



GE MDS

PRODUCT RELEASE NOTE

RELEASE NOTE for: DGT Firmware Version 3.1.1

RELEASE DATE: January 28, 2009

FIRMWARE

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DGT Firmware - Version 3.1.1

Overview

This section describes firmware updates for the DGT product-line.

Products: DGT-U, DGT-D, and DGT-R

Version: 3.1.1

Release Date: January 28, 2009

Firmware upgrades can be easily performed using the DGT firmware upgrade application. See "DGT Firmware Upgrade Instructions RevA.pdf" for firmware upgrade procedures. Please contact your local GE MDS sales representative or GE MDSTechnical Support Team for any questions regarding this upgrade.

New Features

1. Added point-to-point mode. (i.e. operation of DGT network without a DGT-R). The user can configure the network to operate in either point-to-point (without DGT-R) or point-to-multipoint (with DGT-R) mode. One firmware load supports both modes.

Changes to Existing Features

1. Added internal alarm status reporting.
2. Performance log section added to status output format. Enabling the performance log is not available at this time. All performance log items will report back "0."

Defect Fixes

1. None

Known Errata

1. Transmit power reverts to 30dBm after power cycle.
2. When a DGT-D or DGT-U unit is powered on, the service output turns on for 1200ms and then turns off. After power on processes have completed, the service output operates correctly.

Operational Notes and Limitations

1. The DGT system exhibits outstanding performance under most operating conditions. For best performance, we recommend installations with at most 15 miles between units, and the RSSI (Received Signal Strength Indicator) of each unit should be greater than -80 dBm.

DGT Firmware - Version 2.1.2

Overview

This section describes firmware updates for the DGT product-line.

Products: DGT-U, DGT-D, and DGT-R

Version: 2.1.2

Release Date: 22-AUG-2008

Important Note

Version 2.1.2 DGT firmware contains a new wireless protocol. This protocol is not compatible with the protocol used in version 1.0.0 firmware. As a result, all DGT devices in a network must be upgraded to version 2.1.2 (or later) in order for the network to operate with the new protocol.

New Features

1. New wireless protocol with reduced worst-case transfer trip latency. Performance...
 - Transfer Trip Time (DGT-U to DGT-D)
 - Average: 17 ms
 - Maximum: 30 ms
 - Status Confirmation Time (DGT-U to DGT-D and back to DGT-U)
 - Average: 60 ms
 - Maximum: 300 ms

Changes to Existing Features

1. Added RSSI and transmitter output power values to the diagnostics text file.
2. 32-bit CRC protection of wireless data packets

Defect Fixes

1. None

Known Errata

1. Transmit power reverts to 30dBm after power cycle.
2. When a DGT-D or DGT-U unit is powered on, the service output turns on for 1200ms and then turns off. After power on processes have completed, the service output operates correctly.

Operational Notes and Limitations

1. The DGT system exhibits outstanding performance under most operating conditions. For best performance, we recommend installations with at most 15 miles between units, and the RSSI (Received Signal Strength Indicator) of each unit should be greater than -80 dBm.