RELEASE NOTES

About MGOS 4.4.1

MGOS 4.4.1 is a general release for **MG90 5G routers only**.

Customers are recommended to upgrade to this latest release to take advantage of new features, updated functionality, security updates, and addressed field-reported issues that are described in this document.

Note: Sierra Wireless recognizes that our customers deploy devices in a wide range of network environments with varying configurations. It is always good practice to install a new MGOS release with the planned operation workflow on a few trial devices to ensure that standard operation is maintained within your environment before deploying the new release across your fleet of MG90 5G devices.

Important: *Customers using FIPS mode must upgrade to stay current with security bug fixes.*

Upgrade Methods

MGOS 4.4.1 can be installed using either of the following methods:
- USB stick—Upgrade directly from MGOS 4.4 to MGOS 4.4.1
- Over-the-air—Upgrade via AMM subject to the requirements below
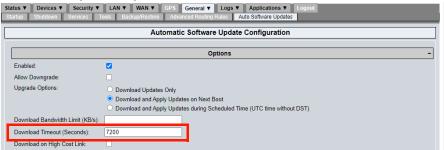
AMM Over-The-Air Upgrade Requirements

- AMM 2.16 or newer is required to upgrade over-the-air to MGOS 4.4.1.

Important: *Upgrading using older AMM versions will result in MGOS firmware upgrade failures, and can require a USB-stick install to recover. For more information, refer to* Product Bulletin: AMM 2.16 Prerequisite to MG90 firmware upgrade.

- **Upgrade recommendation**—Before using AMM to upgrade to MGOS 4.4.1, Sierra Wireless recommends setting the download timeout value to 7200 s, to ensure the download completes in one attempt. (Otherwise, if the download times out, it will resume at the next opportunity—for example, when the active link changes, the next scheduled update window, when the device reboots, etc.)

   a. In MGOS, go to General > Auto Software Updates.

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b. In Download Timeout (Seconds), enter 7200.

c. Click Submit.

New Features/Updated Functionality

Note: MGOS 4.4.1 provides Verizon network support for the MG90 5G router. Currently the MG90 5G router will connect only to the Verizon LTE network—when the router detects a Verizon SIM, 5G bands are automatically disabled.

AMM

Added support for AMM 2.17.2 multiple unit reboot feature for MG90 routers. This feature enables AMM to reboot multiple MG90 routers with a single command.

Broadcast (Gateway State Beacon)

Enhanced the VPN Status configuration setting with a new option to broadcast the names and statuses of all defined VPNs.

WAN Connection (Cellular)

Support correct AT&T/FirstNet MTU size requirements.

WAN Link Configuration (Cellular)

Added 5G band support in the band list when the Custom Band Setting Mode is set to Restrict to Bands, or to Exclude Bands.

Updated Setting for Band options:
- Changed "Automatic" to "All Bands" to accurately reflect functionality of the Custom Band Setting Mode band lists.
- Added 5G NR ALL option.

Added WAN link configuration option Enable TCP MSS Clamping. When enabled, this option clamps TCP packets to MTU size minus 40 bytes.

WAN Link Policies (Cellular)

Improved the WAN Signal Strength policy:
- Additional RF condition metrics (RSRP, RSRQ, SINR)
- Updated the penalty behavior to remove the penalty in one step at the end of the recovery period, rather than linearly over the course of the period.

Bug Fixes

GNSS	
	Resolved an issue that could cause the indicated location of a stationary router to drift.
	Resolved an issue that, in certain cases, caused infrequent loss of GPS/GNSS fix.
Vehicle Telemetry	
	Resolved an issue that intermittently displayed erroneous speed information.
Ethernet	
	Resolved an issue where an Ethernet port connected to third-party equipment would not be available on power up or when reconfigured from IDLE to LAN or WAN.
WAN	
	Resolved an issue in MGOS 4.3.0.1 (FIPS only) that prevented port forwarding on Host-to-LAN VIPs.
AMM	
	Resolved an issue in MGOX 4.3.0.1 (FIPS only) that could cause an incorrect VPN status to be reported in the AMM Link Utilization report.
Wi-Fi	
	Resolved an issue that caused traffic interruptions on Wi-Fi WAN.
Security	
	Multiple security enhancements.