



# GE MDS *PRODUCT RELEASE NOTES Rev R*

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RELEASE NOTE For: MDS ORBIT MCR/ECR Firmware Version 4.1.7

RELEASE DATE: February 01, 2016

*FIRMWARE*

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## **MDS™ Orbit MCR/ECR**

### **COVERING FIRMWARE – REV 4.1.7**

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#### **Overview**

This section describes Software/Firmware updates for the MDS Orbit MCR/ECR platform.

Products: MDS Orbit MCR/ECR

Firmware Version: 4.1.7

Orbit™ MCR Learning and Development YouTube Channel



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#### **New Features**

1. None

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#### **Changes to Existing Features**

1. LN NIC firmware is updated to version 0.3.7.
2. Added support for L4A NIC.
3. Added a status table of all the participating devices on Remote firmware push sender.

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#### **Resolved Issues (Fixed)**

1. Fixed an issue with SNMP walk failure on Orbit. This issue can occur when the walk is done during a NETCONF configuration operation or when SNMP manager tool is using a unique port for each SNMP request within the walk.
2. Fixed an issue where in some circumstances the 4G cell modem is not detected in the system on power up.
3. Reduced memory utilization during system manager's copy-image operation.

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#### **Known Errata**

1. The logging manager can restart when large number of VLAN interfaces are created at the same time.
2. Under some circumstances, the RIP protocol may need to be disabled and then enabled to resume normal operation.
3. When using hex as a custom ethertype in a QoS classifier it is incorrectly labeled as "T #".
4. Wizards which require a 'Ruleset' name cannot include spaces or other special characters.

5. Reprogramming using a local file may fail and get into a bad state. Reboot the device to regain local file reprogramming functionality.
6. If multicast terminal server operation fails, disabling the Wi-Fi interface may restore functionality.
7. The DHCP server does not support IPv6.
8. When using multiple Orbits as WiFi Access Points, they must be located on separate broadcast domains.
9. On NxRadio interface status tab, refresh of NxRadio panel at the rate of 1 sec can cause the loader to be always running, thereby preventing the user from clicking 'stop' to stop the automatic refresh. It is recommended that nx-status be refreshed no more than every 5 secs. In the event, the user gets in this state, normal operation can be restored by clicking browser's reload/refresh button.
10. Wi-Fi interface interruptions may occur in the presence of high RF interference. If a service interruption occurs, the ORBIT MCR will detect and reset the Wi-Fi interface to restore service.
11. Changing the Wi-Fi configuration may cause station-bridge clients to stop passing data. A reboot is required to recover.
12. When a Commit is aborted by the ORBIT MCR, the device may misrepresent the current configuration. It is recommended to confirm the configuration is correct and re-commit.
13. Rebooting a Station Bridge may cause a service outage to other Wi-Fi connected devices.
14. When using Dual SSIDs, changes to ap-config parameters may cause the device to reboot upon commit.
15. Monitoring a disconnected interface may cause a *netmgr* failure. (See #22 under Operational Notes and Limitations).
16. Changing a Wi-Fi interface from an enabled Station with an IP address and filters to a disabled, bridged, Access Point without an IP address and filter may cause a *netmgr* failure.
17. When a Wi-Fi Station is in the bridge, the STP status information for the Wi-Fi device is not available.
18. The "Local IPs" configuration parameter for Terminal Servers is not currently functional.

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### Special Notes

1. **This release features updated configuration data models that are not backwards compatible with older releases. When a unit running an older release (3.x.x) is upgraded to this release, a snapshot of its configuration is made and stored on the unit. The unit's configuration is automatically migrated to newer data model. The user can downgrade to an older firmware version only by choosing to go back to the legacy configuration snapshot.**
2. This release contains a feature (point-to-point-connection) that can be enabled to force assignment of a /32 address to cell modem. This prevents an issue where modems can be assigned a /30 prefix causing connectivity issues from one such unit to another over the Cellular network.

`% set interfaces interface Cell ipv4 dhcp point-to-point-connection true.`

It is recommended that above configuration be applied to Cell interface that have been configured to obtain address via DHCP.

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### Operational Notes and Limitations

1. The Web UI rejects a password change with the backslash character if repeated two times in a row example: Y1 \\ n%\*. The CLI and SSH reject a password change with a single backslash character, example: Tech\123.
2. In the Access Control List Wizard, if the Layer 2 Log Prefix field yields an error, delete this field to continue.
3. The HTTP Protocol is not supported for exporting files.
4. The Terminal Server may fail if polling with VMIN = 1. Disable then re-enable the Terminal Server to regain functionality.
5. Internet Explorer version 8 is no longer supported. Please upgrade this application to version 11, or use Mozilla Firefox or Google Chrome.
6. When using an Orbit on both sides of an IPSec tunnel there is an IKEv1 issue. IKEv2 is recommended regardless of this IKEv1 limitation.
7. In the CLI, deleting a single entry in a leaf-list will delete the entire list. Do not use brackets in the command when deleting an element in the list.
8. Configuring multiple Terminal Servers on the same TCP port does generate a warning, but operation will not work correctly.

9. While using the multicast reprogramming feature, do not interact with the sending device for the first 5 minutes.
10. Configuration of the station-max parameter, on the Wi-Fi interface, is not limited to 7 Stations, even though the ORBIT MCR currently supports 7 Stations.
11. To delete all IPv4 addresses from an interface use the following command:  
    % delete interfaces interface *myInterface* ipv4
12. Wi-Fi Station Bridging is not interoperable with other vendor's Wi-Fi devices.
13. When the Wi-Fi interface is enabled with Dual SSIDs, Station Bridging operation is restricted to the first alphanumeric SSID.
14. When using Dual SSIDs maximum throughput is achieved only on the first SSID; the second SSID will have reduced capacity (details are system dependent)
15. SCEP operations require certificate information to contain a Common Name, otherwise the operation will fail. No direct indication of failure is provided.
16. On a Microsoft CA server, the SCEP template used should not include Extended Key Usage.
17. In WebUI, there are no preconfigured file servers. This facility is only accessible from the CLI.
18. The USB port is currently intended for console access only
  - Note: If the USB port is in use as a Terminal Server and the ORBIT MCR is rebooted (or connection interrupted) the USB cable must be disconnected and reconnected and the Terminal Session on the connected device must be restarted.
19. Any member of a disabled bridge will be disabled. Members must first be removed from the bridge in order to regain access to the interface.
20. A Wi-Fi Station will not age out in the event that its corresponding Wi-Fi Access Point is no longer present.
21. Date/Time settings on ORBIT MCR are expressed in GMT format.
22. Some CLI command sequences, particularly those involving device configuration or repeat status monitoring, may rarely cause an internal error known as a *netmgr* failure. The system will effect recovery, but to ensure proper operation a reboot is recommended.
23. In rare conditions DHCP may fail to provide IP addresses; in this case a manual reboot is required.
24. The "\ " character is an escape character for the CLI. If you want to enter a "\" into a text field (such as a user password), you will need to use "\\ ".
25. Changes to the Wi-Fi interface mode may result in loss of data for several minutes.
26. STP is not functional over interfaces belonging to a VLAN.
27. Tab completion is not available on the CLI when deleting list entries. The entry name must be manually entered using the name as displayed by the show command.
28. Not all certificate upload or download actions create proper events in the event log.
29. Displaying the active routes will not show all configured routes, when connectivity to an affected subnet cannot be established.
30. When changing a Wi-Fi Station to put it into a VLAN, you must reboot the device.
31. Attempting to perform simultaneous reprogramming operations on more than four NxRadio remotes, via the Over-the-Air link, may result in reprogramming failures. This will be more noticeable at lower modem modes.
32. The NxRadio connected-remotes database will not show an IP address if the Remote is configured to participate in VLANs.
33. The configuration parameter to enable a specific Wi-Fi Access Point, overrides the higher level configuration to enable the Wi-Fi interface.
34. Long association times for Remotes may occur when an NxRadio Access Point interface is flooded with traffic.
35. QoS may not affect the Ethernet interfaces or bridging of Ethernet traffic between a Wi-Fi Access Point and a Wi-Fi Station in a bridge.
36. A bridged link between a Wi-Fi Access Point and a Station will only pass <1492 byte frames.
37. When using a Public Dynamic IP Addressed SIM card, On-Demand IPsec Mode is not supported. Always-On mode must be used instead.