



Release Notes

ePMP, PTP-550/E

System Release 4.5



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General Information

Version Information

The following table shows the issue status of this document since it was first released:

Issue	Date of issue	System Release
01v001	April 2020	System release 4.5

ePMP/PTP550/E Release 4.5 Information

Introduction

This document provides information about the newly added features, additional enhancements, bug fixes, and known issues in system release 4.5.

Features Description

The features introduced in System Release 4.5 are as follows:

Dynamic Channel Selection

The Dynamic Channel Selection feature monitors channel traffic and noise levels for interference. If the current channel(s) quality degrades, DCS automatically switches to the better-quality channel. This feature is supported in PTP 550/E devices.

Automatic Channel Selection

The Advanced Channel Selection feature automatically selects the best available channel based on noise floor. This is good for isolated sectors, Omnis, or isolated PTP links.

Support for Dual-Horn, Omnidirectional, and Split-Sector Antennas

This release now supports Dual-Horn and Omnidirectional, and Split-sector Antennas with non-overlapping sectors.

Smart Antenna support for ePMP 3000

The ePMP 3000 now supports Smart beamforming technology. This powerful addition to your network creates narrow, targeted beams to each subscriber, rather than relying on a traditional wide beam, blocking out multiple sources of interference to keep performance high.

Support for Reliable Multicast feature

The Reliable Multicast feature allows ePMP APs to support IGMP capable devices. Once a multicast group is identified, the AP allows multicast traffic to be sent only to the SMs within the multicast group.

Support for ePMP MP3000 MicroPOP

This release supports the ePMP MP3000 MicroPop Access Point.

PPPoE Intermediate Agent

The PPPoE Intermediate Agent mechanism helps the service provider to distinguish between the end hosts connected via Ethernet as an access device (typically, home routers situated below an ePMP subscriber device).

Release 4.5 System Documentation

Provided with this release are several documents for your reference:
User Guide (to be available at official release)

Resolved Issues in 4.5

Table 1: System Release 4.5 resolved issues

Tracking	Description
ACG-5071	Fixed throughput fluctuation issue on the 10MHZ band for the PTP 550, ePMP 3000, and Force 300-19R radios.
ACG-6562	Added Dynamic Channel Selection feature to select the best available channels automatically.
ACG-5832	Added support for Omni-antenna for the ePMP 3000 radio.
ACG-5749	Added support for the Reliable Multicast feature.
ACG-4197	Added support for the Spanish language.
ACG-5167	Added support for channels up to 6100MHz, for the ePMP 3000L and the Force300-CSM radios.
ACG-7334	Added support for the Turkish language.
ACG-6624	Added support for the ePMP 3000MP MicroPOP Access Point.
ACG-7701	Added support for the ePMP 3000MP MicroPOP Access Point.
ACG-5990	Enabled support for ePTP low latency mode.
CAMBIUM-16464	The Spectrum Analyzer application has been removed from the User Interface (UI). The Spectrum Analyzer application is available as a separate download from the support website.
ACG-6749	Added support for System Log to include frequency and bandwidth details about DFS radar events to help troubleshoot DFS related issues.
ACG-6630	The System Log has been updated to provide details that are useful for debugging purposes only.
ACG-7124	The Spectrum Analyzer MAC Address database has been updated to the current IEEE OUI database.
CAMBIUM-16462	Fixed issue for when elevated devices are not able to connect to cnMaestro when the Zero Touch function is enabled on the Access Point.

Tracking	Description
ACG-6730	Fixed issue for when the Reset Stats button on the Performance page doesn't reset Soft and Hard Device Reboots counters.
CAMBIUM-16541	Fixed issue for when elevated Mikrotik devices do not display the LED indicators correctly.
CAMBIUM-16660	Fixed issue for when a restore configuration file is not applied to the device from the Tools > Backup/Restore menu in the Graphical User Interface.
CAMBIUM-16543	Fixed issue for rare Elevate XM crashes.
ACG-5841	Fixed issue for when usernames are not displayed in the System Log correctly when using a RADIUS server.
ACG-7026	Fixed rare crash issues.
ACG-6607	Fixed rare crash issues.
ACG-5095	Fixed rare crash issues.
CAMBIUM-16288	Fixed issue for when an Elevated device fails to reboot using the CLI command via Telnet.
ACG-7189	Fixed issue for when some Access Points disconnect during boot-up.
CAMBIUM-16659	Fixed issue for when spontaneous low Received Signal Strength Indicator (RSSI) indication is displayed.
CAMBIUM-16456	RADIUS Server response check performance has been improved.
ACG-6622	Spectrum Analyzer application performance has been improved.
CAMBIUM-15717	Device User Interface (UI) performance has been improved for environments with cold temperatures.
ACG-6593	Immunity to noise has been increased to improve device performance.
ACG-7411	Opened 20/40/80MHz ETSI Channels for the ePMP 3000MP Access Point.
CAMBIUM-16604	Added missing RSSI/SNR/Quality/Capacity information to Registered Subscriber Modules table on the ePTP Master Access Point.
ACG-6664	Added support for configuring ports to access SSH and Telnet.
CAMBIUM-16373	Fixed issue for when the DHCP configuration options are available even though the DHCP option is not enabled.
CAMBIUM-16657	Fixed issue for when the SKU and Software version information in the Registers Subscriber Modules is missing on the Master Access Point.
CAMBIUM-16407	Fixed issue for when the settings can't be saved due to IP Validation (IP address field is left blank) in the Separate Wireless Management Interface even if the Separate Management IP option is disabled.

Tracking	Description
CAMBIUM-16068	Fixed issue for when the Connection Attempts setting is set to “0” to display a warning message that the Subscriber Module will not reconnect due to this setting and to take appropriate action.
CAMBIUM-15437	Fixed issue for when the Throughput Chart is not using the selected time zone.
CAMBIUM-16472	The 5/10 MHz tabs in the Subscriber Module Scanning section have been removed for the Mikrotik elevated units.
CAMBIUM-16669	Fixed issue for when a PoE power supply notification message is displayed in the Graphical User Interface if a Power Supply is not recognized correctly.
CAMBIUM-16069	Fixed issue for when the User Name and Password fields are left blank preventing from saving the settings in the Point-to-point Protocol Over Ethernet (PPPoE) section.
ACG-6983	The data in the Subscriber Module Statistics table has been updated to sort the data by Percentage.
ACG-4241	Fixed issue for when the Throughput Chart is not using the selected time zone.
ACG-6613	Fixed the issue for when the DNS settings validation prevents the configuration from being deleted from the Graphical User Interface (GUI).
ACG-7282	Added support for PPPoE Intermediate Agent on ePMP 3000.
ACG-6840	Fixed an issue for when the SNMP trap is not sent after the GPS sync is re-established.
ACG-1818	Fixed an issue for when the Bridge Table is not showing all of the MAC addresses.
CAMBIUM-16938	Fixed an issue for when the DHCP Option 66 cannot be configured via the Graphical User Interface (GUI).
ACG-7560	Fixed an issue for when the Force 300 Subscriber Module clears a list of all of Access Points after connecting to an Access Point.
ACG-7049	Fixed an issue for when the Force 300 Subscriber Module is not able to associate with ePMP P3000 Access Point with LOST INAR or LOST AID reasons.
ACG-7480	Fixed an issue for when the MAC address changes on the Subscriber Module if the Data VLAN bridge setting is set to RADIUS causing intermittent connectivity issues.
CAMBIUM-16575	Fixed an issue for when the Monitor->Wireless screen displays incorrect Model Names of the connected Subscriber Modules.
ACG-7610	Fixed an issue for when the PPPoE LCP settings are not saved after the change.
ACG-7342	Fixed an issue for when the PTP 550 Access Point always using the second radio for the link test.
CAMBIUM-16358	Fixed an issue for when the Real-time throughput indicators are not available on the throughput graph.
ACG-8054	Fixed an issue for when the Spectrum analyzer does not display a side scale of the upper spectrum diagram in a full-screen mode.
ACG-8055	Fixed an issue for when the Spectrum Analyzer diagram and the Interferes diagram are not correctly aligned.

Tracking	Description
CAMBIUM-16959	Fixed an issue for when the Subscriber Module cannot be on-boarded via Zero Touch when it is set to ePTP mode.
CAMBIUM-16762	Fixed an issue for when the Subscriber Module is not able to connect to the Access Point is running at 10MHz and the maximum cell size set to 64km.
ACG-7796	Fixed an issue for when the cnArcher application can cause the device to malfunction after firmware upgrade.
CAMBIUM-16710	Fixed an issue for when the eAlign tool freezes and stops working after a few minutes.
ACG-5355	Fixed an issue for when the ePMP 1000 Subscriber Module disconnects from the ePMP 3000 Access Point when the Guard Interval setting is set to Long.
CAMBIUM-15923	Fixed an issue for when the ePMP 1000 radio is not able to connect on distances beyond 10km.
CAMBIUM-16900	Fixed an issue for when the ePMP 2000 Access Point doesn't reboot after upgrading the GPS firmware.
ACG-7452	Fixed an issue for when the ePMP 3000 Access Point disconnects all Subscriber Modules when the spectrum analyzer tool is enabled.
ACG-7117	Fixed an issue for when the ePMP 3000 Access Point displays more than 100% of re-transmissions on the Monitor > Performance screen.
ACG-7052	Fixed an issue for when the ePMP 3000 Access Point and the Force 300 Subscriber Module expose incorrect IP address via MNDP.
ACG-8040	Fixed an issue for when the ePMP 3000 Access Point returns multiple WLAN interfaces via SNMPWalk.
ACG-6302	Fixed an issue for when the ePMP 3000 Access Point experiences packet losses on the SFP port.
ACG-8235	Fixed an issue for when unicast packets with unknown MAC addresses, cannot be configured via the Graphical User Interface (GUI).
ACG-5320	Fixed an issue for when you are not able to access the Access Point using MAC-telnet after changing the MTU size.
CAMBIUM-16869	Fixed an issue where some SXT Lite5 Elevate devices are not able to detect Access Points.
CAMBIUM-16783	Fixed issue for when the Graphical User Interface stops working on Elevate Bullet M2/M5.
CAMBIUM-16843	Fixed issue for when a Subscriber Module intermittently reboots when the radio connection is established.
ACG-8014	Fixed issue for when the ePMP3000L Access Point resets the GPS chip when only the GLONASS satellites are tracked.
ACG-7638	Fixed issue for where the "show wireless" CLI command doesn't work on the ePMP 3000 Access Point and the Force 300 Subscriber Module.
CAMBIUM-15846	Fixed issue where a Subscriber Module intermittently crashes when the Channel Bandwidth is set to 40MHz channel and the Downlink/Uplink option is set to 30/70 TDD ratio.
ACG-8093	Fixed issues where certain driver modes (AP, ePTP, Master, etc.) are not available in the Access Points and Subscribe Modules User Interfaces.

Tracking	Description
ACG-7170	The PPPoE mode functionality has been updated to provide stability for UDP traffic sessions.
CAMBIUM-16200	The PPPoE re-connection time has been improved for elevated devices.
ACG-6701	The Web User Interface has been updated to display channel frequencies in ascending order.
CAMBIUM-16218	The Web User Interface has been updated to not display the "Unicast packets with unknown MAC address" parameter in the TDD PTP mode.
CAMBIUM-17011	The Web User Interface has been updated to not display the "Unicast packets with unknown MAC address" parameter in the TDD PTP mode.
ACG-7784	The cambiumSTADownlinkMCSTMode OID MIB description has been updated to provide correct values.
ACG-4694	The cnDiscovery chart has been improved to display older interferes with increased transparency on the Spectrum Analyzer interferes chart.
ACG-7067	The cnMaestro application now has additional certificates selections and an option to upload certificates for on-premise installations.
ACG-6992	The ePMP 3000 Access Point will now display the Ethernet interface speed as bps instead of Mbps via SNMP.
CAMBIUM-16862	The regulatory database has been updated for Argentina and Poland country codes.
ACG-7028	Uplink throughput has been improved.

Specifications

Feedback

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