP and PTMP radios. Functionality includes discovery, data collection management, topology, performance and configuration metrics, and alert rules.
- *Bulk Passphrase Changes for SD Radios*—In order to better serve customers with large-scale networks, PulseNET now permits bulk passphrase changes to be pushed to SD radios with the proper configurations.

### Data Collection

- *Improved SNMP discovery*—New changes allow PulseNET Administrators to initiate retries for SNMP radios in order to prevent discovery issues.
- *Improved Dlink discovery*—New changes fix a previous bug that failed to notify the user if the Dlink agent failed.
- *Improved Dlink cluster discovery*—New changes to the Dlink cluster discovery process allow the Administrator to specify either Active or Passive discovery and force PulseNET

to use that method only.

- *Improved Topology Explorer*—New changes fix previous topology issues for iNET radios employed as terminal servers, as well as adding Orbit radios functioning as terminal servers.
- *Improved Dlink register collection*—Dlink registers have been reorganized to allow for efficient polling and retry times.

## Data Management

- *PA Temperature alert rule added*—A new alert was added to notify users when the PA temperature on Dlink remotes goes outside of acceptable ranges.
- *Improved Operating System Rules*—A new tab and display allows Administrators to customize the operating system alerts.
- *Improved PDF reporting systems*—Added internal verification that vital identifiers appear in PDF reports and created warnings if they are not included.

## User Interface

- *Improved x790 cluster discovery*—Previously, PulseNET Enterprise's defaults for x790 cluster discovery meant that complete discovery could take as long as 12 hours. A new option for starting an on-demand configuration poll shortened this delay considerably.
- *Improved Summary dashboard*—Column options for "Uptime" and "Unit ID" were added to the Summary Dashboard.
- *Improved graph views*—New changes limited the graph types displayed to only those metrics supported by each radio, eliminating empty graphs. The scale on the Transmit Power graph was changed to improve data viewing.
- *Improved Dlink device detail views*—XMAP columns and values for Dlink devices were added to the appropriate detail views.
- *Improved firmware management*—Firmware image displays were added that allow administrators to see the existing firmware images (both active and non-active).
- *Improved searching*—Column headings in Advanced Search results were updated to allow users to filter the search by device types or certain metrics.

## Device Provisioning

- *Improved Device Detail View configuration*—
  - Added the ability to change the Owner name and Owner message fields and write those changes to TransNET, x790, and SD radios.
  - Added the ability to change the Contact and Location fields and write those changes to iNET-900, iNET-II, and Mercury radios.

- *Provisioning alerts and auditing*—New alerts and audit log entries have been added related to device changes.

## Known Issues and Workarounds

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- SD radios with firmware version 4.1.5 or earlier using Packet w/ MAC mode should not be configured for passive data collection. Upgrade the SD firmware to avoid this condition.
- Mercury 5800 radios with firmware version lower than 3.2.6 will not provide the new PA Temperature metric to PulseNET. Upgrade the Mercury firmware to avoid this condition.
- If you add a master device or replace a master device in a Cold Redundant Cluster, any previously defined maintenance windows for the cluster will no longer be available.
- When executing a firmware push, it is recommended that you only select between 8 and 10 devices at a time, which may take several hours to complete.

## Upgrade Path

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Customers currently using a 2.x release will be able to upgrade directly to 3.0.0 using the file enclosed in the release package. For initial considerations and step-by-step directions, see the “Upgrading PulseNET” section in the Installation Guide. For detailed assistance, please contact GE MDS.

Upgrading from PulseNET Base to PulseNET Enterprise simply requires you to upgrade your existing system to the comparable version of PulseNET Enterprise. Exclusive features will be installed and enabled automatically. If needed, you can then follow the PulseNET Enterprise upgrade path to bring your system up to the current version.

## Contents of the Release Package

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The PulseNET 3.0.0 release consists the following items:

- Installation files (Windows or Linux)
- Completely updated documentation for this release

**Installation Guide** - pre-installation considerations and detailed step-by-step instructions for installing and upgrading PulseNET

**User Guide** - detailed information about general PulseNET operations, focusing on the tasks that PulseNET Operators can accomplish

**Administration Guide** - detailed information about specific tasks that only PulseNET Administrators can accomplish

## For More Information

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If you have questions regarding PulseNET installation or operation, please contact GE MDS Support.

*Phone:* 585-241-5510

*Fax:* 585-242-8369

*Email:* [gemds.techsupport@ge.com](mailto:gemds.techsupport@ge.com)

*Website:* [www.gemds.com](http://www.gemds.com)

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Over two decades ago, GE MDS began building radios for business-critical applications. Since then, we have installed thousands of radios in over 110 countries. To succeed, we overcame impassable terrain, brutal operating conditions, and disparate, complex network configurations. We also became experts in wireless communication standards and system applications worldwide. The result of our efforts is that today, thousands of utilities around the world rely on GE MDS-based wireless networks to manage their most critical assets.

The majority of GE MDS radios deployed since 1985 are still installed and performing within our customers' wireless networks. That's because we design and manufacture our products in-house, according to ISO 9001, which allows us to control and meet stringent global quality standards.

Thanks to our durable products and comprehensive solutions, GE MDS is the wireless leader in industrial automation—including oil and gas production and transportation, water/wastewater treatment, supply, and transportation,

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### GE MDS ISO 9001 Registration

GE MDS adheres to the internationally-accepted ISO 9001 quality system standard.

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### Manual Revision and Accuracy

This manual was prepared to cover a specific version of our product. Accordingly, some screens and features may differ from the actual version you are working with. While every reasonable effort has been made to ensure the accuracy of this guide, product improvements may also result in minor differences between the manual and the product shipped to you. If you have additional questions or need an exact specification for a product, please contact our Customer Service Team using the information at the back of this guide. In addition, manual updates can often be found on the GE MDS Web site at [www.gemds.com](http://www.gemds.com).

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### In case of difficulty...

If you have problems, comments, or questions pertaining to the MDS PulseNET application, please contact GE MDS via one of the methods below:

Phone: 585-241-5510

Email: [gemds.techsupport@ge.com](mailto:gemds.techsupport@ge.com)

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Website: [www.gemds.com](http://www.gemds.com)

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