

Troubleshooting Access Points Onboarding issues with the cnMaestro

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Introduction:

The document lists common device (cnPilot, XV and XE APs) onboarding issues seen with the cnMaestro (cloud and On-Premises version) and how to troubleshoot these device onboarding issues.

Device discovering cnMaestro controller:

Device can discover cnMaestro controller by 4 different methods, in the following priority order:

1. Static configuration of cnMaestro IP address or host name
2. Supplying cnMaestro IP address from DHCP server using DHCP Client Option 43
3. Discovering cnMaestro using DNS option 15 i.e. cnMaestro.<domain-name-supplied-by-dhcp-server>.com and
4. Connect to cloud instance of cnMaestro i.e. cloud.cambiumnetworks.com

Usually option 1 to 3 are used when device needs to be managed from On-Premises version of cnMaestro and option 4 is used when device needs to be managed from Cloud instance of cnMaestro. Device communicates using HTTPS protocol to cnMaestro. Device validates cloud cnMaestro server certificate and same will not be validated in case of On-Premises cnMaestro.

Firewall settings on the network

Please note that if firewall is present between device and cnMaestro, we need take care of below 2 network settings,

1. Allow HTTPS communication with destination port number 443
2. Allow all communication to *.cloud.cambiumnetworks.com

Basic network settings on device:

Before troubleshooting device onboarding issue please ensure below basic networking settings working on device,

1. Device has valid
 - a. IP address
 - b. Gateway IP address
 - c. DNS server address (needed if cnMaestro discovery is based on option#1*, 2 and 3)
 - d. Domain name (needed if cnMaestro discovery is based on option#1*, 2 and 3)
2. Device is able to ping to gateway and DNS servers
3. Device is able to resolve cnMaestro host name from the DNS server
4. Device is able to ping to cnMaestro

Note: * if cnMaestro is configured using host name

Troubleshooting device onboarding using discover method 1

1. Ensure that Firewall settings on the network is correct
2. Ensure that Basic network settings on device is correct

Use below CLI to list network parameters

- show ip interface brief cli - to list device IP address
 - show ip route cli - to list device gateway
 - show ip name-server cli - to list DNS servers learned or configured
 - show ip dhcp-client-info cli - to see information learned from the DHCP server
3. If cnMaestro is configured using host name, DNS server is reachable and able to resolve DNS query from device
 4. If the IP address is learned from DHCP server, please ensure that MTU value set on Ethernet interface is set to 1500 bytes, lower MTU can cause HTTPS connection to break
 5. Device is claimed in cnMaestro and approved from the onboarding queue

Trouble shooting device on boarding using discover method 2

1. Ensure that Firewall settings on the network is followed
2. Ensure that Basic network settings on device is followed
3. Ensure that device got cnMaestro IP from option 43, we can make use of below CLI to validate the same

```
XV2-21X-E5386FXconfig)# show ip dhcp-client-info
```

```
VLAN-1:
-----
ip=10.110.200.40
subnet=255.255.255.192
mask=26
router=10.110.200.1
dns=10.110.12.110 10.110.12.111
domain=cambiumnetworks.com
vendorspecinfo=10.110.200.99 → device learned from DHCP server through option 43
lease=6777
serverid=10.110.200.11
vendorclass=Cambium-WiFi-AP → Vendor class information (option 60) should also
require.
```

```
XV2-21X-E5386FXconfig
```

Note: Device learns and uses DHCP server option 43, if it learned from the VLAN interface on which DHCP "**Request options all is enabled**". This option is enabled by default on VLAN 1 and same is disabled on all other interfaces by default. It can be enabled only one interface at time.

Also it is important to have option 60 information in DHCP offer, Server must send option 60 information back to client along with option 43. These 2 fields are must for AP to learn cnMaestro URL via option 43.

As AP code check both values while selecting option 43 string for cnMaestro discovery.

If AP don't find option 60 value in DHCP offer, then AP will look for default URL for connection.

Failure case like this,

No vendor class information (option 60 value) in “`show ip dhcp-client-info`”

```
XV2-21X-E5386FXconfig)# show ip dhcp-client-info

VLAN-1:
-----
ip=10.110.200.40
subnet=255.255.255.192
mask=26
router=10.110.200.1
dns=10.110.12.110 10.110.12.111
domain=cambiumnetworks.com
vendorspecinfo=10.110.200.99 → device learned from DHCP server through option 43
lease=6777
serverid=10.110.200.11
XV2-21X-E5386FXconfig
```

AP debug logs for failure of URL:

```
2023-05-22 18:01:45 3487 DISCOVER-CNS-.C: 173: No Static URL Configured
```

```
2023-05-22 18:01:45 3487 DISCOVER-CNS-.C: 190: No dhcp 43 Configured
```

4. If the IP address is learned from DHCP server, please ensure that MTU value set on Ethernet interface is set to 1500 bytes, lower MTU can cause HTTPS connection to break

```
E600-0BEEFC(config)# show interface brief
```

INTERFACE	MAC	STATUS	SPEED	DUPLEX	MTU
eth1	58-C1-7A-0B-EE-FC	UP	1000M	FULL	1500
eth2	58-C1-7A-0B-EE-FD	DOWN	N/A	N/A	1500

5. Device is claimed in cnMaestro and approved onboarding option

Trouble shooting device on boarding using discover method 3:

1. Ensure that Firewall settings on the network is followed
2. Ensure that Basic network settings on device is followed
3. DNS server has entry for cnMaestro host record
 1. Assume that domain name is xyz.com
 2. Device tries to discover cnMaestro using DNS query cnmaestro.xyz.com
 3. DNS server shall have the entry for the host name "cnmaestro.xyz.com "
4. If the IP address is learned from DHCP server, please ensure that MTU value set on Ethernet interface is set to 1500 bytes, lower MTU can cause HTTPS connection to break
5. Device is claimed in cnMaestro and approved on boarding

Trouble shooting device on boarding using discover method 4:

1. Ensure that Firewall settings on the network is followed
2. Ensure that Basic network settings on device is followed
3. Device is able to resolve cnMaestro host name from the DNS server
4. If the IP address is learned from DHCP server, please ensure that MTU value set on Ethernet interface is set to 1500 bytes, lower MTU can cause HTTPS connection to break

On device how to see connection status with cnMaestro:

From the device dash board status, we shall be able to see cnMaestro connection status

The screenshot shows the Cambium Networks dashboard for a cnPilot E600 device. The left sidebar contains navigation options: Dashboard, Monitor, Configure, Operations, and Troubleshoot. The main content area displays a notification to configure the country of operation, a Clients count of 0, and Channel information (auto 2.4GHz and auto 5GHz). Below this is an 'Access Point Info' table with various system details. The 'cnMaestro Connection Status' row is highlighted with a red circle, showing the device is connected to 10.110.200.99.

Access Point Info	
MAC Address	58-C1-7A-0B-EE-FC
Model	cnPilot E600
Software Version	3.11.4-r9
Location	
Hostname	E600-0BEEFC
Uptime	0 days, 0 hours 47 minutes
Available Memory	61 %
CPU Utilization	3 %
Hardware Type	Dual Band 4x4 Indoor Integrated
Regulatory	ROW
Serial Number	W8TL05N5F3QT
cnMaestro Connection Status	Connected to 10.110.200.99
cnMaestro Account ID	cnmaestro_on_premises

This is a close-up of the 'cnMaestro Connection Status' row from the table above. The value 'Connected to cloud.cambiumnetworks.com' is circled in red.

Regulatory	ROW
Serial Number	W8SK01KGDR17
cnMaestro Connection Status	Connected to cloud.cambiumnetworks.com
cnMaestro Account ID	SOLUTION_TEAM

The different states of connection:

1. Connecting to cloud.cambiumnetworks.com

OR

Connecting to <IP Address of On Premises cnMaestro>

2. Device not claimed

Connectivity	Hardware Type	Dual Band Outdoor Integrated
Packet Capture	Regulatory	ROW
Logs	Serial Number	W8SK01KGDR17
Unconnected Clients	cnMaestro Connection Status	Device Not Claimed
	cnMaestro Account ID	

Claim the device in cnMaestro

3. Waiting for device approval

Packet Capture	Regulatory	ROW
Logs	Serial Number	W8SK01KGDR17
Unconnected Clients	cnMaestro Connection Status	Device Approval Pending from cloud.cambiumnetworks.com
	cnMaestro Account ID	

Approve the device in cnMaestro

How to get / see device on boarding logs:

1. Open UI connection to device IP
2. Go to Trouble Shoot ----> Logs ----> Debug Logs section and press Start Logs button
3. Logs messages will be seen Logs window

Please configure the Country of operation under **Configure->System**

Troubleshoot / Logs

Events

Debug Logs

Stop Logs

```
Mar 16 14:04:43: wmic : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received (cacne.c:2792)
Mar 16 14:05:04: wifiid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received (cache.c:2792)
2021-03-16 14:05:06 532 device-agent.c:659:PING_DATA: len=28 msg [{"Pid": "532", "PLoss": "0"}]
2021-03-16 14:05:15 532 device-agent.c:371:da_alive_cb
2021-03-16 14:06:12 532 log.c:207:start_cns_logging: Send log history (10 lines)
Mar 16 14:05:26: wifiid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received (cache.c:2792)
Mar 16 14:05:26: wifiid : New neighbor 58-C1-7A-6E-DE-83 bss 58-C1-7A-65-5B-90/58-C1-7A-65-5B-80 tx-power 20/20 rssi 0/0 num-clients 0/0
2021-03-16 14:05:33 532 device-agent.c:360:dispatch stat blocks
Mar 16 14:05:33: scmd : Device IP 10.110.200.40 (stats.c:233)
Mar 16 14:05:33: scmd : Mac F8-0B-CB-98-A5-51 IP 10.110.200.1 Iface eth0 Port 1 uplink 1 Wired (meshuplink.c:131)
2021-03-16 14:05:33 532 wifi.c:938:Stats read successfully cleanup g_scm_fd
Mar 16 14:05:33: scmd : read failed (pid:478). error 10:No child processes (main.c:1439)
2021-03-16 14:05:36 532 device-agent.c:659:PING_DATA: len=28 msg [{"Pid": "532", "PLoss": "0"}]
Mar 16 14:06:00: wifiid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received (cache.c:2792)
2021-03-16 14:06:00 532 device-agent.c:659:PING_DATA: len=28 msg [{"Pid": "532", "PLoss": "0"}]
2021-03-16 14:06:12 532 log.c:207:start_cns_logging: Send log history (10 lines)
Mar 16 14:06:00: wifiid : New neighbor 58-C1-7A-6E-DE-A1 bss 58-C1-7A-65-5C-D0/58-C1-7A-65-5C-C0 tx-power 20/25 rssi 0/0 num-clients 0/0
Mar 16 14:06:04: wifiid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received (cache.c:2792)
2021-03-16 14:06:12 532 wifi.c:1316:fcgi_accept_cb: Accepted# 0 fd 0
2021-03-16 14:06:12 532 wifi.c:1246:Got fcgi request on fd 0
2021-03-16 14:06:12 532 wifi.c:1271:fcgi_recv_cb: MSG_EXEC_CMD received on fd 0
2021-03-16 14:06:12 532 exec-cmd.c:1054:Command from cnMaestro: log
```

Device debug logs when connecting to Cloud cnMaestro successfully:

The log messages taken and copied from device debug logs section

```
2021-03-16 14:50:19 741 device-agent.c:2411:Previous state 0 new state 1
2021-03-16 14:50:19 741 device-agent.c:2481:da_enter_state:DA_STATE_DISCOVERY
2021-03-16 14:50:19 741 wifi.c:416:Failed to open static URL file
2021-03-16 14:50:19 741 discover-cns.c:172:No Static URL configured
2021-03-16 14:50:19 741 discover-cns.c:210:No dhcp 43 option configured
2021-03-16 14:50:19 741 discover-cns.c:214:Try DHCP Option 15 DomainName
2021-03-16 14:50:19 741 wifi.c:836:platform_get_dhcp15_url: Domain [cambiumnetworks.com]
Option15 based URL [https://cnmaestro.cambiumnetworks.com]
2021-03-16 14:50:19 741 discover-cns.c:219:Method 1 Trying to contact
[https://cnmaestro.cambiumnetworks.com]
2021-03-16 14:50:19 741 discover-cns.c:105:cnMaestro url
= https://cnmaestro.cambiumnetworks.com
2021-03-16 14:50:19 741 http_parser.c:2432:get_parsed_url_details: len=5 offset=0
2021-03-16 14:50:19 741 http_parser.c:2433:url= [https://cnmaestro.cambiumnetworks.com]
2021-03-16 14:50:19 741 http_parser.c:2441:get_parsed_url_details: protocol=[https]
2021-03-16 14:50:19 741 discover-cns.c:133:cnMaestro host cnmaestro.cambiumnetworks.com port
443
2021-03-16 14:50:19 741 https-client.c:144:dev_type [Gambit] sw_vers [4.2.1-s2] user_agent
[cnDA/1.0 (Gambit/4.2.1-s2; DA/3.31)]
2021-03-16 14:50:19 741 https-client.c:147:build_http_get_request: cns_url
[https://cnmaestro.cambiumnetworks.com]
2021-03-16 14:50:19 741 https-client.c:175:build_http_get_request: No cambium_id available
2021-03-16 14:50:19 741 wifi.c:1819:platform_get_deviceId_cookie: ENTRY
2021-03-16 14:50:19 741 wifi.c:1872:platform_set_cns_connection_state: New Connection_state
```



```
Connecting(4)
2021-03-16 14:50:19 741 wifi.c:1907:platform_set_cns_connection_state: idle_timeout=63
2021-03-16 14:50:19 741 https-client.c:680:Calling OpenConnection
2021-03-16 14:50:19 741 https-client.c:269:OpenConnection: hostname
[cnmaestro.cambiumnetworks.com] port [443/443]
2021-03-16 14:50:19 741 https-client.c:293:OpenConnection: getaddrinfo -2:(Name or service
not known)
2021-03-16 14:50:19 741 https-client.c:397:DNS is not resolved with IPv4, so going with IPv6
2021-03-16 14:50:19 741 https-client.c:293:OpenConnection: getaddrinfo -2:(Name or service
not known)
2021-03-16 14:50:19 741 https-client.c:401:Failed to resolve DNS
2021-03-16 14:50:19 741 https-client.c:683:OpenConnection
to cnmaestro.cambiumnetworks.com:443 failed
2021-03-16 14:50:19 741 discover-cns.c:53:Not able to find cnMaestro, Try Discovering again
2021-03-16 14:50:19 741 discover-cns.c:239:discover_cns: method 4 cns_url
[cloud.cambiumnetworks.com]
2021-03-16 14:50:19 741 https-client.c:144:dev_type [Gambit] sw_vers [4.2.1-s2] user_agent
[cnDA/1.0 (Gambit/4.2.1-s2; DA/3.31)]
2021-03-16 14:50:19 741 https-client.c:147:build_http_get_request: cns_url
[cloud.cambiumnetworks.com]
2021-03-16 14:50:19 741 https-client.c:175:build_http_get_request: No cambium_id available
2021-03-16 14:50:19 741 wifi.c:1819:platform_get_deviceId_cookie: ENTRY
2021-03-16 14:50:19 741 wifi.c:1872:platform_set_cns_connection_state: New Connection_state
Connecting(4)
2021-03-16 14:50:19 741 wifi.c:1907:platform_set_cns_connection_state: idle_timeout=63
2021-03-16 14:50:19 741 https-client.c:680:Calling OpenConnection
2021-03-16 14:50:19 741 https-client.c:269:OpenConnection: hostname
[cloud.cambiumnetworks.com] port [443/443]
2021-03-16 14:50:19 741 https-client.c:296:Resolving URL cloud.cambiumnetworks.com
2021-03-16 14:50:19 741 https-client.c:301:Resolved cloud.cambiumnetworks.com to IPv4
address
2021-03-16 14:50:19 741 https-client.c:308:Trying connection with ip [52.206.40.231],
ai_next 0x73cbc0
2021-03-16 14:50:19 741 https-client.c:324:connect() Operation now in progress
2021-03-16 14:50:19 741 https-client.c:346:connect() success
2021-03-16 14:50:19 741 https-client.c:349:Connected socket 9 IP [10.110.200.75]
2021-03-16 14:50:19 741 https-client.c:352:Device IP 10.110.200.75
2021-03-16 14:50:19 741 https-client.c:686:TCP connection is successful
2021-03-16 14:50:19 741 https-client.c:690:Create SSL context, ca certs path is
/etc/ssl/certs/
2021-03-16 14:50:19 741 https-client.c:711:Openssl connection to cloud.cambiumnetworks.com :
443

2021-03-16 14:50:19 741 https-client.c:733:SSL_ERROR_WANT_READ try again
2021-03-16 14:50:19 741 common.c:292:Server cert validation is enabled
2021-03-16 14:50:19 741 device-agent.c:1997:https server 'cloud.cambiumnetworks.com' has
this certificate, which looks good to me:
/OU=Domain Control2021-03-16 14:50:19 741 https-client.c:733:SSL_ERROR_WANT_READ try again
2021-03-16 14:50:20 741 https-client.c:724:SSL_connect successful
2021-03-16 14:50:20 741 https-client.c:763:Server certificate is verified and it is valid
2021-03-16 14:50:20 741 https-client.c:777:SSL write 178 bytes
2021-03-16 14:50:20 741 https-client.c:804:Wait for headers from router,max tries =0
2021-03-16 14:50:20 741 https-client.c:808:Received 575 bytes
2021-03-16 14:50:20 741 http-header.c:36:Found end of http headers
2021-03-16 14:50:20 741 http-header.c:78:Found http 302 status code
2021-03-16 14:50:20 741 http-header.c:117:Found Location Header
2021-03-16 14:50:20 741 http-header.c:214:HTTP content-length is 26

2021-03-16 14:50:20 741 wifi.c:780:Sending pmac discover, device smac 00-04-56-91-77-72
2021-03-16 14:50:20 741 discover-cns.c:38:cns cloud url = https://csc-ap-sli-s1-
hcc7ckfbs3.cloud.cambiumnetworks.com:443/device, cloud len 69
2021-03-16 14:50:20 741 wifi.c:1803:platform_save_deviceId_cookie: ENTRY
2021-03-16 14:50:20 741 discover-cns.c:252:Discovered method is 0 cns_url [https://csc-ap-
sli-s1-hcc7ckfbs3.cloud.cambiumnetworks.com:443/device]
2021-03-16 14:50:20 741 http_parser.c:2432:get_parsed_url_details: len=5 offset=0
2021-03-16 14:50:20 741 http_parser.c:2433:url= [https://csc-ap-sli-s1-
hcc7ckfbs3.cloud.cambiumnetworks.com:443/device]
2021-03-16 14:50:20 741 http_parser.c:2441:get_parsed_url_details: protocol=[https]
2021-03-16 14:50:20 741 utils.c:125:CheckConnection: csc-ap-sli-s1-
hcc7ckfbs3.cloud.cambiumnetworks.com is available
2021-03-16 14:50:20 741 utils.c:138:Resolved csc-ap-sli-s1-
hcc7ckfbs3.cloud.cambiumnetworks.com to IPv4 address
2021-03-16 14:50:20 741 utils.c:146:Checking TCP connection with before websocket session
```

```
[45.60.49.100], ai_next (nil)
2021-03-16 14:50:20 741 utils.c:170:connect() Operation now in progress
2021-03-16 14:50:20 741 utils.c:191:connect success and updating dns cache for websocket
module
2021-03-16 14:50:20 741 device-agent.c:2546:Make Websocket connection to csc-ap-sli-s1-
hcc7ckfbs3.cloud.cambiumnetworks.com : 443 : path = /device
2021-03-16 14:50:20 741 device-agent.c:2411:Previous state 1 new state 2
2021-03-16 14:50:20 741 device-agent.c:2577:da_enter_state:DA_STATE_CONNECTING
2021-03-16 14:50:20 741 device-agent.c:2579:call libwebsocket_create_context
2021-03-16 14:50:20 741 device-
agent.c:2033:LWS_CALLBACK_OPENSSL_LOAD_EXTRA_CLIENT_VERIFY_CERTS
2021-03-16 14:50:20 741 device-agent.c:2193:Add FD to the pollfd 12 events 1
2021-03-16 14:50:20 741 device-agent.c:2617:Device-Agent Waiting for connect... to
cnMaestro:[csc-ap-sli-s1-hcc7ckfbs3.cloud.cambiumnetworks.com] cti2021-03-16 14:50:20 741
common.c:292:Server cert validation is enabled
2021-03-16 14:50:20 741 device-agent.c:1997:https server 'csc-ap-sli-s1-
hcc7ckfbs3.cloud.cambiumnetworks.com' has this certificate, which looks good 2021-03-16
14:50:21 741 device-agent.c:2043:callback_websocket: LWS_CALLBACK_CLIENT_ESTABLISHED
2021-03-16 14:50:21 741 device-agent.c:2411:Previous state 2 new state 3
2021-03-16 14:50:21 741 device-agent.c:2632:Connected to cnMaestro (0)
2021-03-16 14:50:21 741 device-agent.c:2057:send ping after 20 seconds
2021-03-16 14:50:21 741 device-agent.c:2059:send controller data 1 seconds
2021-03-16 14:50:23 741 wifi.c:780:Sending pmac discover, device smac 00-04-56-91-77-72
Mar 16 14:50:26: wifid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received
(cache.c:2871)
2021-03-16 14:50:29 741 wifi.c:780:Sending pmac discover, device smac 00-04-56-91-77-72
2021-03-16 14:50:35 741 wifi.c:780:Sending pmac discover, device smac 00-04-56-91-77-72
2021-03-16 14:50:42 741 wifi.c:780:Sending pmac discover, device smac 00-04-56-91-77-72
2021-03-16 14:50:43 741 device-agent.c:667:PING_DATA: len=28 msg [{"Pid": "741", "Ploss":
"0"}]
Mar 16 14:50:45: wifid : lldp frame:dmac 01-80-C2-00-00-0E smac 58-C1-7A-ED-FD-62 type 88cc
(lldp.c:89)
2021-03-16 14:50:45 741 common.c:842:rx_lldp: Received LLDP packet
2021-03-16 14:50:45 741 common.c:877:LLDP: 58-C1-7A-ED-FD-61
Mar 16 14:50:45: scmd : prev_tx 1045051 curr_tx 0 (stats.c:1052)
Mar 16 14:50:45: scmd : prev_rx 95673 curr_rx 0 eth index 0
(stats.c:1053)
2021-03-16 14:50:48 741 wifi.c:767:platform_find_parent_mac: Exhausted max attempts,
stopping pmac discovery
2021-03-16 14:50:49 741 device-agent.c:2386:da_register: Sending REGISTER request
2021-03-16 14:50:49 741 common.c:78:SessionID unavailable, regenerating
2021-03-16 14:50:49 741 device-agent.c:1306:hostname [E500-917772]
2021-03-16 14:50:49 741 wifi.c:740:Device IP 10.110.200.75
2021-03-16 14:50:49 741 device-agent.c:1312:dev_ip [10.110.200.75]
2021-03-16 14:50:49 741 device-agent.c:1313:reg_dom [ROW]
2021-03-16 14:50:49 741 wifi.c:1064:config value : 1

2021-03-16 14:50:49 741 wifi.c:437:platform_get_upgrade_status: https_download_status=0
2021-03-16 14:50:49 741 device-agent.c:1368:build_and_send_register: JSON Object:
[{"msgType": 100, "sessId": 524190860, "mac": "00:04:56:91:77:72", 2021-03-16 14:50:49 741
device-agent.c:2106:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 14:50:49 741 device-agent.c:2107:rx 36 [{"msgType":400,"cnsTime":1615886465}]
2021-03-16 14:50:49 741 device-agent.c:2109:Payload remaining is 0
2021-03-16 14:50:49 741 device-agent.c:839:parse_register_response: set device time
2021-03-16 14:50:49 741 common.c:685:set_system_time: UTC time: 1615886465

2021-03-16 14:50:49 741 common.c:687:Syncing system time to cnMaestro time [2021.03.16-
14:51:05]
2021-03-16 14:51:05 741 wifi.c:1872:platform_set_cns_connection_state: New Connection_state
Device Approval Pending(5)
2021-03-16 14:51:05 741 device-agent.c:1583:handle_cns_msg: MSG_REGISTER_SUCCESS received
2021-03-16 14:51:05 741 common.c:1420:Sending buffered event to cns : [{"msgType": 699,
"eId": "NETWORK_RENEW_INTERFACE_IP", "eTime": 1615886356, "se2021-03-16 14:51:05 741
common.c:1420:Sending buffered event to cns : [{"msgType": 699, "eId":
"NETWORK_RENEW_INTERFACE_IP", "eTime": 1615886356, "se2021-03-16 14:51:05 741
common.c:1420:Sending buffered event to cns : [{"msgType": 699, "eId":
"NETWORK_RENEW_INTERFACE_IP", "eTime": 1615886356, "se2021-03-16 14:51:05 741
common.c:1420:Sending buffered event to cns : [{"msgType": 699, "eId":
"SYSTEM_AP_UPLINK_STATUS", "eTime": 1615886362, "sev":2021-03-16 14:51:05 741 device-
agent.c:2106:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 14:51:05 741 device-agent.c:2107:rx 58
[{"msgType":108,"managed":true,"accountId":"SOLUTION_TEAM"}]
2021-03-16 14:51:05 741 device-agent.c:2109:Payload remaining is 0
```

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2021-03-16 14:51:05 741 device-agent.c:1597:handle_cns_msg:MSG_MANAGED_INFO received
2021-03-16 14:51:05 741 wifi.c:1204:set account_id [SOLUTION_TEAM]
2021-03-16 14:51:05 741 wifi.c:1212:Write account_id [SOLUTION_TEAM] to file
2021-03-16 14:51:05 741 device-agent.c:1606:handle_cns_msg:MSG_MANAGED_INFO Complete
2021-03-16 14:51:05 741 device-agent.c:2106:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 14:51:05 741 device-agent.c:2107:rx 15 [{"msgType":123}]
2021-03-16 14:51:05 741 device-agent.c:2109:Payload remaining is 0
2021-03-16 14:51:05 741 device-agent.c:1866:handle_cns_msg:MSG_DEV_INFO_REQUEST received
2021-03-16 14:51:05 741 common.c:1050:get_reason: reason [DEV_FACTORY_RESET]
time=1615886335(Tue Mar 16 14:48:55 2021
)
2021-03-16 14:51:05 741 device-agent.c:1206:build_and_send_dev_info: JSON Object:
[{"msgType": 423, "lastCloseReason": "", "lastCloseTS": 0, "lastReb

2021-03-16 14:50:21 741 device-agent.c:2057:send ping after 20 seconds
2021-03-16 14:50:21 741 device-agent.c:2059:send controller data 1 seconds
2021-03-16 14:50:23 741 wifi.c:780:Sending pmac discover, device smac 00-04-56-91-77-72
Mar 16 14:50:26: wifid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received
(cache.c:2871)
2021-03-16 14:50:29 741 wifi.c:780:Sending pmac discover, device smac 00-04-56-91-77-72
2021-03-16 14:50:35 741 wifi.c:780:Sending pmac discover, device smac 00-04-56-91-77-72
2021-03-16 14:50:42 741 wifi.c:780:Sending pmac discover, device smac 00-04-56-91-77-72
2021-03-16 14:50:43 741 device-agent.c:667:PING_DATA: len=28 msg [{"Pid": "741", "PLoss":
"0"}]
Mar 16 14:50:45: wifid : lldp frame:dmac 01-80-C2-00-00-0E smac 58-C1-7A-ED-FD-62 type 88cc
(lldp.c:89)
2021-03-16 14:50:45 741 common.c:842:rx_lldp: Received LLDP packet
2021-03-16 14:51:44 741 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 14:50:45 741 common.c:877:LLDP: 58-C1-7A-ED-FD-61
Mar 16 14:50:45: scmd : prev_tx 1045051 curr_tx 0 (stats.c:1052)
Mar 16 14:50:45: scmd : prev_rx 95673 curr_rx 0 eth index 0
(stats.c:1053)
2021-03-16 14:50:48 741 wifi.c:767:platform_find_parent_mac: Exhausted max attempts,
stopping pmac discovery
2021-03-16 14:50:49 741 device-agent.c:2386:da_register: Sending REGISTER request
2021-03-16 14:50:49 741 common.c:78:SessionID unavailable, regenerating
2021-03-16 14:50:49 741 device-agent.c:1306:hostname [E500-917772]
2021-03-16 14:50:49 741 wifi.c:740:Device IP 10.110.200.75
2021-03-16 14:50:49 741 device-agent.c:1312:dev_ip [10.110.200.75]
2021-03-16 14:50:49 741 device-agent.c:1313:reg_dom [ROW]
2021-03-16 14:51:44 741 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 14:50:49 741 wifi.c:1064:config value : 1

2021-03-16 14:50:49 741 wifi.c:437:platform_get_upgrade_status: https_download_status=0
2021-03-16 14:50:49 741 device-agent.c:1368:build_and_send_register: JSON Object:
[{"msgType": 100, "sessId": 524190860, "mac": "00:04:56:91:77:72", 2021-03-16 14:50:49 741
device-agent.c:2106:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 14:50:49 741 device-agent.c:2107:rx 36 [{"msgType":400,"cnsTime":1615886465}]
2021-03-16 14:50:49 741 device-agent.c:2109:Payload remaining is 0
2021-03-16 14:50:49 741 device-agent.c:839:parse_register_response: set device time
2021-03-16 14:50:49 741 common.c:685:set_system_time: UTC time: 1615886465

2021-03-16 14:50:49 741 common.c:687:Syncing system time to cnMaestro time [2021.03.16-
14:51:05]
2021-03-16 14:51:05 741 wifi.c:1872:platform_set_cns_connection_state: New Connection_state
Device Approval Pending(5)
2021-03-16 14:51:44 741 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 14:51:05 741 device-agent.c:1583:handle_cns_msg: MSG_REGISTER_SUCCESS received
2021-03-16 14:51:05 741 common.c:1420:Sending buffered event to cns : [{"msgType": 699,
"eId": "NETWORK_RENEW_INTERFACE_IP", "eTime": 1615886356, "se2021-03-16 14:51:05 741
common.c:1420:Sending buffered event to cns : [{"msgType": 699, "eId":
"NETWORK_RENEW_INTERFACE_IP", "eTime": 1615886356, "se2021-03-16 14:51:05 741
common.c:1420:Sending buffered event to cns : [{"msgType": 699, "eId":
"NETWORK_RENEW_INTERFACE_IP", "eTime": 1615886356, "se2021-03-16 14:51:05 741
common.c:1420:Sending buffered event to cns : [{"msgType": 699, "eId":
"SYSTEM_AP_UPLINK_STATUS", "eTime": 1615886362, "sev":2021-03-16 14:51:05 741 device-
agent.c:2106:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 14:51:05 741 device-agent.c:2107:rx 58
[{"msgType":108,"managed":true,"accountId":"SOLUTION_TEAM"}]
2021-03-16 14:51:05 741 device-agent.c:2109:Payload remaining is 0
2021-03-16 14:51:05 741 device-agent.c:1597:handle_cns_msg:MSG_MANA2021-03-16 14:51:44 741
log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 14:51:05 741 wifi.c:1212:Write account_id [SOLUTION_TEAM] to file
```

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2021-03-16 14:51:05 741 device-agent.c:1606:handle_cns_msg:MSG_MANAGED_INFO Complete
2021-03-16 14:51:05 741 device-agent.c:2106:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 14:51:05 741 device-agent.c:2107:rx 15 [{"msgType":123}]
2021-03-16 14:51:05 741 device-agent.c:2109:Payload remaining is 0
2021-03-16 14:51:05 741 device-agent.c:1866:handle_cns_msg:MSG_DEV_INFO_REQUEST received
2021-03-16 14:51:05 741 common.c:1050:get_reason: reason [DEV_FACTORY_RESET]
time=1615886335(Tue Mar 16 14:48:55 2021
)
2021-03-16 14:51:05 741 device-agent.c:1206:build_and_send_dev_info: JSON Object:
[{"msgType": 423, "lastCloseReason": "", "lastCloseTS": 0, "lastReb2021-03-16 14:51:09 741
wifi.c:1263:Got fcgi request on fd 0
Mar 16 14:51:09: scmd : Exec rcv complete closing 70 (actions.c:97)
2021-03-16 14:51:44 741 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 14:51:14 741 device-agent.c:2106:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 14:51:14 741 device-agent.c:2107:rx 2039
[{"msgType":104,"stats":[{"fields":["uptime","hostname","device_location","country_code","ip
_mode2021-03-16 14:51:14 741 device-agent.c:2109:Payload remaining is 0
2021-03-16 14:51:14 741 device-agent.c:1676:handle_cns_msg: MSG_STATS_ON_DEMAND_REQUEST
received
2021-03-16 14:51:14 741 wifi.c:1872:platform_set_cns_connection_state: New Connection_state
Connected(6)
2021-03-16 14:51:14 741 wifi.c:1557:send_controller_connected_state_update_to_wifid: JSON
Object:[25][{"status": 1, "mType": 2}]
2021-03-16 14:51:14 741 device-agent.c:1689:handle_cns_msg: MSG_STATS_ON_DEMAND_REQUEST
Complete
2021-03-16 14:51:14 741 wifi.c:1682:Received msg dest[2] from wifid to be sent to
controller;state[connected]
2021-03-16 14:51:14 741 wifi.c:1612:register_msg_to_controller: JSON Object:[244][{"sessId":
524190860, "ap_mac": "00:04:56:91:77:72", "type": "GambiMar 16 14:51:14: wifid : DA 2021-03-
16 14:51:44 741 log.c:207:start_cns_logging: Send log history (10 lines)
Mar 16 14:51:14: wifid : Dev register request for controller retry timer started, last retry
count[1] (cache.c:4091)
Mar 16 14:51:14: wifid : Successfully sent controller registration msg to device-agent
(cache.c:265)
Mar 16 14:51:14: wifid : cnMaestro status updated to connected (cache.c:4107)
Mar 16 14:51:14: scmd : Device IP 10.110.200.75 (stats.c:346)
2021-03-16 14:51:14 741 device-agent.c:2106:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 14:51:14 741 device-agent.c:2107:rx 608
[{"msgType":416,"ctrlrPayload":{"msgId":2,"ctrlrHost":"","webHost":"ap-s1-
guest.cloud.cambiumnetwor2021-03-16 14:51:14 741 device-agent.c:2109:Payload remaining is 0
2021-03-16 14:51:14 741 device-agent.c:1818:handle_cns_msg: Controller response message
received
2021-03-16 14:51:14 741 wifi.c:1582:handle_controller_rsp: JSON Object:[625][{"msgId": 2,
"ctrlrHost": "", "webHost": "ap-s1-guest.cloud.cambiumnetworMar 16 14:51:14: wifid : DA
sent[625]: {"msgId": 2, "ctrlrHost": "", "webHost": "ap-s1-guest.cloud.cambiumnetwor2021-03-
16 14:51:44 741 log.c:207:start_cns_logging: Send log history (10 lines)
Mar 16 14:51:14: wifid : From controller rcvd msg type[2], total rcvd reply count[1]
(cache.c:3954)
Mar 16 14:51:14: wifid : Received registration reply from controller, use secured
connection, rekey intrvl[43200]
(cache.c:3626)
Mar 16 14:51:14: wifid : CTRLR: secured, stats intrvl[1800], key idx[1] (hotspot.c:140)
Mar 16 14:51:14: wifid : Received 2 guest portal config entries (cache.c:3324)
Mar 16 14:51:14: wifid : Received portal stunnel 2 whitelist entries (cache.c:3341)
Mar 16 14:51:14: wifid : Received portal TEST-PORTAL 2 whitelist entries (cache.c:3341)
Mar 16 14:51:14: wifid : Autorf: Noise is disabled, invalid vap_idx = -1 ridx = 0
(autorf.c:1527)
Mar 16 14:51:14: wifid : Autorf: ioctl failed for obtaining channel for ridx = 0
(autorf.c:1288)
Mar 16 14:51:15: wifid : Autorf: Unable to get cur_ch for radio0, not sending PER values to
clish (autorf.c:3435)
Mar 16 14:51:15: wifid : Autorf: Noise is disabled, invalid vap_idx = -1 ridx = 1
(autorf.c:1527)
2021-03-16 14:51:44 741 log.c:207:start_cns_logging: Send log history (10 lines)
Mar 16 14:51:15: wifid : Autorf: ioctl failed for obtaining channel for ridx = 1
(autorf.c:1288)
Mar 16 14:51:15: wifid : Autorf: Unable to get cur_ch for radiol, not sending PER values to
clish (autorf.c:3435)
2021-03-16 14:51:15 741 wifi.c:948:Stats read successfully cleanup g_scm_fd
Mar 16 14:51:15: scmd : read failed (pid:712). error 10:No child processes (main.c:1462)
Mar 16 14:51:15: wifid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received
(cache.c:2871)
Mar 16 14:51:19: wifid : lldp frame:dmac 01-80-C2-00-00-0E smac 58-C1-7A-ED-FD-62 type 88cc
```

```

(lldp.c:89)
Mar 16 14:51:19: wifid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received
(cache.c:2871)
Mar 16 14:51:21: sysmond : all service checked in (allgood is 1) (main.c:144)
2021-03-16 14:51:25 741 device-agent.c:667:PING_DATA: len=28 msg [{"Pid": "741", "PLoss":
"0"}]
Mar 16 14:51:30: infrad : Error in opening file /tmp/cns_dhcp_43_url (connection.c:84)
2021-03-16 14:51:44 741 log.c:207:start_cns_logging: Send log history (10 lines)
Mar 16 14:51:31: scmd : prev_tx 1067009 curr_tx 0 (stats.c:1052)
Mar 16 14:51:31: scmd : prev_rx 148812 curr_rx 0 eth index 0
(stats.c:1053)
2021-03-16 14:51:44 741 wifi.c:1335:fcgi_accept_cb: Accepted# 0 fd 0
2021-03-16 14:51:44 741 wifi.c:1263:Got fcgi request on fd 0
2021-03-16 14:51:44 741 wifi.c:1289:fcgi_rcv_cb: MSG_EXEC_CMD received on fd 0
2021-03-16 14:51:44 741 exec-cmd.c:1122:Command from cnMaestro: log
2021-03-16 14:51:44 741 exec-cmd.c:1178:Got duration 60
2021-03-16 14:51:44 741 exec-cmd.c:887:Starting command execution for log
2021-03-16 14:51:44 741 exec-cmd.c:891:Command execution timed for 60
2021-03-16 14:51:44 741 exec-cmd.c:896:start_exec_cmd: command [log] host []
2021-03-16 14:51:44 741 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 14:51:48 741 device-agent.c:667:PING_DATA: len=28 msg [{"Pid": "741", "PLoss":
"0"}]
2021-03-16 14:51:49 741 device-agent.c:2106:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 14:51:49 741 device-agent.c:2107:rx 1984
[{"msgType":103,"stats":[{"fields":["uptime","link_speed","link_status","link_duplex","cpu",
"memo2021-03-16 14:51:49 741 device-agent.c:2109:Payload remaining is 0
2021-03-16 14:51:49 741 device-agent.c:1660:handle_cns_msg: MSG_STATS_REQUEST received
Mar 16 14:51:49: wifid : lldp frame:dmac 01-80-C2-00-00-0E smac 58-C1-7A-ED-FD-62 type 88cc
(lldp.c:89)
Mar 16 14:52:01: scmd : prev_tx 1079032 curr_tx 0 (stats.c:1052)
Mar 16 14:52:01: scmd : prev_rx 176543 curr_rx 0 eth index 0
(stats.c:1053)
2021-03-16 14:52:18 741 device-agent.c:667:PING_DATA: len=28 msg [{"Pid": "741", "PLoss":
"0"}]
Mar 16 14:52:19: wifid : lldp frame:dmac 01-80-C2-00-00-0E smac 58-C1-7A-ED-FD-62 type 88cc
(lldp.c:89)
Mar 16 14:52:21: sysmond : all service checked in (allgood is 2) (main.c:144)

```

Device debug logs when connecting to On-Premises cnMaestro successfully:

The log messages taken and copied from device debug logs section

```

2015-09-01 05:31:30 528 device-agent.c:2326:Previous state 0 new state 1
2015-09-01 05:31:30 528 device-agent.c:2388:da_enter_state:DA_STATE_DISCOVERY
2015-09-01 05:31:30 528 discover-cns.c:171:No Static URL configured
2015-09-01 05:31:30 528 wifi.c:801:platform_get_dhcp43_url: cns_url [10.110.200.99]
2015-09-01 05:31:30 528 discover-cns.c:105:cnMaestro url = 10.110.200.99
2015-09-01 05:31:30 528 http_parser.c:2432:get_parsed_url_details: len=5 offset=0
2015-09-01 05:31:30 528 http_parser.c:2433:url= [https://10.110.200.99]
2015-09-01 05:31:30 528 http_parser.c:2441:get_parsed_url_details: protocol=[https]
2015-09-01 05:31:30 528 discover-cns.c:129:cnMaestro host 10.110.200.99 port 443
2015-09-01 05:31:30 528 discover-cns.c:204:discover_cns: method 2 cns_url [10.110.200.99]
2015-09-01 05:31:30 528 https-client.c:130:dev_type [Sage] sw_vers [3.11.4-r9] user_agent
[cnDA/1.0 (Sage/3.11.4-r9; DA/2.105.19)]
2015-09-01 05:31:30 528 https-client.c:133:build_http_get_request: cns_url [10.110.200.99]
2015-09-01 05:31:30 528 https-client.c:161:build_http_get_request: No cambium_id available
2015-09-01 05:31:30 528 wifi.c:1792:platform_get_deviceId_cookie: ENTRY
2015-09-01 05:31:30 528 utils.c:104:IPv4 address: 10.110.200.99 (10.110.200.99)

2015-09-01 05:31:30 528 wifi.c:1845:platform_set_cns_connection_state: New Connection_state
Connecting(4)
2015-09-01 05:31:30 528 wifi.c:1876:platform_set_cns_connection_state: idle_timeout=61
2015-09-01 05:31:30 528 https-client.c:214:Resolved router 10.110.200.99 to 10.110.200.99
2015-09-01 05:31:30 528 https-client.c:231:EINPROGRESS in connect()

2015-09-01 05:31:30 528 https-client.c:244:Open connection ok
2015-09-01 05:31:30 528 https-client.c:272:Device IP learned 10.110.200.40
2015-09-01 05:31:30 528 https-client.c:560:TCP connection is successful
2015-09-01 05:31:30 528 https-client.c:564:Create SSL context, ca certs path is

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/etc/ssl/certs/
2015-09-01 05:31:30 528 https-client.c:585:Openssl connection to 10.110.200.99 : 443

2015-09-01 05:31:30 528 https-client.c:607:SSL_ERROR_WANT_READ try again
2015-09-01 05:31:30 528 https-client.c:607:SSL_ERROR_WANT_READ try again
2015-09-01 05:31:30 528 common.c:283:Non-cambium/cloud cnMaestro URL [10.110.200.99],
disabling Server Cert check
2015-09-01 05:31:30 528 device-agent.c:1898:Allowing all certificates
2015-09-01 05:31:30 528 https-client.c:607:SSL_ERROR_WANT_READ try again
2015-09-01 05:31:30 528 https-client.c:598:SSL_connect successful
2015-09-01 05:31:30 528 https-client.c:637:Server certificate is verified and it is valid
2015-09-01 05:31:30 528 https-client.c:651:SSL write 271 bytes
2015-09-01 05:31:30 528 https-client.c:678:Wait for headers from router,max_tries =0
2015-09-01 05:31:30 528 https-client.c:682:Received 458 bytes
2015-09-01 05:31:30 528 http-header.c:36:Found end of http headers
2015-09-01 05:31:30 528 http-header.c:78:Found http 302 status code
2015-09-01 05:31:30 528 http-header.c:117:Found Location Header
2015-09-01 05:31:30 528 http-header.c:214:HTTP content-length is 26

2015-09-01 05:31:30 528 wifi.c:770:Sending pmac discover, device smac 58-C1-7A-0B-EE-FC
2015-09-01 05:31:30 528 discover-cns.c:38:cns cloud url = https://10.110.200.99:443/device,
cloud len 32
2015-09-01 05:31:30 528 wifi.c:1776:platform_save_deviceId_cookie: ENTRY
2015-09-01 05:31:30 528 discover-cns.c:251:Discovered method is 2 cns_url
[https://10.110.200.99:443/device]
2015-09-01 05:31:30 528 http_parser.c:2432:get_parsed_url_details: len=5 offset=0
2015-09-01 05:31:30 528 http_parser.c:2433:url= [https://10.110.200.99:443/device]
2015-09-01 05:31:30 528 http_parser.c:2441:get_parsed_url_details: protocol=[https]
2015-09-01 05:31:30 528 utils.c:104:IPv4 address: 10.110.200.99 (10.110.200.99)

2015-09-01 05:31:30 528 device-agent.c:2454:Make Websocket connection to 10.110.200.99 : 443
: path = /device
2015-09-01 05:31:30 528 device-agent.c:2326:Previous state 1 new state 2
2015-09-01 05:31:30 528 device-agent.c:2485:da enter state:DA STATE CONNECTING
2015-09-01 05:31:30 528 device-agent.c:2487:call libwebsocket_create_context
2015-09-01 05:31:30 528 device-
agent.c:1988:LWS_CALLBACK_OPENSSL_LOAD_EXTRA_CLIENT_VERIFY_CERTS
2015-09-01 05:31:30 528 device-agent.c:2149:Add FD to the pollfd 12 events 1
2015-09-01 05:31:30 528 device-agent.c:2514:Device-Agent Waiting for connect... to
cnMaestro:[10.110.200.99] ctimer=(nil)
2015-09-01 05:31:30 528 common.c:283:Non-cambium/cloud cnMaestro URL
[https://10.110.200.99:443/device], disabling Server Cert check
2015-09-01 05:31:30 528 device-agent.c:1898:Allowing all certificates
2015-09-01 05:31:30 528 device-agent.c:1998:callback_websocket:
LWS_CALLBACK_CLIENT_ESTABLISHED
2015-09-01 05:31:30 528 device-agent.c:2006:Cleanup any leftover stats requests/timers
2015-09-01 05:31:30 528 device-agent.c:2326:Previous state 2 new state 3
2015-09-01 05:31:30 528 device-agent.c:2529:Connected to cnMaestro (0)
2015-09-01 05:31:30 528 device-agent.c:2013:send ping after 21 seconds
2015-09-01 05:31:30 528 device-agent.c:2015:send controller data 1 seconds
Sep 01 05:31:31: scmd : drift detected curr_time 95 prev_time 0 diff 95 eth_index 0
(stats.c:887)
2015-09-01 05:31:32 528 wifi.c:770:Sending pmac discover, device smac 58-C1-7A-0B-EE-FC
2015-09-01 05:31:38 528 wifi.c:770:Sending pmac discover, device smac 58-C1-7A-0B-EE-FC
2015-09-01 05:31:44 528 wifi.c:770:Sending pmac discover, device smac 58-C1-7A-0B-EE-FC
2015-09-01 05:31:50 528 wifi.c:770:Sending pmac discover, device smac 58-C1-7A-0B-EE-FC
2015-09-01 05:31:53 528 common.c:841:rx_lldp: Received LLDP packet
2015-09-01 05:31:53 528 common.c:876:LLDP: 10-DA-43-07-8C-F6
2015-09-01 05:31:53 528 device-agent.c:659:PING_DATA: len=28 msg [{"Pid": "528", "Ploss":
"0"}]
2015-09-01 05:31:56 528 wifi.c:757:platform_find_parent_mac: Exhausted max attempts,
stopping pmac discovery
2015-09-01 05:31:58 528 device-agent.c:2300:da_register: Sending REGISTER request
2015-09-01 05:31:58 528 common.c:78:SessionID unavailable, regenerating
2015-09-01 05:31:58 528 device-agent.c:1271:hostname [E600-0BEEFC]
2015-09-01 05:31:58 528 wifi.c:730:Device IP 10.110.200.40
2015-09-01 05:31:58 528 device-agent.c:1277:dev_ip [10.110.200.40]
2015-09-01 05:31:58 528 device-agent.c:1278:reg_dom [ROW]
2015-09-01 05:31:58 528 wifi.c:1047:config value : 1

2015-09-01 05:31:58 528 wifi.c:433:platform_get_upgrade_status: https_download_status=0
2015-09-01 05:31:58 528 device-agent.c:1322:build_and_send_register: JSON Object:
[{"msgType": 100, "sessId": 1391514672, "mac": "58:c1:7a:0b:ee:fc",2015-09-01 05:31:58 528
```

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device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2015-09-01 05:31:58 528 device-agent.c:2063:rx 36 [{"msgType":400,"cnsTime":1615887225}]
2015-09-01 05:31:58 528 device-agent.c:2065:Payload remaining is 0
2015-09-01 05:31:58 528 device-agent.c:829:parse_register_response: set device time
2015-09-01 05:31:58 528 common.c:684:set_system_time: UTC time: 1615887225

2015-09-01 05:31:58 528 common.c:686:Syncing system time to cnMaestro time [2021.03.16-
15:03:45]
2021-03-16 15:03:45 528 wifi.c:1845:platform_set_cns_connection_state: New Connection_state
Device Approval Pending(5)
2021-03-16 15:03:45 528 device-agent.c:1538:handle_cns_msg: MSG_REGISTER_SUCCESS received
2021-03-16 15:03:45 528 common.c:1396:Nothing in event buffer list to send
2021-03-16 15:03:45 528 device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:45 528 device-agent.c:2063:rx 44
[{"msgType":117,"waitTime":45,"deltaTime":15}]
2021-03-16 15:03:45 528 device-agent.c:2065:Payload remaining is 0
2021-03-16 15:03:45 528 device-agent.c:1793:handle_cns_msg: MSG_INTVL_UPDATE_CMD_REQUEST
received
2021-03-16 15:03:45 528 device-agent.c:1476:cnMaestro has sent reconnect wait=45 delta=15
2021-03-16 15:03:45 528 device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:45 528 device-agent.c:2063:rx 66
[{"msgType":108,"managed":true,"accountId":"cnmaestro_on_premises"}]
2021-03-16 15:03:45 528 device-agent.c:2065:Payload remaining is 0
2021-03-16 15:03:45 528 device-agent.c:1552:handle_cns_msg:MSG_MANAGED_INFO received
2021-03-16 15:03:45 528 wifi.c:1187:set_account_id [cnmaestro_on_premises]
2021-03-16 15:03:45 528 wifi.c:1195:Write account_id [cnmaestro_on_premises] to file
2021-03-16 15:03:45 528 device-agent.c:1561:handle_cns_msg:MSG_MANAGED_INFO Complete
2021-03-16 15:03:45 528 device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:45 528 device-agent.c:2063:rx 15 [{"msgType":123}]
2021-03-16 15:03:45 528 device-agent.c:2065:Payload remaining is 0
2021-03-16 15:03:45 528 device-agent.c:1821:handle_cns_msg:MSG_DEV_INFO_REQUEST received
2021-03-16 15:03:45 528 common.c:1049:get_reason: reason [DEV_REBOOT_GUI]
time=1615887086(Tue Mar 16 15:01:26 2021
)
2021-03-16 15:03:45 528 device-agent.c:1159:build_and_send_dev_info: JSON Object:
[{"msgType": 423, "lastCloseReason": "", "lastCloseTS": 0, "lastReb2021-03-16 15:03:54 528
device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:54 528 device-agent.c:2063:rx 2024
[{"msgType":104,"stats":[{"fields":["uptime","hostname","device_location","country_code","ip
_mode2021-03-16 15:03:54 528 device-agent.c:2065:Payload remaining is 0
2021-03-16 15:03:54 528 device-agent.c:1631:handle_cns_msg: MSG_STATS_ON_DEMAND_REQUEST
received
2021-03-16 15:03:54 528 wifi.c:1845:platform_set_cns_connection_state: New Connection_state
Connected(6)
2021-03-16 15:03:54 528 wifi.c:1538:send_controller_connected_state_update_to_wifid: JSON
Object:[25][{"status": 1, "mType": 2}]
2021-03-16 15:03:54 528 stats-json-parse.c:529:parse_build_on_demand_stats: ENTRY
2021-03-16 15:03:54 528 stats-json-parse.c:544:parse_build_on_demand_stats: Calling
parse_stats_object
2021-03-16 15:03:54 528 stats-json-parse.c:323:parse_stats_object: MALLOC request=0x3272d0
2021-03-16 15:03:54 528 stats-json-parse.c:324:parse_stats_object: stats request object 0/1,
periodic=0
2021-03-16 15:03:54 528 stats-json-parse.c:338:t_index = 0
2021-03-16 15:03:54 528 stats-json-parse.c:341:p_stats_info->interval = 0
2021-03-16 15:03:54 528 stats-json-parse.c:208:parse_fld_array: MALLOC request-
>fld_array=0x327bb0
2021-03-16 15:03:54 528 stats-json-parse.c:113:Table size is 7
2021-03-16 15:03:54 528 stats-json-parse.c:150:parse_tbl_object: MALLOC request-
>tbl_array=0x327ce8
2021-03-16 15:03:54 528 stats-json-parse.c:152:Iterate over table elements
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x3280a8
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ radio_stats ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x328220
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ ext_client_stats ]
complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329500
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ wlan_stats ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329450
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ client_failures ] complete
```

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2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329588
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ client_stats ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329870
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ radio_rfstats ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329918
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ mesh_info ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:591:parse_build_on_demand_stats: Free all memory
alloc'd for this onetime request
2021-03-16 15:03:54 528 stats-json-parse.c:400:free_stats_request: Free request-
>fld_array=0x327bb0 t_index=0 fld_size=19 tbl_size=7
2021-03-16 15:03:54 528 stats-json-parse.c:411:free_stats_request: Free request->table-
>fld_array=0x3280a8 table_name radio_stats tptr=0x327ce8 fld_s2021-03-16 15:03:54 528 stats-
json-parse.c:411:free_stats_request: Free request->table->fld_array=0x328220 table_name
ext_client_stats tptr=0x327d70 2021-03-16 15:03:54 528 stats-json-
parse.c:411:free_stats_request: Free request->table->fld_array=0x329500 table_name
wlan_stats tptr=0x327df8 fld_si2021-03-16 15:03:54 528 stats-json-
parse.c:411:free_stats_request: Free request->table->fld_array=0x329450 table_name
client_failures tptr=0x327e80 f2021-03-16 15:03:54 528 stats-json-
parse.c:411:free_stats_request: Free request->table->fld_array=0x329588 table_name
client_stats tptr=0x327f08 fld_2021-03-16 15:03:54 528 stats-json-
parse.c:411:free_stats_request: Free request->table->fld_array=0x329870 table_name
radio_rfstats tptr=0x327f90 fld2021-03-16 15:03:54 528 stats-json-
parse.c:411:free_stats_request: Free request->table->fld_array=0x329918 table_name mesh_info
tptr=0x328018 fld_siz2021-03-16 15:03:54 528 stats-json-parse.c:421:free_stats_request: Free
request->tbl_array=0x327ce8 rptr->tbl_size=7
2021-03-16 15:03:54 528 stats-json-parse.c:428:free_stats_request: Free request=0x3272d0
2021-03-16 15:03:54 528 device-agent.c:1644:handle_cns_msg: MSG_STATS_ON_DEMAND_REQUEST
Complete
2021-03-16 15:03:54 528 wifi.c:1663:Received msg dest[2] from wifid to be sent to
controller;state[connected]
2021-03-16 15:03:54 528 wifi.c:1593:register_msg_to_controller: JSON Object:[243][{"sessId":
1391514672, "ap_mac": "58:c1:7a:0b:ee:fc", "type": "SageMar 16 15:03:54: wifid : DA
sent[25]: {"status": 1, "mType": 2} (cache.c:4044)
Mar 16 15:03:54: wifid : Dev register request for controller retry timer started, last retry
count[1] (cache.c:4006)
Mar 16 15:03:54: wifid : Successfully sent controller registration msg to device-agent
(cache.c:251)
Mar 16 15:03:54: wifid : cnMaestro status updated to connected (cache.c:4022)
Mar 16 15:03:54: scmd : Device IP 10.110.200.40 (stats.c:233)
2021-03-16 15:03:54 528 device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:54 528 device-agent.c:2063:rx 697
[{"msgType":416,"ctrlrPayload":{"msgId":2,"ctrlHost":"","webHost":"wifibl.cambiumnetworks.c
om","w2021-03-16 15:03:54 528 device-agent.c:2065:PayLoad remaining is 0
2021-03-16 15:03:54 528 device-agent.c:1773:handle_cns_msg: Controller response message
received
2021-03-16 15:03:54 528 wifi.c:1563:handle_controller_rsp: JSON Object:[727][{"msgId": 2,
"guestKey": "JcAokexPcGasn6czwb7gxvS5ovln_Jy-Yn-N0LgrfH8.",Mar 16 15:03:54: wifid : DA
sent[727]: {"msgId": 2, "guestKey": "JcAokexPcGasn6czwb7gxvS5ovln_Jy-Yn-N0LgrfH8.",
"webNonSecured": 0, "st
Mar 16 15:03:54: wifid : From controller rcvd msg type[2], total recvd reply count[1]
(cache.c:3869)
Mar 16 15:03:54: wifid : Received registration reply from controller, use secured
connection, rekey intrvl[43200]
(cache.c:3541)
Mar 16 15:03:54: wifid : CTRLR: secured, stats intrvl[1800], key idx[0] (hotspot.c:125)
Mar 16 15:03:54: wifid : Received 3 guest portal config entries (cache.c:3239)
Mar 16 15:03:54: wifid : Received portal Guest-portal 0 whitelist entries (cache.c:3256)
Mar 16 15:03:54: wifid : Received portal Guest_Portal_Global 11 whitelist entries
(cache.c:3256)
Mar 16 15:03:54: wifid : Received portal IP-pay 2 whitelist entries (cache.c:3256)
Mar 16 15:03:54: scmd : Mac F8-0B-CB-98-A5-51 IP 10.110.200.1 Iface eth0 Port 1 uplink 1
Wired (meshuplink.c:131)
2021-03-16 15:03:54 528 wifi.c:938:Stats read successfully cleanup g_scm_fd
```

```
2015-09-01 05:31:58 528 common.c:684:set_system_time: UTC time: 1615887225
```

```
2015-09-01 05:31:58 528 common.c:686:Syncing system time to cnMaestro time [2021.03.16-
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15:03:45]
2021-03-16 15:03:45 528 wifi.c:1845:platform_set_cns_connection_state: New Connection_state
Device Approval Pending(5)
2021-03-16 15:03:45 528 device-agent.c:1538:handle_cns_msg: MSG_REGISTER_SUCCESS received
2021-03-16 15:03:45 528 common.c:1396:Nothing in event buffer list to send
2021-03-16 15:03:45 528 device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:45 528 device-agent.c:2063:rx 44
[{"msgType":117,"waitTime":45,"deltaTime":15}]
2021-03-16 15:03:45 528 device-agent.c:2065:Payload remaining is 0
2021-03-16 15:03:45 528 device-agent.c:1793:handle_cns_msg: MSG_INTVL_UPDATE_CMD_REQUEST
received
2021-03-16 15:03:45 528 device-agent.c:1476:cnMaestro has sent reconnect wait=45 delta=15
2021-03-16 15:04:13 528 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 15:03:45 528 device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:45 528 device-agent.c:2063:rx 66
[{"msgType":108,"managed":true,"accountId":"cnmaestro_on_premises"}]
2021-03-16 15:03:45 528 device-agent.c:2065:Payload remaining is 0
2021-03-16 15:03:45 528 device-agent.c:1552:handle_cns_msg:MSG_MANAGED_INFO received
2021-03-16 15:03:45 528 wifi.c:1187:set_account_id [cnmaestro_on_premises]
2021-03-16 15:03:45 528 wifi.c:1195:Write account_id [cnmaestro_on_premises] to file
2021-03-16 15:03:45 528 device-agent.c:1561:handle_cns_msg:MSG_MANAGED_INFO Complete
2021-03-16 15:03:45 528 device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:45 528 device-agent.c:2063:rx 15 [{"msgType":123}]
2021-03-16 15:03:45 528 device-agent.c:2065:Payload remaining is 0
2021-03-16 15:04:13 528 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 15:03:45 528 device-agent.c:1821:handle_cns_msg:MSG_DEV_INFO_REQUEST received
2021-03-16 15:03:45 528 common.c:1049:get_reason: reason [DEV_REBOOT_GUI]
time=1615887086(Tue Mar 16 15:01:26 2021
)
2021-03-16 15:03:45 528 device-agent.c:1159:build_and_send_dev_info: JSON Object:
[{"msgType": 423, "lastCloseReason": "", "lastCloseTS": 0, "lastReb2021-03-16 15:03:54 528
device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:54 528 device-agent.c:2063:rx 2024
[{"msgType":104,"stats":[{"fields":["uptime","hostname","device_location","country_code","ip
_mode2021-03-16 15:03:54 528 device-agent.c:2065:Payload remaining is 0
2021-03-16 15:03:54 528 device-agent.c:1631:handle_cns_msg: MSG_STATS_ON_DEMAND_REQUEST
received
2021-03-16 15:03:54 528 wifi.c:1845:platform_set_cns_connection_state: New Connection_state
Connected(6)
2021-03-16 15:03:54 528 wifi.c:1538:send_controller_connected_state_update_to_wifid: JSON
Object:[25][{"status": 1, "mType": 2}]
2021-03-16 15:03:54 528 stats2021-03-16 15:04:13 528 log.c:207:start_cns_logging: Send log
history (10 lines)
2021-03-16 15:03:54 528 stats-json-parse.c:544:parse_build_on_demand_stats: Calling
parse_stats_object
2021-03-16 15:03:54 528 stats-json-parse.c:323:parse_stats_object: MALLOC request=0x3272d0
2021-03-16 15:03:54 528 stats-json-parse.c:324:parse_stats_object: stats request object 0/1,
periodic=0
2021-03-16 15:03:54 528 stats-json-parse.c:338:t_index = 0
2021-03-16 15:03:54 528 stats-json-parse.c:341:p_stats_info->interval = 0
2021-03-16 15:03:54 528 stats-json-parse.c:208:parse_fld_array: MALLOC request-
>fld_array=0x327bb0
2021-03-16 15:03:54 528 stats-json-parse.c:113:Table size is 7
2021-03-16 15:03:54 528 stats-json-parse.c:150:parse_tbl_object: MALLOC request-
>tbl_array=0x327ce8
2021-03-16 15:03:54 528 stats-json-parse.c:152:Iterate over table elements
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x3280a8
2021-03-16 15:04:13 528 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ radio_stats ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x328220
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ ext_client_stats ]
complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329500
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ wlan_stats ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329450
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ client failures ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329588
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ client_stats ] complete
```

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2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329870
2021-03-16 15:04:13 528 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ radio_rfstats ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329918
2021-03-16 15:03:54 528 stats-json-parse.c:167:Parsing of Table [ mesh_info ] complete
2021-03-16 15:03:54 528 stats-json-parse.c:591:parse_build_on_demand_stats: Free all memory
alloc'd for this onetime request
2021-03-16 15:03:54 528 stats-json-parse.c:400:free_stats_request: Free request-
>fld_array=0x327bb0 t_index=0 fld_size=19 tbl_size=7
2021-03-16 15:03:54 528 stats-json-parse.c:411:free_stats_request: Free request->table-
>fld_array=0x3280a8 table_name radio_stats tptr=0x327ce8 fld_s2021-03-16 15:03:54 528 stats-
json-parse.c:411:free_stats_request: Free request->table->fld_array=0x328220 table_name
ext_client_stats tptr=0x327d70 2021-03-16 15:03:54 528 stats-json-
parse.c:411:free_stats_request: Free request->table->fld_array=0x329500 table_name
wlan_stats tptr=0x327df8 fld_si2021-03-16 15:03:54 528 stats-json-2021-03-16 15:04:13 528
log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 15:03:54 528 stats-json-parse.c:411:free_stats_request: Free request->table-
>fld_array=0x329870 table_name radio_rfstats tptr=0x327f90 fld2021-03-16 15:03:54 528 stats-
json-parse.c:411:free_stats_request: Free request->table->fld_array=0x329918 table_name
mesh_info tptr=0x328018 fld_siz2021-03-16 15:03:54 528 stats-json-
parse.c:421:free_stats_request: Free request->tbl_array=0x327ce8 rptr->tbl_size=7
2021-03-16 15:03:54 528 stats-json-parse.c:428:free_stats_request: Free request=0x3272d0
2021-03-16 15:03:54 528 device-agent.c:1644:handle_cns_msg: MSG_STATS_ON_DEMAND_REQUEST
Complete
2021-03-16 15:03:54 528 wifi.c:1663:Received msg dest[2] from wifid to be sent to
controller;state[connected]
2021-03-16 15:03:54 528 wifi.c:1593:register_msg_to_controller: JSON Object:[243][{"sessId":
1391514672, "ap_mac": "58:c1:7a:0b:ee:fc", "type": "SageMar 16 15:03:54: wifid : DA
sent[25]: {"status": 1, "mType": 2} (cache.c:4044)
Mar 16 15:03:54: wifid : Dev register request for controller retry timer started, la2021-03-
16 15:04:13 528 log.c:207:start_cns_logging: Send log history (10 lines)
Mar 16 15:03:54: wifid : cnMaestro status updated to connected (cache.c:4022)
Mar 16 15:03:54: scmd : Device IP 10.110.200.40 (stats.c:233)
2021-03-16 15:03:54 528 device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:03:54 528 device-agent.c:2063:rx 697
[{"msgType":416,"ctrlrPayload":{"msgId":2,"ctrlHost":"","webHost":"wifibr.cambiumnetworks.c
om","w2021-03-16 15:03:54 528 device-agent.c:2065:PayLoad remaining is 0
2021-03-16 15:03:54 528 device-agent.c:1773:handle_cns_msg: Controller response message
received
2021-03-16 15:03:54 528 wifi.c:1563:handle_controller_rsp: JSON Object:[727][{"msgId": 2,
"guestKey": "JcAokexPcGasn6czwb7gxvS5ov1n_Jy-Yn-N0LgrfH8.",Mar 16 15:03:54: wifid : DA
sent[727]: {"msgId": 2, "guestKey": "JcAokexPcGasn6czwb7gxvS5ov1n_Jy-Yn-N0LgrfH8.",
"webNonSecured": 0, "st
Mar 16 15:03:54: wifid : From controller rcvd msg type[2], total recvd reply count[1]
(cache.c:3869)
Mar 16 15:03:54: wifid : Received registration reply from controller, use secured
connection2021-03-16 15:04:13 528 log.c:207:start_cns_logging: Send log history (10 lines)
Mar 16 15:03:54: wifid : CTRLR: secured, stats intrvl[1800], key idx[0] (hotspot.c:125)
Mar 16 15:03:54: wifid : Received 3 guest portal config entries (cache.c:3239)
Mar 16 15:03:54: wifid : Received portal Guest-portal 0 whitelist entries (cache.c:3256)
Mar 16 15:03:54: wifid : Received portal Guest_Portal_Global 11 whitelist entries
(cache.c:3256)
Mar 16 15:03:54: wifid : Received portal IP-pay 2 whitelist entries (cache.c:3256)
Mar 16 15:03:54: scmd : Mac F8-0B-CB-98-A5-51 IP 10.110.200.1 Iface eth0 Port 1 uplink 1
Wired (meshuplink.c:131)
2021-03-16 15:03:54 528 wifi.c:938:Stats read successfully cleanup g_scm fd
Mar 16 15:03:54: scmd : read failed (pid:475). error 0:Success (main.c:1439)
Mar 16 15:03:54: scmd : Exec rcv complete closing 70 (actions.c:97)
2021-03-16 15:03:54 528 wifi.c:1246:Got fcgi request on fd 0
2021-03-16 15:04:13 528 log.c:207:start_cns_logging: Send log history (10 lines)
2021-03-16 15:04:10 528 device-agent.c:659:PING_DATA: len=28 msg [{"Pid": "528", "Ploss":
"0"}]
2021-03-16 15:04:10 528 device-agent.c:371:da_alive_cb
2021-03-16 15:04:13 528 wifi.c:1316:fcgi_accept_cb: Accepted# 0 fd 0
2021-03-16 15:04:13 528 wifi.c:1246:Got fcgi request on fd 0
2021-03-16 15:04:13 528 wifi.c:1271:fcgi_rcv_cb: MSG_EXEC_CMD received on fd 0
2021-03-16 15:04:13 528 exec-cmd.c:1054:Command from cnMaestro: log
2021-03-16 15:04:13 528 exec-cmd.c:1110:Got duration 60
2021-03-16 15:04:13 528 exec-cmd.c:832:Starting command execution for log
2021-03-16 15:04:13 528 exec-cmd.c:836:Command execution timed for 60
2021-03-16 15:04:13 528 exec-cmd.c:841:start_exec_cmd: command [log] host []
```

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2021-03-16 15:04:13 528 log.c:207:start_cns_logging: Send log history (10 lines)
Mar 16 15:04:34: wifid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received
(cache.c:2792)
Mar 16 15:04:34: wifid : New neighbor 00-04-56-B1-65-3E bss 00-04-56-B1-67-00/00-04-56-B1-
6A-A0 tx-power 29/18 rssi 0/0 num-clients 0/0
Mar 16 15:04:38: wifid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received
(cache.c:2792)
Mar 16 15:04:38: wifid : New neighbor 00-04-56-B5-5F-E0 bss 00-04-56-B5-7F-70/00-04-56-B5-
A4-80 tx-power 18/21 rssi 0/0 num-clients 0/0
2021-03-16 15:04:39 528 device-agent.c:2062:callback_websocket: LWS_CALLBACK_CLIENT_RECEIVE
2021-03-16 15:04:39 528 device-agent.c:2063:rx 1969
[{"msgType":103,"stats":[{"fields":["uptime","link_speed","link_status","link_duplex","cpu",
"memo2021-03-16 15:04:39 528 device-agent.c:2065:Payload remaining is 0
2021-03-16 15:04:39 528 device-agent.c:1615:handle_cns_msg: MSG_STATS_REQUEST received
2021-03-16 15:04:39 528 stats-json-parse.c:502:parse_stats_request: Calling
parse_stats_object
2021-03-16 15:04:39 528 stats-json-parse.c:323:parse_stats_object: MALLOC request=0x3272a8
2021-03-16 15:04:39 528 stats-json-parse.c:324:parse_stats_object: stats request object 0/1,
periodic=1
2021-03-16 15:04:39 528 stats-json-parse.c:338:t_index = 2
2021-03-16 15:04:39 528 stats-json-parse.c:341:p_stats_info->interval = 300
2021-03-16 15:04:39 528 stats-json-parse.c:208:parse_fld_array: MALLOC request-
>fld_array=0x327c10
2021-03-16 15:04:39 528 stats-json-parse.c:113:Table size is 8
2021-03-16 15:04:39 528 stats-json-parse.c:150:parse_tbl_object: MALLOC request-
>tbl_array=0x327c88
2021-03-16 15:04:39 528 stats-json-parse.c:152:Iterate over table elements
2021-03-16 15:04:39 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x3280d0
2021-03-16 15:04:39 528 stats-json-parse.c:167:Parsing of Table [ radio_stats ] complete
2021-03-16 15:04:39 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_Page layoutarray=0x328248
2021-03-16 15:04:39 528 stats-json-parse.c:167:Parsing of Table [ ext_client_stats ]
complete
2021-03-16 15:04:39 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x3295a8
2021-03-16 15:04:39 528 stats-json-parse.c:167:Parsing of Table [ wlan_stats ] complete
2021-03-16 15:04:39 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x3294e0
2021-03-16 15:04:39 528 stats-json-parse.c:167:Parsing of Table [ port_status ] complete
2021-03-16 15:04:39 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329478
2021-03-16 15:04:39 528 stats-json-parse.c:167:Parsing of Table [ client_failures ] complete
2021-03-16 15:04:39 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329650
2021-03-16 15:04:39 528 stats-json-parse.c:167:Parsing of Table [ client_stats ] complete
2021-03-16 15:04:39 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329998
2021-03-16 15:04:39 528 stats-json-parse.c:167:Parsing of Table [ radio_rfstats ] complete
2021-03-16 15:04:39 528 stats-json-parse.c:63:parse_tbl_array: MALLOC request->table-
>fld_array=0x329a40
2021-03-16 15:04:39 528 stats-json-parse.c:167:Parsing of Table [ mesh_info ] complete
2021-03-16 15:04:39 528 stats-json-parse.c:377:Started pstats timer t_index=2 timer=0x329460
2021-03-16 15:04:40 528 device-agent.c:659:PING_DATA: len=28 msg [{"Pid": "528", "Ploss":
"0"}]}
Mar 16 15:04:43: wifid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received
(cache.c:2792)
Mar 16 15:04:43: wifid : New neighbor 58-C1-7A-E1-4F-E0 bss 58-C1-7A-E1-51-70/58-C1-7A-E1-
6A-70 tx-power 255/255 rssi 0/0 num-clients 0
Mar 16 15:05:03: wifid : notify msg type CMB_NOTIFY_MSG_TYPE_NEIGH_AP_DATA[21] received
(cache.c:2792)
Mar 16 15:05:03: wifid : New neighbor 58-C1-7A-0C-41-3E bss 58-C1-7A-0C-4C-E0/58-C1-7A-0C-
5F-A0 tx-power 24/28 rssi 0/0 num-clients 0/0
2021-03-16 15:05:08 528 device-agent.c:659:PING_DATA: len=28 msg [{"Pid": "528", "Ploss":
"0"}]}
2021-03-16 15:05:11 528 device-agent.c:371:da_alive_cb
```

Still not able to connect to cnMaestro, please take AP Techdump and share to Cambium Support / Engineering team:

1. Open AP UI
2. Go to operation --> System --> Down Load Techsupport

Cambium Networks™ cnPilot E600 - E600-0BEEFC

Please configure the Country of operation under **Configure->System**

Operations

Firmware update

Choose file No file chosen

Upgrade Firmware

Upgrade Status :

System

Reboot Download Tech Support Disconnect All Clients

Flash LEDs 10 Flash LED (1-120) seconds

Factory Default

Configuration

Export Import