

System Release 1.0

Sections included:

- Supported Platforms
- Supported Features
- Conversion from ePMP 1000 Point-To-Multipoint Firmware
- Known Limitations



Introduction

This document provides information for the Cambium Networks ePMP 1000 Hotspot System Release 1.0.

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September 2015



Supported Platforms

The FCC, EU and ROW versions of ePMP 1000 Hotspot (connectorized SM radios) are supported.

The following table provides details on the supported base units:

| Base Unit | Description |
|--------------|--|
| C050900A021A | ePMP 1000 hotspot (ROW, no cord) 802.11n 5 GHz Single Band WLAN access point |
| C050900A023A | ePMP 1000 hotspot (EU) 802.11n 5 GHz Single Band WLAN access point |
| C058900A122A | ePMP 1000 hotspot (FCC) 802.11n 5 GHz Single Band WLAN access point |
| C050900A221A | ePMP 1000 hotspot (ROW, EU Cord) 802.11n 5 GHz Single Band WLAN access point |
| C024900A021A | ePMP 1000 hotspot (US cord) 802.11n 2.4 GHz Single Band WLAN access point |
| C024900A221A | ePMP 1000 hotspot (EU cord) 802.11n 2.4 GHz Single Band WLAN access point |
| C058900B052A | ePMP Force 110 PTP - High Performance PTP Radio (FCC) |
| C050900B053A | ePMP Force 110 PTP - High Performance PTP Radio (EU) |
| C050900B051A | ePMP Force 110 PTP - High Performance PTP Radio (ROW) |

Features Supported in this Release

The following table lists the features that are supported in this release of ePMP 1000 Hotspot:

| Feature | |
|----------------|---|
| | 8 Wireless LANs |
| Capacity | 128 Clients |
| Security | Open |
| | WPA-PSK, WPA2-PSK (Pre-shared Keys) |
| | WPA-Enterprise, WPA2-Enterprise (802.1x with EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-SIM, EAP-AKA) |
| | MAC Authentication (Static list, RADIUS based) |
| Client Traffic | Rate limit upstream and downstream per-client, per-WLAN |
| Management | Scheduled WLAN access (time-based SSID) |
| | VLAN trunking support (Static VLAN, RADIUS assigned VLAN) |
| | Access Control Lists (IP and MAC based ACLs) |
| | DNS based Access Control (DNS based whitelist, blacklist) |
| Guest Access | Captive portal splash pages |
| | Multiple authentication options (click-through, RADIUS) |
| | WISPr interoperable |

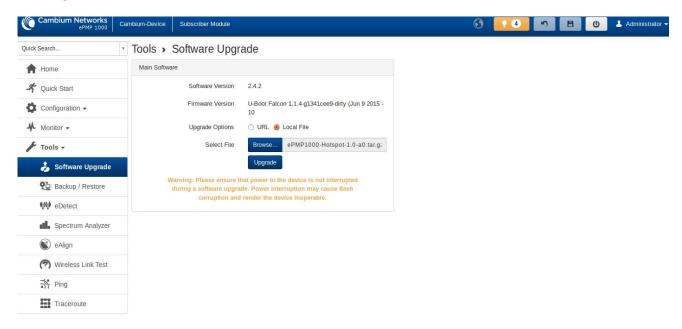
September 2015



| | Walled Garden Support |
|-------------------------------------|---|
| Wired bridging and routing services | NAT, port forwardingDHCP Server |
| | DNS proxy server |
| | Firewall, DoS attack prevention |
| Troubleshooting | Connectivity test tools (ping, traceroute) |
| Tools | Packet Capture for traffic analysis |
| | WiFi Analyzer for radio/802.11 analysis |
| Management | Support for cnMaestro cloud based onboarding |
| | Enterprise class CLI accessible over Telnet and SSH |
| | On-Device GUI (http, https) |
| | SNMP v2c, v3 based monitoring |

Conversion from ePMP 1000 Point-To-Multipoint Firmware

The ePMP 1000 firmware upgrade mechanisms such as pointing to upgrade file from the GUI can be used to convert it to ePMP 1000 Hotspot. Instead of an ePMP 1000 firmware, just point it to the ePMP1000-Hotspot-1.0.tar.gz firmware file.





The upgrade is only supported from ePMP version 2.4 onwards. If your ePMP is running an older version, please upgrade to 2.4 ePMP firmware first, reboot, and from the 2.4 ePMP firmware upgrade to the Hotspot version.

September 2015 4



After the firmware upgrade when you reboot the AP it will come up with ePMP Hotspot firmware.

Known Issues (System Release 1.0)

This section lists the known issues and limitations in ePMP 1000 Hotspot 1.0.

| Tracking | Description / Workaround |
|----------|--|
| 648 | The status of the device is displayed as connected in the show management command even though the device is disconnected. The device is not trying to reconnect to cnMaestro. |
| 643 | The packet capture does not indicate cnMaestro the proper output after a timeout of 60 seconds when the packet count is 100. |
| 632 | During bi-directional traffic test, Ethernet drops Rx packets exponentially as traffic speed increases above 45 Mbps in each direction. As a result, less throughput value is observed when the traffic is bi-directional. |
| 608 | There is no option for configuring rate limit to individual client. |
| 594 | Ping with buffer size greater than 90 is not giving any output in cnMaestro for ePMP 1000 Hotspot. In addition, the ping with maximum buffer size and packet size are also not working. |
| 550 | The UI application is not supported in mobiles, tabs etc. |
| 464 | The DHCP options are not displayed properly in the UI. There is no option for configuring DHCP IP Pool or DHCP relay options. |
| 445 | WLAN scheduling with boundary conditions are not supported in the device. |
| 317 | In some cases, the AP does not fall back to static IP on factory reset. |

Limitations

- FCC DFS channels are currently disabled. This will be enabled in a future software release.
- cnMaestro onboarding and firmware upgrade is supported. Complete support for enabling statistics after upgrade through cnMaestro will be available in a future release.
- MSN based onboarding into cnMaestro is not supported. You need to configure Cambium-ID and Password.

September 2015 5



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

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September 2015 6