



GE VERNOVA

PRODUCT RELEASE NOTES

V2.3.2

RELEASE NOTE For: MDS TransNEXT Firmware Version 2.3.2

RELEASE DATE: June 23, 2025

FIRMWARE

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MDS™ TransNEXT
COVERING FIRMWARE – REV 2.3.2

Overview

This section describes Software/Firmware updates for the MDS TransNEXT platform, noting changes since REV 2.2.4

Products: MDS TransNEXT

Firmware Version: 2.3.2

New Features

1. Regulatory support beyond North America. Based on Order Entry configuration, TransNEXT can be factory configured to lock out certain frequency zones for select target countries. Contact your sales representatives to see what countries are supported and homologated.
2. Receiver Time-Out alarm – this optional feature provides the ability to alarm when a radio stops seeing data for an extended time. Setting radio.rxtot to a non-zero value enables the alarm. The value represents the maximum time in minutes that the radio can go without receiving data prior to issuing the alarm. The alarm is logged and can also provide a signal to external device (based on the value of system.amask)

Changes to Existing Features

1. N/A

Resolved Issues (fixed)

1. Some units would display power output less than actual output power. [n0339]

Special NOTICES

- Config String is a 21-character order code representing product configuration that includes an “Authorized Feature Set” field in characters #17-18. This appears as “CONFIG:” on the product label and can also be found by issuing the “show device” command. **This software will not run on models with a product configuration that has “NN” in character positions #17-18.**

Operational Notes and Errata

- When a local firmware update is terminated by a power interruption, the inactive image may become corrupted. Recommended corrective action is to reprogram the inactive image using the CLI. [1600]
- Do NOT use passive DLINK protocol with LPM mode. [1559]
- Use of the embedded rtu simulator (com1.rtu "on") with lpm mode is not supported. [1555]
- When using LPM mode with radio.hoptime 28, it may be necessary to set radio.lpmhold to 100ms or higher. This is more likely to be required on units that are connected to a store-and-forward device. [1554]
- For mixed systems using TransNEXT and TransNET, if a TransNEXT master (or extension) is set for store-and-forward (radio.saf "on") with radio.hoptime 28, some TransNET remotes may not be able to reliably pass data. Recommendation is to replace the affected TransNET remote with a TransNEXT device. [1534]
- When using the LED panel pushbutton to locally wake a radio from LPM mode, the USB COM port may not always communicate. If needed, power cycle the radio to effect a recovery. [1528]
- Use of ssh with lpm mode may cause lpm sleep to be suppressed following ssh logout. Use of ssh with LPM mode is not recommended. [1520]
- A toggling Sleep I/O line may prevent a Web management session from properly timing out. Use of ethernet is not recommended in combination with Sleep Mode. [1484]
- During web-based firmware reprogramming, do not issue a CLI app command as this may cause a programming failure. If a failure occurs, repeat the programming operation again. [0969]
- The "app copy" command does not properly update system status if an OTA reprogramming session was previously in progress. In this case the inactive image will still show as OTA in progress and not allow switch to the image. [0962]
- When receiving an over-the-air firmware update, once the operation begins the inactive firmware image will be marked as (OTA update in progress). This status indication is persistent - including across reboots -- until the inactive firmware image is successfully updated. [0961]
- In rare cases, if a local firmware reprogramming operation is interrupted by a power disconnection the onboard file system can be corrupted preventing future firmware updates. Recovery requires a drive reformatting operation. Contact Technical Services. [0954]
- In rare cases, when an OTA upgrade is in progress, a remote may incorrectly show a status of "cancelled" when it is still active. Recommendation is to let the operation continue and query for completion status using the app command. [0950]
- When performing Over-the-Air reprogramming from the web, under some conditions the data displayed on the web may not be accurate. This can occur if the user navigates away from the web page and then returns. It can also occur if parameters are changed by CLI commands overriding the parameters used in the original web session. In all cases if the web data does not appear correct, use the CLI to confirm transfer status. [0949]
- NMS query of diagnostics may experience failures while an Over-the-Air reprogramming session is in progress. This can be mitigated by using a lower frequency of NMS query and using Active Polls for query and Passive method for OTA reprogramming. [0947]
- When com1 is configured for RS485 mode, do not use baud a setting of 300 bps. [0863]
- For NMS operation in SAF systems, passive DLINK messages are sometimes not received correctly from a TransNEXT mode X unit transmitting upstream to a TransNET master. In these cases we recommend replacing the TransNET master with a TransNEXT device. [0813]
- For units equipped with a display, changes to display configuration for display.enabled and display.invert require a reboot before taking effect. [0514]
- For a remote (or mode "x") device, when leds.enabled is set to "off", the PWR LED will initially be off when unsynchronized but will transition to solid red upon achieving synchronization with a master. [0512]
- Note that when using the Web interface, a web refresh will log the unit out. Login again to proceed. [0443]



RELEASE NOTE For: MDS TransNEXT Firmware Version 2.2.4

RELEASE DATE: April 7, 2025

FIRMWARE

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MDS™ TransNEXT

COVERING FIRMWARE – REV 2.2.4

Overview

GE Vernova has updated MDS TransNEXT products including both hardware and firmware.

TransNEXT version 2.2.4 is new firmware equivalent to firmware version 1.1.16 but intended only for TransNEXT units built with new hardware. Version 2.2.4 will not be able to run on prior hardware

Products: MDS TransNEXT

Firmware Version: 2.2.4

New Features

1. First version supporting new hardware

Changes to Existing Features

2. N/A

Resolved Issues (fixed)

1. N/A

Special NOTICES

- To determine “new” vs. prior hardware look at the product config string. This appears as “CONFIG:” on the product label and can also be found by issuing the “show device” command.
- The Config String is a 21-character order code representing product configuration that includes an “Authorized Feature Set” field in characters #17-18. **This software will only run on models that do NOT have “NN” in character positions #17-18.**
- See product bulletin PB25002 for additional detail on this product change.

Operational Notes and Errata

1. When a local firmware update is terminated by a power interruption, the inactive image may become corrupted. Recommended corrective action is to reprogram the inactive image using the CLI. [1600]
2. Do NOT use passive DLINK protocol with LPM mode. [1559]
3. Use of the embedded rtu simulator (com1.rtu "on") with lpm mode is not supported. [1555]
4. When using LPM mode with radio.hoptime 28, it may be necessary to set radio.lpmhold to 100ms or higher. This is more likely to be required on units that are connected to a store-and-forward device. [1554]
5. For mixed systems using TransNEXT and TransNET, if a TransNEXT master (or extension) is set for store-and-forward (radio.saf "on") with radio.hoptime 28, some TransNET remotes may not be able to reliably pass data. Recommendation is to replace the affected TransNET remote with a TransNEXT device. [1534]
6. When using the LED panel pushbutton to locally wake a radio from LPM mode, the USB COM port may not always communicate. If needed, power cycle the radio to effect a recovery. [1528]
7. Use of ssh with lpm mode may cause lpm sleep to be suppressed following ssh logout. Use of ssh with LPM mode is not recommended. [1520]
8. A toggling Sleep I/O line may prevent a Web management session from properly timing out. Use of ethernet is not recommended in combination with Sleep Mode. [1484]
9. During web-based firmware reprogramming, do not issue a CLI app command as this may cause a programming failure. If a failure occurs, repeat the programming operation again. [969]
10. The "app copy" command does not properly update system status if an OTA reprogramming session was previously in progress. In this case the inactive image will still show as OTA in progress and not allow switch to the image. [962]
11. When receiving an over-the-air firmware update, once the operation begins the inactive firmware image will be marked as (OTA update in progress). This status indication is persistent - including across reboots -- until the inactive firmware image is successfully updated. [961]
12. In rare cases, if a local firmware reprogramming operation is interrupted by a power disconnection the onboard file system can be corrupted preventing future firmware updates. Recovery requires a drive reformatting operation. Contact Technical Services. [954]
13. In rare cases, when an OTA upgrade is in progress, a remote may incorrectly show a status of "cancelled" when it is still active. Recommendation is to let the operation continue and query for completion status using the app command. [950]
14. When performing Over-the-Air reprogramming from the web, under some conditions the data displayed on the web may not be accurate. This can occur if the user navigates away from the web page and then returns. It can also occur if parameters are changed by CLI commands overriding the parameters used in the original web session. In all cases if the web data does not appear correct, use the CLI to confirm transfer status. [949]
15. NMS query of diagnostics may experience failures while an Over-the-Air reprogramming session is in progress. This can be mitigated by using a lower frequency of NMS query and using Active Polls for query and Passive method for OTA reprogramming. [947]
16. When com1 is configured for RS485 mode, do not use a baud setting of 300 bps. [863]
17. For NMS operation in SAF systems, passive DLINK messages are sometimes not received correctly from a TransNEXT mode X unit transmitting upstream to a TransNET master. In these cases, we recommend replacing the TransNET master with a TransNEXT device. [813]
18. For units equipped with a display, changes to display configuration for display.enabled and display.invert require a reboot before taking effect. [514]
19. For a remote (or mode "x") device, when leds.enabled is set to "off", the PWR LED will initially be off when unsynchronized but will transition to solid red upon achieving synchronization with a master. [512]
20. Note that when using the Web interface, a web refresh will log the unit out. Login again to proceed. [443]