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Introduction

This document provides information for the Cambium Networks cnMatrix switch release 2.0.5. 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



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

What’s New in 2.0.5

Improvements/Changes in CLI Interface

* The config-if-range mode has been renamed to config-if-range-vlan for VLAN interface range configuration:
  + - How to access the config-if-range-vlan CLI mode:
      1. Access Global configuration mode, using the following command: configure terminal.
      2. Create VLANs (for example create a range of VLAN from 10 to 12).
      3. Access VLAN Interface range configuration mode, using the following command: interface range vlan 10 – 12.
    - What it does:

A range of VLAN interfaces can be accessed at once for configuration using the following command: interface range vlan 10 - 12. Prior to 2.0.5 release, the CLI mode associated with VLAN range configuration had the same name as physical interface range configuration mode (config-if-range). Starting with 2.0.5 VLAN range configuration mode is named config-if-range-vlan.

* MAC address information has been added in the output of the show system information command.
* The device-agent command has been renamed to cnmaestro:
  + device-agent url <cnMestro URL> 🡺 cnmaestro url <cnMaestro URL>
  + no device-agent 🡺 no cnmaestro
  + show device-agent 🡺 show cnmaestro

Improvements/Changes in WEB Interface

* The default password can be changed in WEB interface, by accessing the Change Password option, in the System menu item.
* A new column, Description, has been added in the WEB interface, in the Port Basic Settings window. This column is a free flow entry box, where you can add and store port description so that you can identify them faster (e.g. types of configurations that were performed on a specific port).

|  |  |
| --- | --- |
|  | Note: This column has also been added in the Port Control, VLAN Port Settings, CIST Settings, MSTP CIST Port Status, Port Status Configuration, Instance Port Configuration, Instance Port Status, LA Port Settings, Interface Settings, Auto-Attach Interface Settings windows, and to all port related windows for statistics.  Please be advised that for this windows, the Description column is a read only column. |

Improvements/Changes Related to cnMaestro

* The show commands can be executed via the Tools tab of cnMaestro. This tool can be used to troubleshoot cnMatrix remotely.
* The link status notifications are displayed in the Notification/Events tab of cnMaestro.

|  |  |
| --- | --- |
|  | Attention: Described cnMaestro related improvements require an upgrade to cnMaestro version 2.2.1. |

Defect Fixes / Enhancements

* Resolved issue that caused the unit to stop working when using IGMP traffic with source IP 0.0.0.0 (1416)
* A new column, Description, has been added to the Web interface on the Port Basic Settings page. This new column allows the user to add a text description for a selected port (1481).
* The Switch MAC Address is displayed in the show system information command output (1269).
* Improved cnMaestro agent reliability (1443).
* Send link status notifications to cnMaestro (1419).
* The administrator default password can be modified using the Web interface (1462).
* After transitioning from Hybrid/Access port mode to Trunk port mode through the Web interface, the trunk port is no longer kept as an untagged member in any of the existing VLANs, including the VLAN whose VLAN ID is equal to the value of the PVID assigned to that port (1174).
* Resolved issue that caused the switch to stop working when the DHCP server was sending DNS name server IP on multiple VLAN interfaces (1224).
* Resolved issue that prevented the switch from sending monitoring and on-demand information to cnMaestro when applying a specific configuration (1492) (Customer Case #181036)
* Resolved issue that caused incorrect information to be displayed when issuing the show interfaces transceivers command. This issue impacted 24 port switches (1449).

Supported Features in cnMatrix 2.0.5

The below list is a high level summary of cnMatrix 2.0.5 features. For more detailed information regarding cnMatrix supported features please access cnMatrix [User Guide.](https://www.cambiumnetworks.com/products/switching/)

| **Feature** | **Release 2.0.5** |
| --- | --- |
| 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 | Yes |
| RIPv1/v2 | No |
| OSPFv2 | No |
| USB support | No |
| Reset button | Yes |

Known Issues (Release 2.0.5)

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

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.