

# **AerDocsis System Software Software Release Notes**

**lomoM4 20.2.7444**

December 19, 2024

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# 1. Compatible devices and minimum versions

Product family	Devices	Minimum versions
<b>Base Stations</b>		
BS100	AXS-BS-150-N	HoneybeeM1 19.6.6172
BS400 and BS800	AXS-BS-450-N AXS-BS-452-N AXS-BS-850-N	HoneybeeM1 19.6.6172
<b>User Terminal</b>		
CPE100	AXS-CPE150-15 AXS-CPE150-RS	HoneybeeM1 19.6.6172
CPE200 and CPE300	AXS-CPE250-15 AXS-CPE250-RS AXS-CPE350-15 AXS-CPE350-RS	HoneybeeM1 19.6.6172
CPE400	AXS-CPE450-15 AXS-CPE450-RS	HoneybeeM1 19.6.6172
SU1100	PRO-SU-1150-23 PRO-SU-1150-N	HoneybeeM1 19.6.6172
SU1200 and SU1300	PRO-SU-1250-23 PRO-SU-1250-N PRO-SU-1350-23 PRO-SU-1350-N	HoneybeeM1 19.6.6172
<b>Radio Links</b>		
LNK-CERO	LNK-LU050-15 LNK-LU050-RS	HoneybeeM1 19.6.6172
LNK100	LNK-LU150-N LNK-LU150-23	HoneybeeM1 19.6.6172
LNK400	LNK-LU452-N	HoneybeeM1 19.6.6172

## 2. What's new in this release?

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### 2.1 New features

#### 2.1.1 Common to all devices

##### *Remote Commands*

Three remote commands have been added to modify the maximum radio transmission power of connected user terminals:

- Set normal Max Tx Power: Sets the terminal's maximum power to 23 dBm.
- Set extended Max Tx Power: Sets the terminal's maximum power to 26 dBm.
- Set upper limit Max Tx Power: Sets the terminal's maximum power to 28 dBm.

Before using this functionality, please read the explanation of "Increase in Maximum Power" (IomothM3 20.2.7233 Release Notes, section 2.1.1).

##### *Protocol Classifiers on PPPoE*

An option has been introduced to classify PPPoE traffic based on its protocol (LCP, IPv4, IPv6, MPLS, PAP, CHAP, AppleTalk, etc.). For these classifiers to appear, the CSL type must be set to PPPoE in the template.

#### 2.1.2 BS400 and BS800 Base Stations

##### *Frequency range extension*

The frequency range has been extended in the upper part of the spectrum. Previously, it reached up to 5875 MHz, and now it has been extended to 5940 MHz.

##### *SFP Identifier*

The identifier of the SFP connected to the device is displayed on the "Status & Alarms" web page, in the "System Status" table.

The SFP identifier will appear in different colors depending on its compatibility with the device:

- Green: Official SFP from Albentia.

- Orange: Unknown SFP (use at your own risk).
- Red: Incompatible SFP.

It is important to note that if the identifier color appears in red, the system may behave unstably. This can result in anything from traffic losses to freezes and reboots.

### **2.1.3 User Terminals**

#### *DHCP Options 66 and 67*

Support has been added for DHCP options 66 and 67. This enables quick configuration of user terminals in the field by downloading a bulk file from a TFTP server and applying its contents to the device.

It allows applying the configuration file, the user file, and the root user's password. The bulk file format is the same as the one downloadable from the terminal's Device webpage.

The download and application of the configuration and user files will only be carried out if the information differs from what is already configured on the device.

### **2.1.4 LNK-CERO Radio Links**

#### *Support for New Devices*

This firmware provides support for the LNK-LU050-RS terminal.

## **2.2 Improvements**

### **2.2.1 User Terminals**

#### *Configuration File Compatibility*

Compatibility with configuration files from a greater range of radios has been added. In other words, CPE100 devices are now compatible with configuration files from CPE200, CPE300, and CPE400. This allows, in conjunction with the new functionality of DHCP

options 66 and 67, the use of a single bulk file with a CPE400 configuration to set up all terminals.

## **2.2.2 CPE100 User Terminals and BS100 Base Stations**

### *Update*

Firmware generation has been optimized to reduce its size, along with the update process, aiming to avoid complications during the update process.

## **2.3 Fixed Issues**

### **2.3.1 BS400 and BS800 Base Stations**

#### *Radio Synchronization*

An error that could cause some radios to fail to fully synchronize in frequency and/or time has been fixed.

#### *System*

Internal errors affecting system efficiency have been corrected.

### **2.3.2 BS800 Base Stations**

#### *Reboots*

Errors that could cause reboots in BS850 base stations have been fixed.

#### *Data Loss*

On very rare occasions, important internal data in a BS850 could become corrupted if power was cut off after save, provisioning, or user configuration operations.

### **2.3.3 BS452 Base Stations**

#### *Manual Reboots*

BS452 base stations might fail to reboot via software in situations where it was necessary, such as after an update process or a manual reboot initiated from the web interface.

### **2.3.4 User Terminals**

#### *Remote Commands*

Fixed issues that prevented the proper functioning of the remote command “Lock BS Region.”

#### *Base Station Authentication*

Resolved issues that blocked the sending of keys for authenticating the base station to user terminals.

### **2.3.5 CPE100 User Terminals**

#### *User Disconnections for CPE100*

Fixed a problem affecting carrier changes in user terminals. Previously, terminals could disconnect immediately if balanced or manually switched to a carrier with low CINR and RSSI levels in UL and DL, instead of reverting to their original carrier.

## 3. Important notes

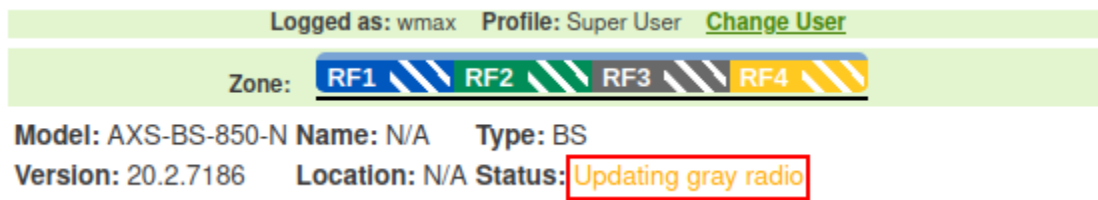
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### 3.1 IMPORTANT NOTE: BS800 with serial number A22.

This firmware update process will automatically stop MACs before updating on AXS-BS-850 base stations with serial numbers starting with A22. Therefore, a service outage will occur from the moment the update starts.

### 3.2 IMPORTANT NOTE: Radio FW update.

After updating to this release and restarting the device, the system will check if it needs to make updates to the radios' firmware, so it may take longer than usual to be fully operational. If these updates are necessary, the system will notify you on the website with a message as shown in the following image:



It is important that the equipment is not turned off electrically until the update is completed. Otherwise, the firmware may be corrupted and it will be necessary to send the device to the factory for manual updating.

The devices that may require this additional update step are the following:

Model	Serial number
AXS-BS-850-N	A24XXX, A22X1X
AXS-BS-452-N	A25XXX, A23X04, A23X05
AXS-BS-450-N	All