

AerDocsis System Software Software Release Notes

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1. Compatible devices and minimum versions

Product family	Devices	Minimum versions
Base Stations		
BS100	AXS-BS-150-N	HoneybeeM1 19.6.6172
BS050	AXS-BS-050-N	HoneybeeM1 19.6.6172
BS400 y BS800	AXS-BS-450-N AXS-BS-452-N AXS-BS-850-N	HoneybeeM1 19.6.6172
User Terminal		
CPE100	AXS-CPE150-RS AXS-CPE150-15	HoneybeeM1 19.6.6172
Radio Links		
LNK0	LNK-LU050-15 LNK-LU050-RS	HoneybeeM1 19.6.6172
LNK100	LNK-LU150-N LNK-LU150-23	HoneybeeM1 19.6.6172
SU1100	PRO-SU-1150-23 PRO-SU-1150-N	HoneybeeM1 19.6.6172

2. What's new in this release?

2.1 New features

2.1.1 BS100, BS400 and BS800 Base Stations

Increase in Maximum Power

The maximum transmission power of the base stations has been increased to 28 dBm. After the update, they will maintain the default limit of 23 dBm.

It will be necessary to modify it manually to exceed this power level.

For power levels above 23 dBm, the maximum 64-QAM modulation cannot be used.

Increasing the power is useful in environments where noise conditions generate a high level of interference or no longer allow direct modulation at 64-QAM, as long as it is ensured that the power increase does not exceed the legal EIRP.

SNMP

A new table has been added to the SNMP MIBs, allowing the retrieval of aggregate instantaneous traffic rates, similar to the Traffic Stats section on the web interface, under the Basic Cell Stats tab. More details can be found in section 3.1.

2.1.2 Common to all devices

Internal

Support for new product references has been added.

2.2 Improvements

2.2.1 Common to all devices

Web

Several changes have been made to the classic web interface to improve information display and facilitate interaction with the devices:

- Shutting down the radio system now requires confirmation to avoid accidental service interruptions.
- Redundant text has been removed.
- The “Location” and “Name” fields are not displayed if they contain no useful information, both in the header and in the System Info table on the Status & Alarms web page.
- The type (BS/SS) is not shown in the header if the device can only have a single value.
- The serial number is now displayed in the header.
- Action icons (add, delete, copy...) have been updated for better usability.
- The “Features” and “CA Certs” menu entries have been removed.
- The wired link status is not shown if the device is configured with autonegotiation and no link is established.
- The main page content no longer shifts under the menu when the browser window is not wide enough.
- Several data tables have been modified to prevent column widths from changing between refreshes.
- Frequency labels in the spectrum analyzer graphs used to take one value during the analysis and change when it finished. Now, only the correct value is shown once the analysis is complete.
- The tables on the Traffic Stats web page no longer display non-numeric or incorrect values when the radios are stopped.

2.2.2 BS100, BS400 and BS800 Base Stations

Web

The dropdowns on the Local AA web page that allowed the authorization or denial of CPE connections have been replaced by a single button based on the current status of each provisioned CPE or group. Interaction with these buttons will not fully refresh the

page, thus avoiding scrolling to the top, which will make provisioning configuration easier in case there are many elements in the table.

2.2.3 CPE100 User Terminals

Log

Log messages indicating a DHCP lease renewal will only be displayed if the “Log Detailed User Entry” option is enabled on the System Log web page.

2.3 Applied Solutions

2.3.1 Common to all devices

Radio disconnections

Errors in the device health monitor that could cause radio disconnections when the configured action period was too low have been fixed.

Web

Visual improvements in the classic web interface:

- The sensitivity adjustment in the spectrum analyzer now works correctly.

2.3.2 BS100 Base Stations and CPE100 User Terminals

Web

The MAC Status table on the Status & Alarms web page did not display the temperature value.

2.3.3 BS400 and BS800 Base Stations

Web

Some fully compatible SFPs were not displayed as such in the System Status table on the Status & Alarms web page, but instead appeared as third-party SFPs.

GPS

An issue affecting GPS synchronization has been fixed. It is highly recommended that users of this system update to this firmware version.

3. Appendix

3.1 SNMP: *traffStatsTable*

The new table in the MIB ALBERTIA-AS-MIB.my with OID .1.3.6.1.4.1.28087.12.10.10.9 contains information about the instantaneous traffic statistics of the zone.

The content of this table is identical to that displayed in the Basic Cell Stats tab of the bw_stats.cgi web page, specifically in Aggregated Traffic, DL Aggregated Traffic, and UL Aggregated Traffic.

The table is indexed by zone name and contains the following fields:

- **traffStZoneld**

Indexing field for the table. Represents the zone identifier ("local" in **BS100**).

- **traffStDLAggUsedPer**

Percentage of DL traffic used for this zone relative to the maximum total available traffic.

- **traffStDLAggUsedKbps**

DL traffic used for this zone in Kbps.

- **traffStDLAggFreeKbps**

Free DL traffic for this zone in Kbps.

- **traffStDLAggTotalKbps**

Maximum available DL traffic for this zone in Kbps. Represents the sum of used and free DL traffic.

- **traffStULAggUsedPer**

Percentage of UL traffic used for this zone relative to the maximum total available traffic.

- **traffStULAggUsedKbps**

UL traffic used for this zone in Kbps.

- **traffStULAggFreeKbps**

Free UL traffic for this zone in Kbps.

- **traffStULAggTotalKbps**

Maximum available UL traffic for this zone in Kbps. Represents the sum of used and free UL traffic.

- **traffStFullAggUsedPer**

Percentage of DL and UL traffic used for this zone relative to the maximum total available traffic.

- **traffStFullAggUsedKbps**

DL and UL traffic used for this zone in Kbps.

- **traffStFullAggFreeKbps**

Free DL and UL traffic for this zone in Kbps.

- **traffStFullAggTotalKbps**

Maximum available DL and UL traffic for this zone in Kbps. Represents the sum of used and free DL and UL traffic.

- **traffStFullAggFrameDiv**

Frame division percentage.