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AerDocsis System Software

Software Release Notes

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1. Compatible devices and minimum versions

Family	Devices	Minimum versions
Base stations		
BS400 y BS800	AXS-BS-450-N AXS-BS-452-N AXS-BS-850-N	HoneybeeM1 19.6.6172

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2. What's New in This Version

2.1 New Features

2.1.1 Common to All Devices

Health Monitor

The Health Monitor system allows alarms to be triggered in response to configured events. These alarms are displayed at the top of the web interface and can be resolved directly by clicking the “Resolve” button in the alarm notification.

Spectrum Analysis

The option to change the frequency directly from the spectrum analysis web has been added.
When hovering over a spectrum graph, vertical lines representing the frequency of each radio will appear, with each line displayed in the corresponding radio's color.

2.2 Improvements

2.2.1 Common to All Devices

Dynamic Radio Management and Service Continuity

System robustness and availability have been significantly improved through the introduction of dynamic management of the radios within a zone.

If a radio becomes inoperative, the rest of the zone continues to operate normally. Terminals associated with the affected radio can automatically restore their connection through the available radios, distributing themselves among them.

Additionally, this new architecture allows radios within a zone to be turned on or off during operation without interrupting service on the remaining radios.

This improvement significantly increases fault tolerance and service continuity, reducing the impact of individual failures on the overall availability of the base station.

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Health Monitor

Log event detection in the Health Monitor system has been simplified by removing the delimiter field, which caused confusion and was not intuitive to use.

Instead of generating an action for each character sequence separated by the delimiter, a single action is now always created, with the text to be matched corresponding to the entire input text.

Log

Redundant messages have been removed from the system log.

MAC Control

The functionality for displaying resolved alarms has been removed, as it could never show any results.

Spectrum Analysis

Frequencies restricted by regional regulations are now displayed in gray in the spectrum analyzer.

2.2.2 BS400 Base Stations (SN A15, A20, A21, and A23) and BS800 (SN A22)

Firmware Update

Redundant steps have been removed from the firmware update process, making it faster and safer.

Internal

Memory consumption has been reduced in internal transactions between different system components.

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2.3 Applied solutions

2.3.1 Common to All Devices

Provisioning

After deleting a template through the Local AA web interface, users associated with that template were reassigned to an internal template reserved for system use, and the option to edit it was made available. This is no longer possible.

DSA

When creating a provision template, if the “Disc on DSA Fail” box was unchecked, in some cases, the BS could become blocked if during the connection process of a CPE some messages were lost.

Log

An issue that prevented log files from being downloaded using Chrome when the device name contained a comma has been fixed.

2.3.2 BS400 Base Stations (SN A15, A20, A21, and A23) and BS800 (SN A22)

Network Interface Management

When the default policy for network interfaces was set to DROP, the radios would fail to start. If this configuration was saved, the issue would persist after device reboots.

Radio

Errors in control message processing have been fixed. These errors could cause critical processes to stop, requiring a device reboot to restore full operation.

Firmware Update

On base stations with a high number of connected users and heavy traffic loads, the firmware update process could occasionally fail to reboot the device after a successful update, requiring a manual power cycle.

Changes have been made to the final stage of the firmware update process to ensure that the device always reboots successfully.

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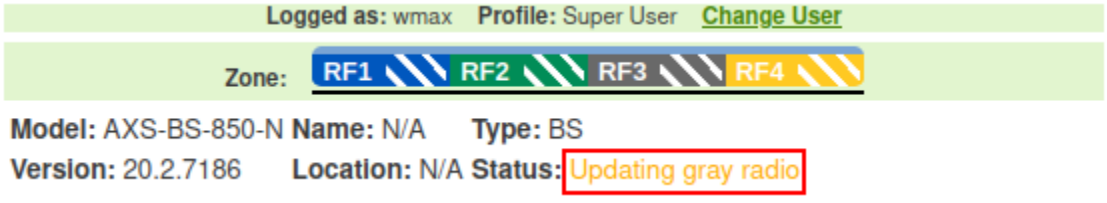
3. Important notes

3.1 IMPORTANT NOTE: Automatic radio stop during update process.

The update process will automatically stop the radio system before updating in bases AXS-BS-850 with a serial number that begins with A22; in AXS-BS-450 with a serial number beginning with A15, A20 or A21; and AXS-BS-452 with a serial number beginning with A23. Thus, there will be a service stop while the device is updating.

3.1 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