Release Notes for Cambium Networks cnMatrix Release 2.0.4

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Introduction

This document provides information for the Cambium Networks cnMatrix switch release 2.0.4. 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.

Supported Platforms

- ## cnMatrix EX2028

- ## cnMatrix EX2028-P

- ## cnMatrix EX2010

- ## cnMatrix EX2010-P

Attention: Certain features may not be available on this product line and will be called out explicitly where not applicable.

Supported Features in cnMatrix 2.0.4
## New features in 2.0.4:
Boot Partial Default

The **boot partial default** feature enables you to delete all configuration, except for:

- User configuration for IP address on VLAN 1.

- Default and Static routes.

- Device agent status.

- cnMaestro URL.

- User configuration for username and password to login cnMatrix switch.

- User configuration for DNS servers.

To reset the switch to partial configuration, run the following command: `boot partial default`.

Reset Button

The **reset button** feature enables you to reset the switch (reboot or factory setting). The external reset button can be found on the left side of the front panel, next to the console port and USB hub.
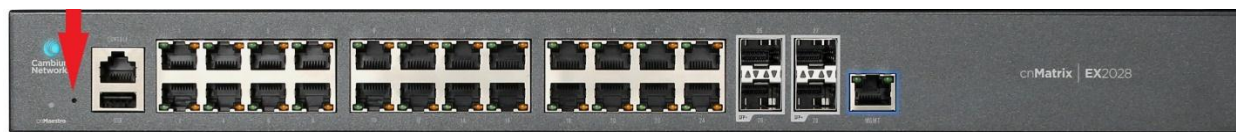
For a simple reboot, you should hold the button pressed for 1 ~ 5 seconds. For a factory reset, you should hold the button pressed for 5 ~ 10 seconds.

Web Support for Policy Based Automation

The **Policy Based Automation** menu item has been added in the WEB Interface. You are now able to perform the following Auto-Attach configurations from the WEB interface:

- Basic Settings

- Interfaces

- Rules

- Actions

- Policies

- Scripts

Support Onboarding with cnMaestro 2.1.1 Cloud Release

cnMaestro Cloud supports cnMatrix devices with minimum 2.0.4-r1 build. You should manually upgrade your cnMatrix switch to version 2.0.4–r1.

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> The cnMatrix switches with 2.0.1 version will be automatically upgraded during the onboarding process.

The below list is a high level summary of cnMatrix 2.0.4 features. For more detailed information regarding cnMatrix supported features please access cnMatrix User Guide.

Feature	Release 2.0.4
Industry-standard Command Line Interface (CLI)	Yes
Web Management	Yes
cnMaestro Cloud-based Management	Yes
Zero-touch Remote Provisioning	Yes
SNMPv1/v2c/v3	Yes
Telnet Client/Server	Yes
Out-Of-Band Ethernet Management	Yes
SSH/SSH v2	Yes
DHCP Client, Server	Yes
Local/Remote Syslog	Yes
System Resource Monitoring	Yes
802.1Q VLAN and Trunking Support	Yes
802.1d STP, 802.1w RSTP, 802.1s MSTP	Yes
PVRST (Per VLAN RSTP)	Yes
802.1p Quality of Service	Yes
ACL QoS: Mapping/Marking ToS/DSCP, 802.1p, Priority Queue	Yes
Inbound Traffic Policing, and Outbound Traffic Shaping	Yes
Storm Control	Yes
Flow Control Per Port	Yes

802.1ab Link Layer Discovery Protocol (LLDP)	Yes
802.3ad Link Aggregation	Yes
Policy-Based Automation with Dynamic Configuration	Yes
IGMP Snooping v1/v2	Yes
IGMP Snooping Proxy	Yes
Private Vlan Edge	Yes
802.3af/at	Yes
Port Mirroring: Port-based, ACL-based	Yes
SNTP	Yes
Port Statistics	Yes
RMON	Yes
Routing Between Directly Connected Subnets	Yes
Routed Interfaces	Yes
IPv4 static routes	Yes
Host routes	Yes
DHCP Relay	Yes
802.1x Authentication	Yes
Radius/TACACS+	Yes
DHCP Snooping	Yes
Static MAC	Yes
IGMP Filtering	Yes
Locally Managed Username and Password	Yes
cnMaestro on-premise	No
RIPv1/v2	No
OSPFv2	No
USB support	No

Reset button	Yes

Known Issues (Release 2.0.4)

Tracking	Product	Description	Workaround
388	All	DHCP Relay: The switch doesn't relay all DHCP Release and Renew packets if there are more than 360 DHCP clients connected to the switch.	Use cnMatrix switch to relay DHCP packets for less than 360 DHCP clients.
460	All	LLDP port-id-subtype setting and DHCP server host hardware-type 3 setting are lost after boot.	Reconfigure the settings if they are lost after reboot.
519	All	UP7 traffic not equally serviced if received from 2 different ports - SP scheduler	N/A
554	All	802.1x Single Host : Mac-addresses are not learned in mac-address table after the clients are authenticated in single-host mode while in multi-host are learned properly	N/A
611	All	Agent download via in-band routed port locks the console	Use VLAN interface or Out of Band interface for Agent download. Do not use routed port interface.
680	All	Priority-maps using DSCP are remarking all packet with DSCP 0 after reload	N/A
682	All	DSCP value remarked to last configured value	N/A
695	All	Ping doesn't work between 1/10 Gb interfaces or 1/10 Gb port-channels when STP mode is PVRST and more than 9 VLANs are created.	N/A
735	All	Unexpected routes present when the switch acquires IP address via DHCP and it the DHCP packets are being relayed by another cnMatrix switch.	N/A.
838	All	DHCP Snooping: When disabling DHCP Snooping globally, the DHCP Snooping VLAN configuration is cleared.	Reconfigure DHCP Snooping per VLAN.
854	All	IGMP Snooping: forwarding database is not updated if ports are added to VLAN after IGMP snooping is configured.	Disable and re-enable IGMP Snooping.
946	All	Routing is not working on routed port when static ARP is used	Use static ARPs only for VLAN interfaces.
985	All	Exec-timeout setting is lost after reboot.	Reconfigure this setting after unit reboot.
1056	All	Physical ports that are part of a port-channel are returning to Vlan 1 after remote peer is performing a boot default. 1) When port-channel is deleted, links are not restored to original VLANs	N/A

		2) When link member is not part of the bundle, it is assigned to VLAN 1	

Feature Notes

- If you remove the default IP address from mgmt0 interface and save the running-config the default IP address is restored after boot.

- DHCP Client is enabled by default on In-Band Ports from VLAN 1.

- The Out-of-Band port has the following default IP address: 192.168.0.1.

Limitations

- 265 - Flow control counters displayed by the command show interface flow control are not incremented on Extreme Ethernet interfaces (10GB).

- 437 – SNTP Authentication is not supported for broadcast and multicast modes.