

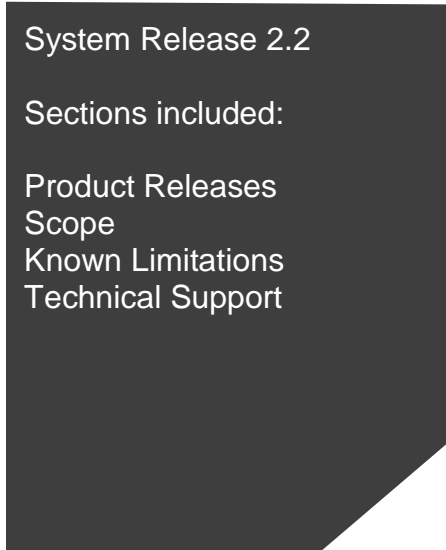
ePMP™

Release Notes

System Release 2.2

Sections included:

- Product Releases
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Introduction

This document provides information for the Cambium Networks ePMP Series System Release 2.2.

The information in this document is subject to change without notice. The recommendations, technical data, configurations and statements in this document are believed to be reliable and accurate, but are presented without implied or express warranty. Users must take full responsibility for their applications of any product specified in this document. The information in this document is proprietary to Cambium Networks Ltd.

Product Releases

Hardware

The following table provides the key components available for purchase:

Model Number	Description
C050900A011A	ePMP 1000: 5 GHz Connectorized Radio with Sync (ROW)
C050900A013A	ePMP 1000: 5 GHz Connectorized Radio with Sync (EU)
C058900A112A	ePMP 1000: 5 GHz Connectorized Radio with Sync (FCC)
C050900A021A	ePMP 1000: 5 GHz Connectorized Radio (ROW)
C050900A023A	ePMP 1000: 5 GHz Connectorized Radio (EU)
C058900A122A	ePMP 1000: 5 GHz Connectorized Radio (FCC)
C050900C031A	ePMP 1000: 5 GHz Integrated Radio (ROW)
C050900C033A	ePMP 1000: 5 GHz Integrated Radio (EU)
C058900C132A	ePMP 1000: 5 GHz Integrated Radio (FCC)
C050900D002A	ePMP 1000: 5 GHz Sector Antenna - 120°
C050900D003A	ePMP 1000: 5 GHz Sector Antenna - 90°
C024900A011A	ePMP 1000: 2.4 GHz Connectorized Radio with Sync
C024900A021A	ePMP 1000: 2.4 GHz Connectorized Radio
C024900C031A	ePMP 1000: 2.4 GHz Integrated Radio
C024900D004A	ePMP 1000: 2.4 GHz Sector Antenna - 90° / 120°
N000900L001A	ePMP 1000: Spare Power Supply for Radio with Gigabit Ethernet (no cord)
N000900L002A	ePMP 1000: Spare Power Supply for Radio with 100Mbit Ethernet (no cord)
N000900L005A	ePMP 1000: Spare GPS Antenna

Embedded Software

SPECIAL SOFTWARE UPGRADE NOTICE

All users of ePMP product are encouraged to upgrade the Connectorized Radio with Sync, Integrated Radio and Connectorized Radio units to the latest System Release 2.2. ePMP software updates can be downloaded from the [Cambium Support website](#). For instructions on upgrading an ePMP device, see the *ePMP User Guide*.



Note

While upgrading a **Connectorized Radio with Sync** from the factory, ensure both the device software banks are updated. Upgrade to the latest software **TWICE** so that both Active & Backup are updated. This is NOT required for Integrated or Connectorized Radios since these radios do not have two software banks.

While upgrading devices with System Release 1.0.3 or earlier, ensure that the browser cache is cleared prior to the upgrade.

UPGRADING THE ON-BOARD GPS CHIP FIRMWARE

Beginning with System Release 2.0, users can upgrade the firmware of the on-board GPS chip present on the **Connectorized Radio with Sync**. All users are strongly encouraged to upgrade the on-board GPS chip in order to avoid sporadic lock up of the chip during normal operation. ePMP software updates can be downloaded from the [Cambium support website](#). For instructions on upgrading the GPS chip, see below or refer the *ePMP User Guide*.

To upgrade the on-board GPS chip on a Connectorized Radio with Sync:

1. Navigate to **Monitor => GPS** to check the **GPS Firmware Version** that is currently present on the radio.
2. If the GPS Firmware Version displays **AXN_1.51_2838**, do nothing. The on-board GPS chip already has the latest firmware.
3. If the GPS Firmware Version displays **AXN_1.51_2801**, navigate to **Tools => Software Upgrade** page.
4. Under the **GPS Firmware** upgrade section, select the same package used to upgrade the device's firmware ex: **ePMP-GPS_Synced-v2.2.tar.gz**.
5. Click the **Upgrade** button.
6. The upgrade can take up to 3 minutes. Once the upgrade is done, the radio's UI prompts for a reboot and the reboot button will be highlighted.
7. Click the Reboot button on the top right corner of the UI.
8. Once the radio has completed its reboot process, check under the **Monitor => GPS** page to ensure that the **GPS Firmware Version** displays **AXN_1.51_2838**.



Note

On occasion the **GPS Firmware Version** under **Monitor => Tools** may display NA. This means that the GPS chip has already locked up and is no longer communicating with the main processor. Perform a hard reboot (power cycle the entire unit) to restore communication. Then perform steps 3 through 8 above.

This is NOT required for Integrated or Connectorized Radios since these radios do not have an on-board GPS chip.

NEW LOCAL IP

Prior to System Release 2.1, in both Bridge and NAT mode, the ePMP Device was previously accessible through a local IP of 10.1.1.254 through the LAN port. Beginning with System Release 2.1, the local IP has been updated to **169.254.1.1(/16)**.

EPMP POST-UPGRADE IP ADDRESSING

If **Device IP address Mode** is set to **DHCP** and the device is unable to retrieve IP address information via DHCP, the device management IP is set to fallback IP of *192.168.0.1* (AP mode), *192.168.0.2* (SM mode), *192.168.0.3* (Spectrum Analyzer mode) or a previously configured static Device IP Address. Units can always be accessed via the Ethernet port with a local IP of *169.254.1.1*.

SPECTRUM ANALYZER ON SM WHEN USING PORT FORWARDING OR DMZ

If port forwarding or DMZ is enabled on the SM, it is necessary to add a port forwarding entry for the Spectrum Analyzer to work. The Spectrum Analyzer uses port 8001 and this must be explicitly added in the port forwarding table under **Configure->Network->NAT->Advanced**, on the radio's GUI. In addition, once the Spectrum Analyzer is launched on the client PC, select the Port Forwarding IP as the device IP address under **Tools->Preferences**, on the Spectrum Analyzer Java tool. Depending on the network configuration, the generation configuration scheme must be **Client PC => Port_Forwarding_IP:8001 => Device_IP:8001**.

SPECTRUM ANALYZER WHEN MANAGEMENT VLAN IS ENABLED

When Management VLAN is enabled on the ePMP radio, the Spectrum Analyzer client must be launched from the same network as the Management VLAN.

RELEASE SOFTWARE

The following software update is provided with ePMP System Release 2.2:

Device Description	Applicable Software Package
Connectorized Radio with Sync	ePMP-GPS_Synced-v2.2.tar.gz
Integrated Radio / Connectorized Radio	ePMP-NonGPS_Synced-v2.2.tar.gz

When available, new ePMP software releases may be downloaded from:

<https://support.cambiumnetworks.com/files/epmp>.

Cambium Networks Services Server (CNSS)

CNSS may be used to upgrade, manage and monitor ePMP systems. For more information, see

<https://support.cambiumnetworks.com/files/cnss>

Scope

System Release 2.2 adds the following:

- eFortify Enhancements – Improved Rate Adapt Algorithm for interference rich environments
 - Improved throughput at low C/I conditions
 - Improved VoIP performance
 - MIMO-A modulation support (MCS 7 through MCS 2)
- eCommand Enhancements
 - VLAN mapping on the SM
 - Limiting Quantity of Learnt MAC Addresses
 - NAS-Identifier included in the RADIUS Access Request message from AP
- General bug fixes

Known problems or limitations (System Release 2.2)

Tracking	Description / Workaround
7088	It is recommended to save the configuration right after deleting an L3 ACL rule. If before saving the configuration, a new ACL rule is added or existing rule is modified, it may result in a corrupted configuration of the rules.
7083	If an SM is configured to obtain an IP through DHCP, then if the SM is configured to Spectrum Analyzer mode, the device will attempt to obtain an IP address from a DHCP server through the LAN side. If there are no DHCP servers available, the device will fall back to its default Spectrum Analyzer IP of 192.168.0.3. This is not an issue if the SM was configured with a static IP address.
7064	When an SM is scanning for APs, even if the scan bandwidth is set to 20MHz, the Home screen on the GUI displays 40MHz under Operating Channel Bandwidth. This is simply a GUI display error. In reality, the SM is indeed scanning 20 MHz channels.
7038	After an AP or SM is configured to Spectrum Analyzer mode, parameters that don't apply to AP or SM mode respectively are displayed. The incorrect display of the fields does not have any impact on the normal operation of the system.

Known problems or limitations (System Release 2.1)

Tracking	Description / Workaround
7113	When the SM IP is set to 172.16.252.0/21 address space, then the SM GUI is not accessible using Firefox (Mozilla) browser. Workaround is to use a different browser (ex: Internet Explorer, Google Chrome or Apple Safari).
7101	On rare occasion, cambiumpmp80211SMRegTrap(1.3.6.1.4.1.17713.21.0.11) may cause a trap flood. Workaround is to reboot the AP to stop the flood. (Resolved in 2.2)
7032	When the SessionTime OID (.3.6.1.4.1.17713.21.1.2.20.1.12.1) on the SM is polled through SNMP, it does not update unless the GUI of the SM is open. (Resolved in 2.2)
6919 6918	When ACS is run multiple times in a row (under Tools->Automatic Channel Selection), the ACS graph may display a primary frequency different from the frequency at which the radio is operating on. It may also show the scale on the X-axis incorrectly (40MHz instead of 20MHz). Refresh the browser screen (F5 in MS Windows) to get the correct chart for the last ACS run on that page.
6916	After running ACS on a 40MHz channel, the primary frequency displayed on the ACS chart (under Tools->Automatic Channel Selection) will be offset from the operating frequency of the radio by 10MHz. There is no workaround and there is no impact on the normal operation of the radio. This is an ACS chart display issue. (Resolved in 2.2)
6915	When adding preferred APs on the SM under Configuration->Radio, the WPA2 PSK field is not highlighted as a required field. Please ensure you fill in the WPA2 key to allow the GUI to save the changes.
6913 6626	Using 'snmpget' to obtain SNR values from the device returns an error. Workaround is to use 'snmpbulkget' or 'snmpwalk' to obtain the OID values and parse for specific OIDs. (Resolved in 2.2)

Tracking	Description / Workaround
6872	On occasion, when both ACS and Carrier Sense (under Configuration->Radio) are enabled, some SMs may not register to the AP. Workaround is to disable ACS or Carrier Sense. (Resolved in 2.2)
6847	When the AP SSID is 32 characters long, the entire SSID is not displayed on the AP's GUI Home page.
6801	When an ETSI license key is applied to an ePMP 5GHz ETSI locked radio, it may come up with "Generic ETSI" as country code. Perform a second reboot of the radio to load the license key.
6772	After selecting text in a text box on the UI, it is not possible to replace it with new text by typing over it; it instead appends the new text. The original text has to be deleted first before entering in the new text.
6650 6564 6562	After a configuration file is backed up, it is possible to change the file to include invalid scan frequencies and empty MIR entries. Do not configure empty or invalid entries in the configuration file before importing back into the radio. (Resolved in 2.2)
6539	On occasion, when eDetect is run from the AP, the UI will appear to be stuck in "Running" state beyond the time configured for Detection Duration. Refresh the browser for the UI to display the correct state. (Resolved in 2.2)
6407	When a new user logs into the radio UI, notifications for the previously logged in user is visible. Workaround is to clear all notifications before logging out of the radio's UI.
5677	When logged in using "Home" user account, only the Monitor menu is available and the home user cannot change any configuration. Workaround is to use admin or installer account. (Resolved in 2.2)

Known problems or limitations (System Release 2.0.2)

Tracking	Description / Workaround
6901	On occasion, when using SNMP to monitor the Tx/Rx bytes, the device stops updating the counters after a few hours. Workaround is to reboot the device. (Resolved in 2.1)
6752	On the SM, when all 20MHz and 40MHz frequencies in the scan list are selected and saved, the GUI returns an error and the save is unsuccessful. (Resolved in 2.1)
6444	After altering the order of the APs in the Preferred APs list (under Configuration->Radio), then saving this configuration results in a failed save. (Resolved in 2.1)

Known problems or limitations (System Release 2.0.1)

Tracking	Description / Workaround
6636	For certain ETSI countries, the EIRP limit for 5.8GHz is not enforced. (Resolved in 2.0.2)

Tracking	Description / Workaround
6558	An Integrated/Connectorized Radio used as AP may crash when more than 40 SMs are registered to in a high interference environment. (Resolved in 2.0.2)
6509	When country code is set to Germany and using 40 MHz channel bandwidth, it is not possible to configure 5855 MHz at a DFS alternate frequency (Resolved in 2.0.2)
6283	On Connectorized Radio with Sync, when GigE is configured then sporadic packet loss may be seen when the Ethernet cable length is longer than 45 meters. (Resolved in 2.0.2)

Known problems or limitations (System Release 2.0)

Tracking	Description / Workaround
6311	On 2.4GHz radios, operator cannot set country code other than United States/FCC (Resolved in 2.0.1)
6245	When configuring L2 firewall rules and non-numeric values are used for setting the "EtherType" rule, the UI will not display the rule value. However, the rule is set on the radio and will work normally. (Resolved in 2.1)
6117	When a device's configuration is backed up and modifications are made to the Radius Server table, only the first table entry is validated when the modified configuration is restored onto a device. Care must be taken to enter valid entries into the Radius Server table when modifying the device configuration file (.json format). (Resolved in 2.1)
6101	On ETSI radios, if an invalid license key is entered, the radio will reset to factory default settings. Care must be taken to enter the exact key string obtained from Cambium licensing web-site and avoid modifying the license key before entering into the radio.
5956	When 16 or more L2 ACL rules are configured and full syslog is enabled and the radio is overloaded with small packets of size less than 30 bytes, it may cause of reboot. The radio will recover by itself after the reboot. (Resolved in 2.1)
5798	On occasion, upon launching the UI of the radio in a browser, a red icon may appear on the "Configure" menu button indicating incorrect configuration. The icon will disappear on its own within 3 seconds. (Resolved in 2.1)
5018	On rare occasion, when using Radius and the SM is under poor RF conditions, re-authentication may fail. A device reboot may be required to perform Network Entry again.

Known problems or limitations (System Release 1.4.3/1.4.4)

Tracking	Description / Workaround
5845	When configuring a DMZ IP address on a subnet different from the Device LAN IP address subnet, a reboot of the radio is required for the changes to take effect. (Resolved in 2.0)
5664	When more than 150 membership VLANs are configured on the ePMP SM, there may be a degradation in throughput on that SM. (Resolved in 2.1)

Tracking	Description / Workaround
5467	Packet Byte counters under the Monitor->Performance page, are 32 bit instead of 64-bit. (Resolved in 2.0)
4948	During the first 2 minutes after an AP boot up or restart of wireless interface (when changing radio parameters such as Tx power, Center Frequency etc.), the Throughput Test tool will provide poor results on DL. Throughput Test will perform normally after this 2 minute period. (Resolved in 2.0)

Known problems or limitations (System Release 1.4.1)

Tracking	Description / Workaround
5762	The antenna gain parameter of the 2.4 GHz Integrated module is locked at 13 dBi while it must be 11 dBi. (Resolved in 1.4.3)
5751 5746	When running a Throughput Test (Tools => Throughput Test) under high interference conditions, the SM disconnects. (Resolved in 1.4.3)

Known problems or limitations (System Release 1.4.0)

Tracking	Description / Workaround
5933	FCC countries are limited to 13dBm of Max Tx power instead of 14dBm (Resolved in 1.4.4)
5848	Using power reset sequence or reset button to default the radio does not work after the first time. (Resolved in 1.4.4)
5683	On ePMP radios programmed for EU region, two reboots are required when switching device mode from AP to SM.
5672	On ePMP radios programmed for EU region, when NAT mode is enabled on the SM, there is no management access to the SM from the AP. This does not impact user traffic through the link. (Resolved in 1.4.1)
5671	On rare occasion, after an upgrade from Release 1.3.4 to Release 1.4.0, the Country Code setting is not carried over and no channels are available for selection. (Resolved in 1.4.1)
5670	A password change for management user accounts does not get applied and the radio falls back to the default password. (Resolved in 1.4.1)
5509	With 25 or more SMs registered to the AP, GUI access to the AP will be slower than normal. This does not impact normal operation of the radio and there is no impact to user traffic in the sector. (Resolved in 2.0)
5621	Trace route tool does provide any indication on the GUI when a different subnet is unreachable. (Resolved in 2.0)
5543	In Spectrum Analyzer mode, some greyed out fields can still be configured. These fields are meant to be read-only so the user must not modify them when device mode is SA. (Resolved in 2.0)

Known problems or limitations (System Release 1.3.4)

Tracking	Description / Workaround
4948	Spectrum Analyzer has small range of frequencies that cannot be scanned (5720-5730 MHz). This is seen only if you manually configure a scan range. (Resolved in 1.4.0)

Tracking	Description / Workaround
4598	VoIP priority cannot be assigned to user defined QoS profiles. This does not impact assigning VoIP priority to the overall system. (Resolved in 1.4.0)

Known problems or limitations (System Release 1.2.3)

Tracking	Description / Workaround
4538	When SM is set to NAT and local DHCP server is enabled, it is possible to provide a start and end IP address for the DHCP pool that is outside the IP address/mask of the LAN interface. Please verify that the start and end IP addresses are valid for the DHCP mask when configuring the local DHCP server. (Resolved in 2.0)
4582	Only one DNS server can be configured on the ePMP radio. Configuration of a secondary DNS server is not currently supported. (Resolved in 1.3.4)
4698	When entering a MIR profile, make sure a profile number is configured with it. It is possible to configure a profile without a profile number and this profile will not be usable in the system. (Resolved in 1.3.4)
4189	Configuring alternate DFS frequency is possible on a non-DFS (5.7GHz) band. This has no impact on the system operation.
4705	The DL RSSI level reported at the AP (Monitor->Wireless Status) is an estimated value. For accuracy, use the DL RSSI reported at the SM.

Known problems or limitations (System Release 1.1.7)

Tracking	Description / Workaround
4125	When ePMP is set to receive 1PPS pulse from the onboard GPS, on rare occasions, it may stop generating pulses and the AP will stop transmitting. A power reboot of the radio will recover normal operation. (Resolved in 2.0)
4460	When Membership VLAN and Data VLAN are enabled on the SM, traffic coming into the SM Ethernet port on the Membership VLAN will have the Data VLAN tag applied to it. Workaround is to configure only Membership VLAN or Data VLAN, not both. (Resolved in 2.1)
4471	When Data and Management VLANs are enabled, VLAN priority is not honored. (Resolved in 1.2.3)
4516	Special characters in SNMP community string may cause the GUI to be inaccessible. Workaround is to power reboot the radio and change SNMP community string using only alphabets. (Resolved in 1.2.3)
4364	The Integrated ePMP incorrectly displays GPS capability on the GUI when set to AP mode . (Resolved in 1.2.3)
4415	DMZ cannot be in the same subnet as the LAN interface. (Resolved in 1.2.3)
4506	When SM is connected to a DHCP server on the LAN side, upon boot up, it may obtain an IP via DHCP. (Resolved in 1.2.3)
4505	When VLAN is enabled on the SM , VoIP priority is not honored inside the VLAN subnet. (Resolved in 1.2.3)
4509	Port forwarding will not be functional when VLAN is enabled on the SM . (Resolved in 1.2.3)

Tracking	Description / Workaround
4377	After changing the WAN IP address, the browser does not automatically connect to the new WAN IP address when accessing the GUI over-the-air . Refreshing or reloading the browser resolves the issue. (Resolved in 1.2.3)
4421	GUI incorrectly displays capability to download Spectrum Analyzer tool when the radio is not in Spectrum Analyzer (SA) mode. (Resolved in 1.2.3)

Known problems or limitations (System Release 1.1.6)

Tracking	Description / Workaround
3892 4102	When launching the web GUI for the first time on a ePMP radio, (after an upgrade or reboot or simply for the first time on a currently active radio), the GUI may display blank entries for previously configured fields. As a result, red error text may be displayed on the GUI. If this happens, refresh the browser or clear browser cache to restore fields' configured values. (Resolved in 1.4.0)
2680	The Layer 2 Firewall Table rules function when SM Network Mode is set to Bridge only. (Resolved in 1.3.4)
3301	The Layer 3 Firewall Table rules function when SM Network Mode is set to NAT only. (Resolved in 1.3.4)
4040 3628 4158 4159	Throughput Test results displayed in the web management interface may be inaccurate. For the most accurate device Throughput Test results, perform the tests via SNMP (instead of the web management interface). (Resolved in 1.4.0)
3624	The ePMP Spectrum Analyzer may display incorrect readings at the edge of the configured scanning band (frequencies 5180, 5240, 5260, 5320, 5500, 5600, 5700, 5745, 5825, and 5860 MHz). (Resolved in 1.3.4)
3634	The ePMP Spectrum Analyzer averaging results may display higher values than what was scanned. (Resolved in 1.3.4)
2868	ePMP device time settings must be retrieved via NTP server – currently the date and time cannot be configured manually.
3740 4238 4286	The ePMP device web GUI can take several seconds to save changes. Multiple parameters (in multiple sections of the web interface) may be modified prior to saving to avoid multiple wait times. (Resolved in 1.4.0)
3627	Device throughput tests must be initiated on the near end of the link (local) and not on the remote side of the link. (Resolved in 1.4.0)
4132	Ensure that valid syslog server IP addresses are configured. An unreachable syslog server target may cause the ePMP device to become inaccessible.
3581	When the SM is in NAT mode, ensure that the Ethernet (LAN) IP address mode is set to Static , not DHCP . (Resolved in 2.0)
4265	On rare occasions, the front end GUI loses connection to the radio. The GUI refreshes automatically after a few seconds and recovers. If not, a reload or refresh of the browser will resolve the issue. (Resolved in 2.0)
4302	When the SM has inherited an ETSI region code from the AP, the SM may report an incorrect DFS Status . (Resolved in 1.3.4)
4326	If a device software upgrade fails due to "Unpack failed", restart the upgrade procedure. (Resolved in 1.3.4)

Tracking	Description / Workaround
4329 4301	Following a device reboot, if the GUI does not return to the home screen, reload the GUI in the browser. (Resolved in 1.4.4)
4316	Currently the ePMP Throughput Test is only capable of testing up to 100 Mbps. (Resolved in 1.4.0)
4317	During a Throughput Test on the web GUI, if a browser timeout occurs, reinitiate the Throughput Test. (Resolved in 1.4.0)
4337	Throughput Test may not be run while the SM is configured in NAT mode. (Resolved in 1.4.0)
4310	With MIR enabled, minor fluctuations in TCP downlink and uplink traffic may be observed. (Resolved in 2.2)
4334 4335 4339	If a device firewall rule is added with Action set to Deny and Interface set to LAN or WAN and no other rule attribute are configured, the device will drop all Ethernet or wireless traffic, respectively. Ensure that all firewall rules are specific to the type of traffic which must be denied, and that no rules exist in the devices with only Action set to Deny and Interface set to LAN or WAN . To regain access to the device, perform a factory default. (Resolved in 1.2.3)
4327	After upgrading from v1.0.3 to v1.1.6 and rebooting, the Reboot icon may remain highlighted. An additional radio reboot will remove this reboot-required icon highlighting. (Resolved in 1.2.3)
4134	A loss in 1PPS synchronization pulse is not currently reported via SNMP or syslog. To verify if GPS 1PPS synchronization pulse is lost, check the AP web GUI GPS icon (located in the top status bar). (Resolved in 1.2.3)
3907	If the SM scan list has no frequencies checked and the SM registers to an AP, the frequency in use will not be automatically highlighted in the SM scan list. Reference the frequency in use on the SM GUI dashboard and under Monitor, Wireless Status . (Resolved in 1.2.3)
3853	Currently there is no mechanism on the web management interface to reset device statistics. To reset statistics counters, the radio must be reset. (Resolved in 1.2.3)
3633	If the ePMP Spectrum Analyzer scans for more than 8 hours, the ePMP device may require a reset to regain device access. (Resolved in 1.2.3)
4034	After upgrading to v1.1.6, it is recommended to reselect System Log Mask options then Save to refresh the device syslog configuration. (Resolved in 1.2.3)
4185 4187	Currently one web management interface session may be active on the device at a time. (Resolved in 1.2.3)
4142	When configuring the SM as a DHCP server, ensure that the start and end IP addresses represent a contiguous range (i.e. the start IP address is not less than the end IP address). (Resolved in 1.2.3)
4273	When an AP and SM have mismatched Pre-Shared Keys, the SM's Available AP List column Network Entry State may incorrectly report "Success". (Resolved in 1.2.3)
4324	After a device is set to factory defaults, ensure that the CMM is properly connected to the device prior to setting Synchronization Source to CMM . If the CMM is not providing sync to the AP (via the Ethernet power port), the device may exhibit a reboot. (Resolved in 1.2.3)
4322	ePMP networks operating with 40 MHz channel bandwidth under full load with greater than 24 SMs registered may experience SM reregistration. (Resolved in 1.2.3)

Tracking	Description / Workaround
4343	The SM Available AP List may report Success for more than one AP in the Network Entry State column. In this case, verify the AP to which the SM is connected via the Connected AP status on the SM dashboard or on the SM's Wireless Status page. (Resolved in 1.2.3)
4299	When changing the AP's Frequency Carrier , the DFS Alternate Frequency Carrier 1 and DFS Alternate Frequency Carrier 2 may need to be reconfigured/resaved. (Resolved in 1.2.3)
4341	After modifying the device Channel Bandwidth and clicking Save , the Save and Undo icons may remain highlighted although the parameters have been successfully committed to the device. Refresh the browser to remove the highlighting. (Resolved in 1.2.3)
4333	After changing the SM Network Mode from NAT to Bridge , the resulting notification message regarding IP changes reverses the LAN and WAN information. (Resolved in 1.2.3)

Technical Support

For technical support, see

<http://www.cambiumnetworks.com/support/epmp>

For PMP technical support helpdesk phone numbers, see

<http://www.cambiumnetworks.com/support/contact-support>