# MGOS 4.2.1 Release Notes

MGOS 4.2.1 is for MG90 Series routers.

## Upgrade Requirements

MGOS 4.2.1 can be installed:

- Directly via USB stick, or
- As an over-the-air upgrade subject to the requirements below
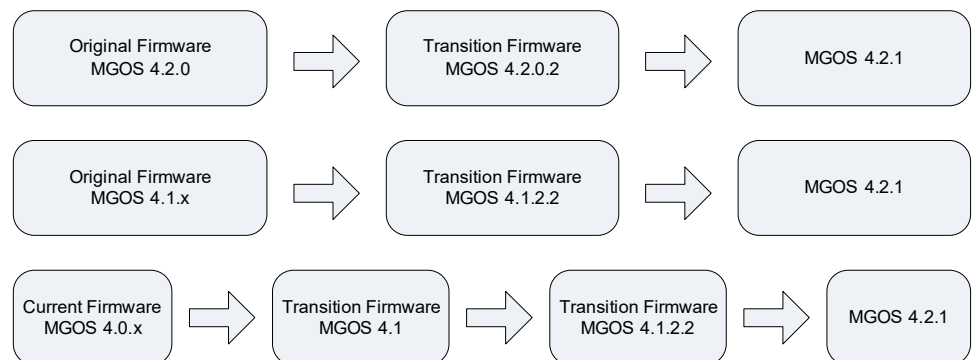
**AMM Over-The-Air Upgrade Requirements**

- OTA upgrades must be performed by AMM 2.16 or newer

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**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.*

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The following requirements must be met if using AMM to upgrade the MG90 OTA:

- MG90s containing two different Sierra Wireless Modules (e.g. MC7354+MC7455, MC7455+EM7511, etc.)—Make sure a SIM is inserted for at least one of the radio modules prior to performing the upgrade. For more information, refer to the AirLink MG90 Software Configuration Guide topic "Installing Software Updates".
- Upgrade path—Transition releases are required during the upgrade process. The required transition releases depend on the MG90's currently installed firmware.

    To identify the transition firmware required, refer to Product Bulletin: Upgrading to MGOS 4.2 or Later—Updated 26 Nov 2018.

| Original Firmware MGOS 4.2.0 | ⇒ | Transition Firmware MGOS 4.2.0.2 | ⇒ | MGOS 4.2.1 |
|---|---|---|---|---|
| Original Firmware MGOS 4.1.x | ⇒ | Transition Firmware MGOS 4.1.2.2 | ⇒ | MGOS 4.2.1 |

| Current Firmware MGOS 4.0.x | ⇒ | Transition Firmware MGOS 4.1 | ⇒ | Transition Firmware MGOS 4.1.2.2 | ⇒ | MGOS 4.2.1 |
|---|---|---|---|---|---|---|

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**Important:** *Transition firmwares (MGOS 4.1.2.2 and MGOS 4.2.0.2) are only intended as stepping-stone firmware in the upgrade path to MGOS 4.2.1 and are not intended for long-term use. Failure to install the required transition firmware prior to upgrading to MGOS 4.2.1 via the AMM will result in an upgrade failure, and can require a USB-stick install to recover.*

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# New Features

### Auto Software Updates

Restored the Purge Images on Next Boot field to General > Auto Software Updates screen, and set default value to disabled (deselected).

### VPN

Gateway Virtual IP field now includes 'Automatic' option that enables an IPsec tunnel to receive a Host-to-LAN virtual IP address dynamically from the ACM IP address pool.

# Security Enhancements

### 3rd-party Product Support

Added greater security controls to increase protection of sensitive data..

# Addressed Issues

### Software Upgrade

Resolved issue where OTA upgrade from AMM would not begin until WAN link was switched, or swupdate service was restarted. New software now begins to download automatically when AMM issues the OTA upgrade software command.

Resolved issue where OTA upgrade to MGOS 4.2 would delete custom script files. The installer for OTA and USB upgrades now preserves custom scripts (with '.sh' (shell) or '.py' (python) extensions).

Resolved upgrade issue that required management tunnel monitors to be disabled before upgrading to MGOS 4.2.

Resolved issue where AMM would not display a successful upgrade as completed, under certain conditions.

### Broadcast Router Status

Resolved issue that caused router status beacon to occasionally output '-200.00000' signal strength for a connected Cellular WAN link.

### GPIO Status

Resolved issue where GPIO Status page would show status of only four pins ("0,0,0,0") when all GPIOs were disabled.

### Advanced Routing Rules

Resolved issue where advanced routing rules (scripts) would intermittently fail to trigger.

### System Boot

Improved boot time.

**WAN Configuration — Split Access**

In Ethernet and Cellular WAN Link configuration screens, Split Access is no longer automatically enabled when Load Balanced is selected. If Split Access is required, it must be specifically selected.

*Note: Users are encouraged to evaluate use of the Split Access feature from a security and system perspective prior to enabling. For details, refer to the AirLink MG90 Software Configuration Guide.*

# Sierra Wireless Contact Information

Sales information and technical support, including warranty and returns:

> Web: sierrawireless.com/company/contact-us/

> Global toll-free number: 1-877-687-7795

Corporate and product information: sierrawireless.com