Release Notes for Cambium Networks cnMatrix Release 2.1.3-r2

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Introduction

cnMatrix 2.1.3-r2 release is a patch build and is based on cnMatrix 2.1.2-r1 release. This release provides important bug fixes, but no new features or enhancements.

Supported Platforms

- cnMatrix EX2028

- cnMatrix EX2028-P

- cnMatrix EX2010

- cnMatrix EX2010-P

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Defect Fixes / Enhancements

ID	Customer ID	Summary	Symptom
2405		When a large number of VLANs are configured on the switch, cnMaestro dashboard stops monitoring/stats update	When more than 390 VLANs are created on the switch, cnMaestro no longer shows switch statistics.
2427		Link down on partner switch with SFP copper transceiver	Link is not established intermittently when using a SFP or SFP copper transceiver to connect from cnMatrix to another switch. cnMatrix displays the port as up, but the partner switch reports the link as down.
2548	205149	SNTP client fails to synchronize with some public servers	SNTP client fails to synchronize with time1.google.com server. The DNS response resolves the server hostname with IPv6 and IPv4 addresses. The SNTP client uses the IPv6 server address, even though only an IPv4 interface is configured on the switch.
2459	207529	The switch can lock up when running 'power inline never' command.	This issue is seen when negative SNTP time-zone is configured. When 'power inline' is issued, the CLI locks up and the switch becomes unresponsive. This is not a PoE hardware issue, but rather a time zone bug which has an unwanted side effect upon PoE.

Supported Features in cnMatrix 2.1

The below list is a high level summary of cnMatrix 2.1 features. For more detailed information regarding cnMatrix supported features, please access cnMatrix User Guide.

Feature	Release 2.0.5	Release 2.1
Industry-standard Command Line Interface (CLI)	Yes	Yes
Web Management	Yes	Yes
cnMaestro Cloud-based Management	Yes	Yes
Zero-touch Remote Provisioning	Yes	Yes
SNMPv1/v2c/v3	Yes	Yes
Telnet Client/Server	Yes	Yes
Out-Of-Band Ethernet Management	Yes	Yes
SSH/SSH v2	Yes	Yes
DHCP Client, Server	Yes	Yes
Local/Remote Syslog	Yes	Yes
System Resource Monitoring	Yes	Yes

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802.1Q VLAN and Trunking Support	Yes	Yes
802.1d STP, 802.1w RSTP, 802.1s MSTP	Yes	Yes
PVRST (Per VLAN RSTP)	Yes	Yes
802.1p Quality of Service	Yes	Yes
ACL QoS: Mapping/Marking ToS/DSCP, 802.1p, Priority Queue	Yes	Yes
Inbound Traffic Policing, and Outbound Traffic Shaping	Yes	Yes
Storm Control	Yes	Yes
Flow Control Per Port	Yes	Yes
802.1ab Link Layer Discovery Protocol (LLDP)	Yes	Yes
802.3ad Link Aggregation	Yes	Yes
Policy-Based Automation with Dynamic Configuration	Yes	Yes
IGMP Snooping v1/v2	Yes	Yes
IGMP Snooping Proxy	Yes	Yes
Private Vlan Edge	Yes	Yes
802.3af/at	Yes	Yes
Port Mirroring: Port-based, ACL-based	Yes	Yes
SNTP	Yes	Yes
Port Statistics	Yes	Yes
RMON	Yes	Yes
Routing Between Directly Connected Subnets	Yes	Yes
Routed Interfaces	Yes	Yes
IPv4 static routes	Yes	Yes
Host routes	Yes	Yes
DHCP Relay	Yes	Yes
802.1x Authentication	Yes	Yes

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Radius/TACACS+	Yes	Yes
DHCP Snooping	Yes	Yes
Static MAC	Yes	Yes
IGMP Filtering	Yes	Yes
Locally Managed Username and Password	Yes	Yes
cnMaestro on-premise	No	Yes
RIPv1/v2	No	Yes
OSPFv2	No	Yes
USB support	No	Yes
Reset button	Yes	Yes
Dynamic ARP Inspection	No	Yes
LLDP-MED	No	Yes
DO command	No	Yes

Known Issues (Release 2.1)

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.

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Tracking	Product	Description	Workaround
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
838	All	DHCP Snooping: When disabling DHCP Snooping globally, the DHCP Snooping VLAN configuration is cleared.	Reconfigure DHCP Snooping per VLAN.
848	All	Auto Attach: For phone detection it is advisable not to use rules with LLDP-CAP "phone" as matching criteria.	Phones can be identified using other data LLDP data, such as System Description, System Name or Chassis ID.
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 2) When link member is not part of the bundle, it is assigned to VLAN 1	N/A
1193	All	Value of MTU for interfaces from a port-channel is changed only if the interface port-channel is bounced.	MTU can be changed for a physical interface without shutdown. For port-channel, MTU can be changed also without shutdown, but the value is not updated - you need to bounce the port-channel.
1531	All	When using the ACL option as a source for a monitoring session, the monitor session is not functional.	First you have to configure the ACL on the interface and then you have select it as a monitor session for the monitoring session.
1555	All	When downloading agent via SFTP from SSH/telnet session, the download progress is displayed on the console interface, not in the current session.	N/A

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.

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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.

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