Cambium Networks

cnPilot™ Enterprise AP Release Notes

ePMP1000 Hotspot, cnPilot E400, cnPilot E500

System Release 3.1

Sections Included:

- Supported Platforms
- Supported Features
- Problems Corrected
- Known Limitations
- Technical Support

Introduction

This document provides information for the Cambium Networks ePMP 1000/cnPilot Enterprise AP system release 3.1.

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Supported Platforms

The following table provides details on the supported platforms:

Model #/HVIN	Part #	Description
C000100P400A	C000100W400A	cnPilot E400 (FCC) 802.11ac dual band concurrent Enterprise class ceiling mount access point with PoE injector with cord and CAT5 Ethernet cable
C000100P401A	C000100W401A	cnPilot E400 (EU) 802.11ac dual band concurrent Enterprise class ceiling mount access point with PoE injector with Cord and CAT5 Ethernet cable
C000100P402A	C000100W402A	cnPilot E400 (AUS, NZ) 802.11ac dual band concurrent Enterprise class ceiling mount access point with PoE injector and CAT5 Ethernet cable
C000100P403A	C000100W403A	cnPilot E400 (BR) 802.11ac dual band concurrent Enterprise class ceiling mount access point with PoE injector and CAT5 Ethernet cable
C000100P404A	C000100W404A	cnPilot E400 (ROW) 802.11ac dual band concurrent Enterprise class ceiling mount access point with PoE injector and CAT5 Ethernet cable. No Country Cord
C050900A021A	C005095H021A	ePMP 1000 hotspot (ROW, no cord) 802.11n 5 GHz Single Band WLAN access point
C050900A023A	C005095H023A	ePMP 1000 hotspot (EU) 802.11n 5 GHz Single Band WLAN access point
C058900A122A	C005095H122A	ePMP 1000 hotspot (FCC) 802.11n 5 GHz Single Band WLAN access point
C050900A221A	C005095H221A	ePMP 1000 hotspot (ROW, EU Cord) 802.11n 5 GHz Single Band WLAN access point
C024900A021A	C024095H021A	ePMP 1000 hotspot (US cord) 802.11n 2.4 GHz Single Band WLAN access point
C024900A221A	C024095H221A	ePMP 1000 hotspot (EU cord) 802.11n 2.4 GHz Single Band WLAN access point
cnPilot E500 Outdoor	PL-E500INTA-US	E500 (FCC) Outdoor 2x2 Integrated Gigabit 11ac access point with PoE Injector
cnPilot E500 Outdoor	PL-E500INTA-EU	E500 (EU) Outdoor 2x2 Integrated Gigabit 11ac access point with PoE Injector
cnPilot E500 Outdoor	PL-E500INTA-RW	E500 (ROW) Outdoor 2x2 Integrated 11ac access point with PoE Injector, No country cord

Supported Features

The following table lists the features that are supported in ePMP 1000/cnPilot Enterprise AP:

Feature	
Capacity	**cnPilot E400/E500** • WLANs: 16 • Clients: 127 for 11ac radio and 256 for 11n radio **ePMP 1000 Hotspot** • WLANs: 8 • Clients: 127
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 Management	• Rate limit upstream and downstream per-client, per-WLAN • 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 • Walled Garden Support
Wired bridging and routing services	• NAT, port forwarding • DHCP Server • DNS proxy server • Firewall, DoS attack prevention
Troubleshooting Tools	• Connectivity test tools (ping, traceroute) • Packet Capture for traffic analysis • WiFi Analyzer for radio/802.11 analysis
Management	• Support for cnMaestro cloud based onboarding with certificate validation for cnPilot E400/E500 and ePMP 1000 • Enterprise class CLI accessible over Telnet and SSH • On-Device GUI (http, https) • SNMP v2c, v3 based monitoring

New features introduced in this release

This section lists the new features introduced in system release 3.1:

Feature	Products	Description
L2GRE	cnPilot E400/E500 and ePMP Hotspot	Layer-2 Over Generic Routing Encapsulation (L2GRE), also known as SoftGRE is a tunneling protocol that allows the Access Point to bridge all the wireless traffic from an SSID across different Layer-3 networks to a GRE concentrator.
PPPoE	cnPilot E400/E500 and ePMP Hotspot	Point-to-Point Protocol over Ethernet is a method for connecting the users on an Ethernet to the Internet through a DSL line, wireless device or a cable modem.
Location-API	cnPilot E400/E500 and ePMP Hotspot	Location-API provides an interface with which a wireless client locationing engine can receive periodic updates of data such as MAC address and signal strengths of all the nearby wireless clients.
DNS Logging	cnPilot E400/E500 and ePMP Hotspot	With DNS logging enabled, the Access Point can generate syslogs of all DNS requests from the wireless clients, for analytics and reporting purposes.
Purple WiFi Support	cnPilot E400/E500 and ePMP Hotspot	Access Points can now be used with Purple WiFi's guest access solution.
Internal Guest Account	cnPilot E400/E500 and ePMP Hotspot	Support for built-in username/password based guest authentication, in addition to the external RADIUS authentication already supported.
NAT-Logging	cnPilot E400/E500	Support for logging every NAT record generated on the AP. Useful for reporting Internet access details of clients when the AP is the gateway to the internet and performing NAT.

Known Issues (System Release 3.1)

This section lists the known issues and limitations in this release of ePMP 1000/cnPilot Enterprise AP:

Tracking	Product	Description / Workaround
FLCN-2008	cnPilot E400/E500, ePMP 1000	DHCP pool does not honor configured MAC binding as the clients get assigned an IP address other than the one configured

Technical Support

For technical support, see
http://www.cambiumnetworks.com/support

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