

Introducing cnMaestro 4.0 and 4.0.1



Cambium Networks™

What's New in 4.0 and 4.0.1

4.0 Cloud available now

4.0.1 Cloud available May 25th

4.0/4.0.1 On-Prem available June 1st



NSE: SD-WAN, Security

- Site-to-Site VPN – 4.0
- PPPoE – 4.0
- SD-WAN - Flow preference (Layer 3 and 7) – 4.0
- Remote debugging – 4.0
 - Status, Debug, Remote CLI, Packet capture, Network Connectivity
- NSE Group Import – 4.0
- Configuration lock & Factory Reset – 4.0

Wi-Fi

- Application Control Policy – 4.0
- Advanced L2-L4 Firewall – 4.0
- Azure authentication & Sponsored guest portal – 4.0.1
- Dynamic channel selection based on country – 4.0.1

FWBB

- Assists for ePMP and cnPilot R-Series APs and cnMatrix – 4.0
- cnWave 60 GHz – Enhanced reports – 4.0



NSE: Site-to-Site VPN

- NSE 3000 supported client VPN and with this release supports site-to-site VPN
- Helps establish a secure communication channel between two networks/branches or as an alternative to MPLS circuits
- Supports 600 Mbps throughput and 16 IPSec tunnels

Site-to-Site VPN

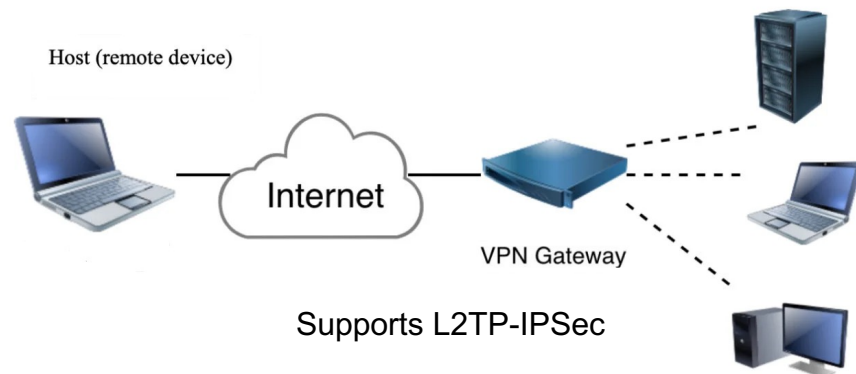
☒ Enable Bypass IPSec policies for locally attached networks

Apply Filter(s)

Name	IKE version	Role	Dead peer detection interval	Remote Address	Remote ID	Local ID	
Tunnel-to-cessna	IKE v2	Initiator	120	10.110.200.71	cessna	hawk	 
Add New							

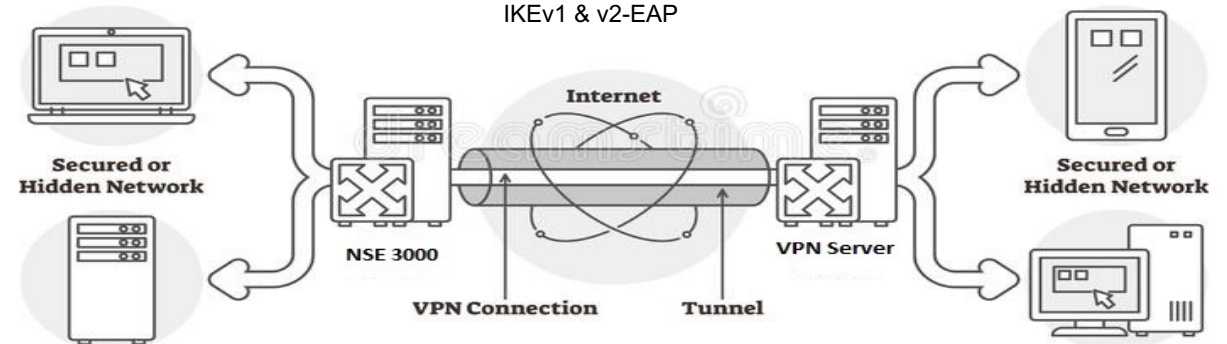
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Client VPN



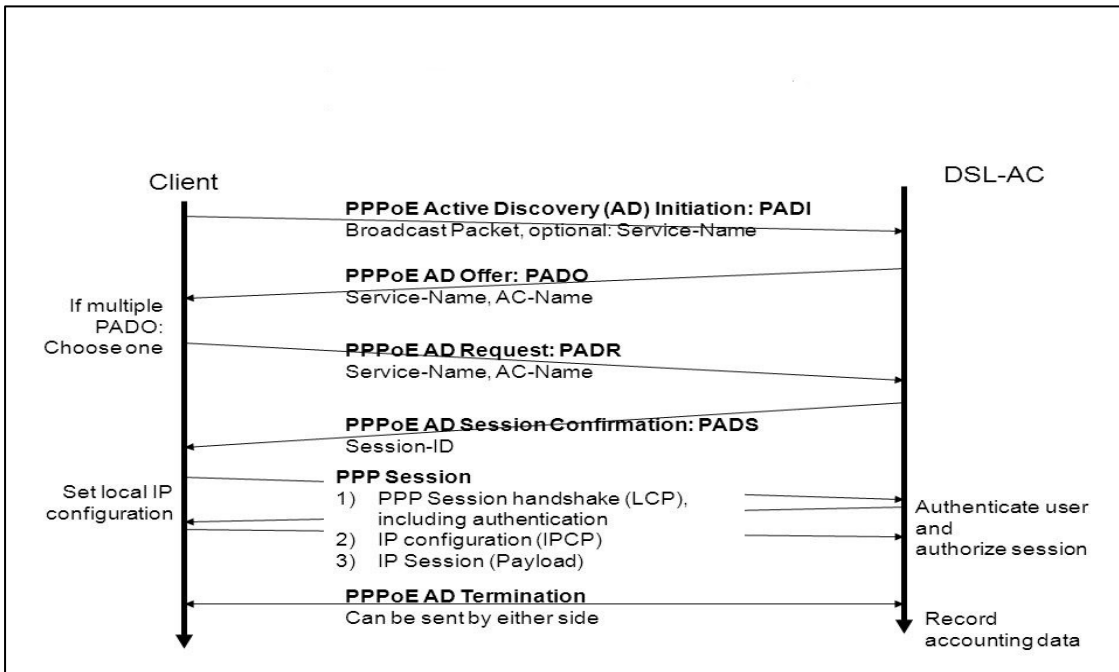
VPN Virtual Private Network

IKEv1 & v2-EAP



NSE: PPPoE

- NSE 3000 supports Static and Dynamic IP assignments and PPPoE adds a third IP assignment mode
- PPPoE is commonly used by ISPs to deliver Internet services, typically over broadband connections
- With PPPoE users are authenticated before they access network & IP addresses are dynamically allocated



The screenshot shows the NSE Groups > NSE-DEMO-CONFIG WAN Configurations page. The left sidebar contains a navigation menu with options: Basic, Management, Network, WAN (selected), Firewall, Threat Protection, VPN and RADIUS Server, and User-Defined Overrides. The main content area is titled "WAN Configurations" and has tabs for WAN-1 and WAN-2. The WAN-2 tab is active. The configuration fields include: IP Address Assignment (set to PPPoE), Account Name, Service Name (with a note: "Configure PPPoE service-name parameters (max 32 characters)"), User* (set to pppoeuser2), Password (masked with asterisks), MTU (set to 1492, with a note: "Configure MTU for PPPoE connection (500-1492 bytes)"), and several checkboxes: ☒ TCP MSS Clamping Enable TCP Maximum Segment Size Clamping to avoid packet fragmentation, ☐ Enable 802.1q VLAN tagging of frames, ☒ Enable SSH access to the device CLI, and ☒ Enable Source NAT.

NSE: SD-WAN Flow Control at WAN Edge

- Flow preference helps in binding Layer3/Layer7(host/destination/category/application) traffic with a specific WAN link
- With this feature one can bind the business-critical application to a more reliable and faster WAN link allowing WAN load balancing while still being able to route high priority traffic through a specific WAN interface.

Flow Preferences

Apply Filter(s)

iii

WAN	Policy	Type	Deep Packet Inspection (DPI) ...	DPI Applic...	DPI Cate...	Protocol	Source IP Add...	Mask	Port	Destination IP Add...	Mask
WAN-1	Flexible	layer7-filter	application	msteams	-	-	-	-	-	-	-
WAN-1	Flexible	layer3-filter	-	-	-	any	192.168.2.128	255.255.255.255	any	any	any

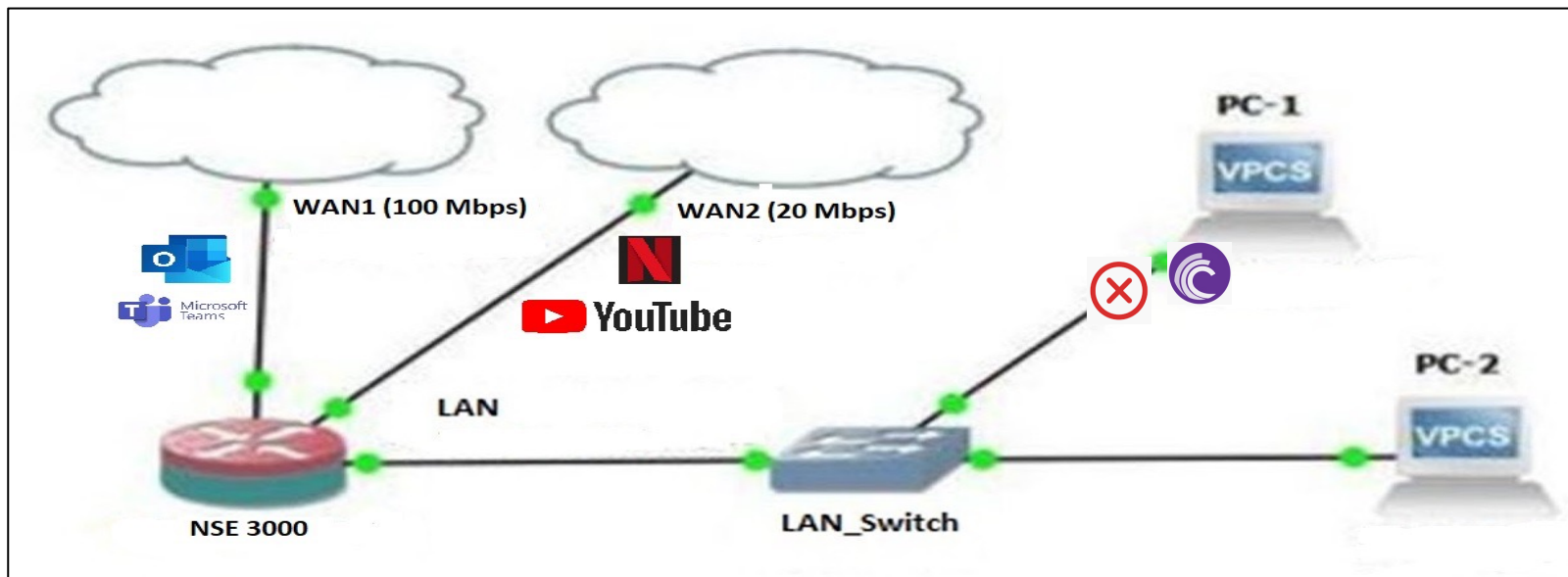
[Add New](#)

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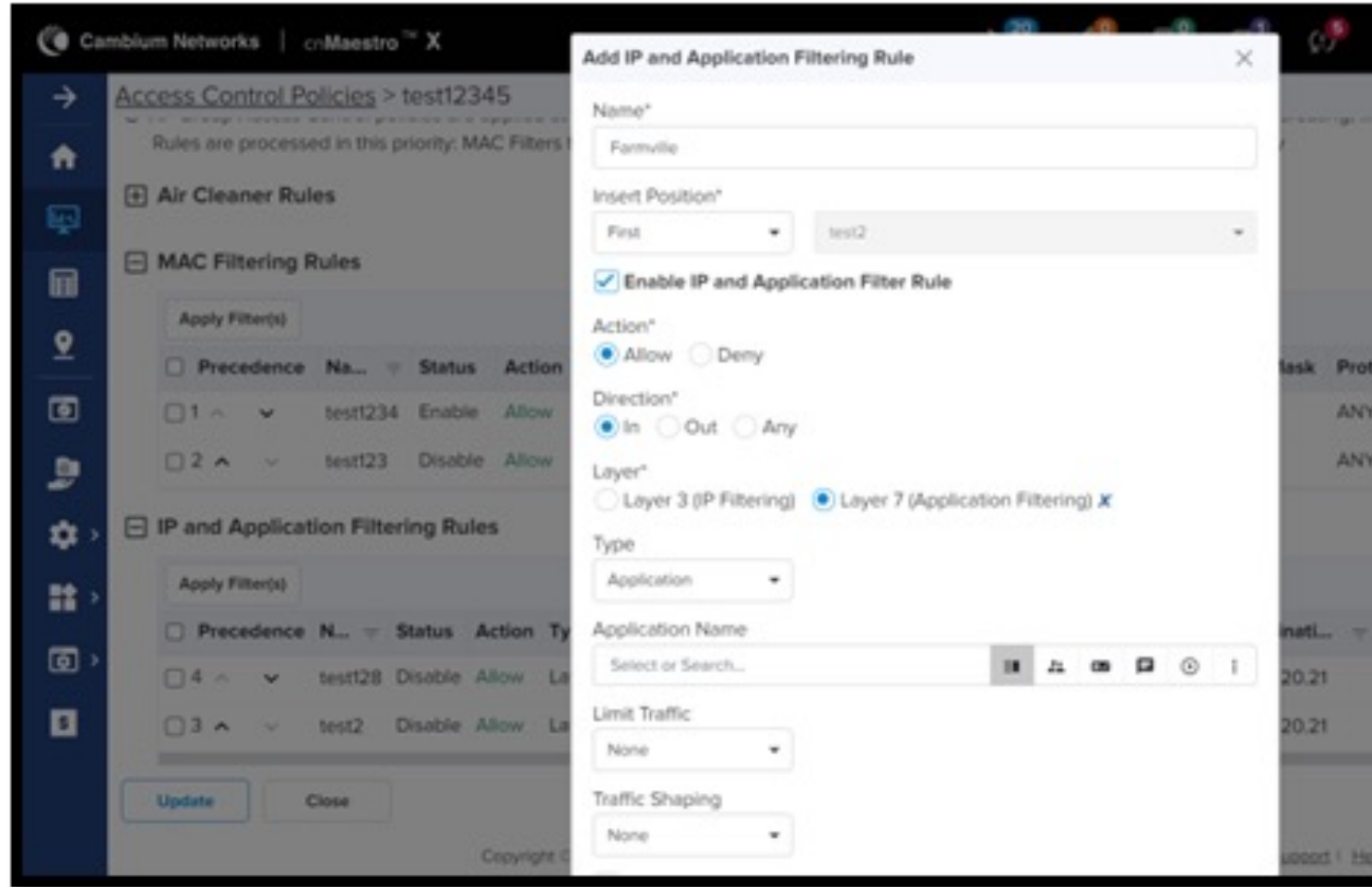
1

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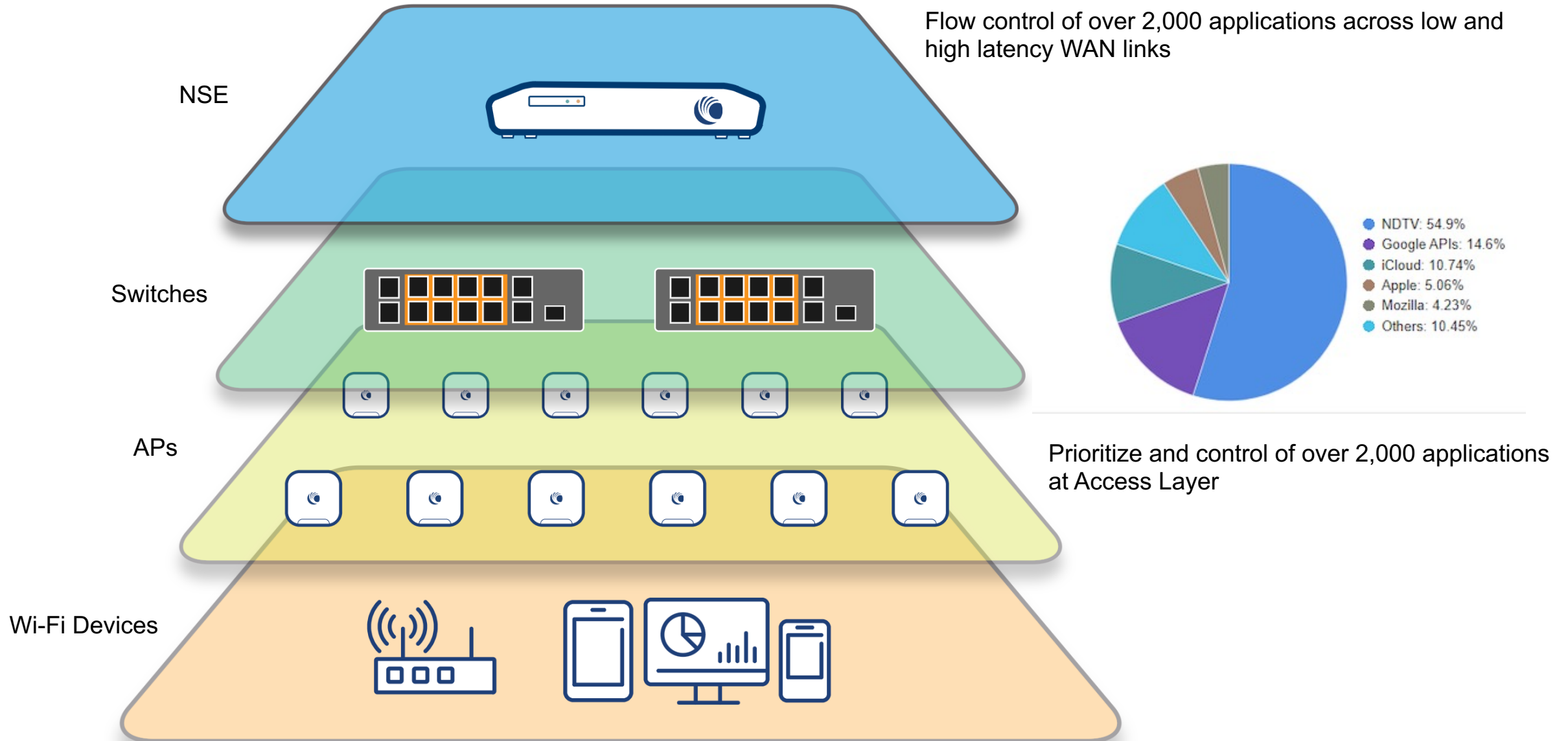


Application and Firewall Policies at the Access Layer

- Application Control rules (Layer 7)
 - Prioritize (QoS), Block, or Rate Limit
 - Over 2400+ applications supported
- Firewall rules (Layers 2-4)
 - Policies set on:
 - Source & destination MAC addresses
 - IP addresses, Protocols, Ports
- Supported on all Wi-Fi 6/6E access points

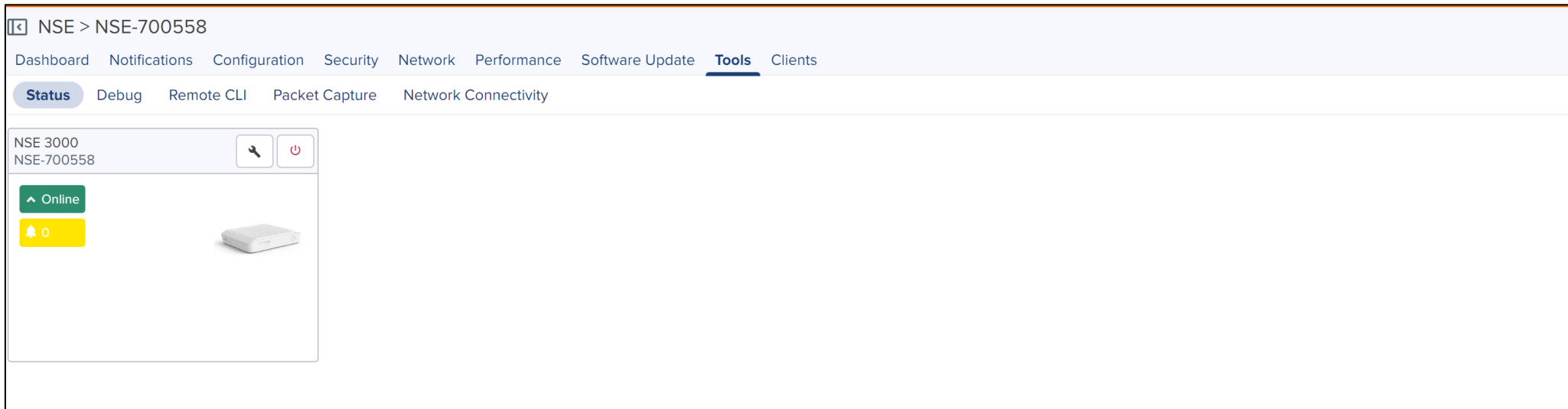


Application & Firewall Policies at Access Layer & WAN Edge

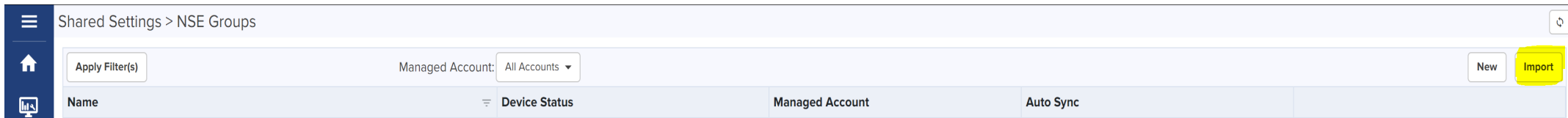


Remote debugging: Status, Debug, Remote CLI, Packet capture, Network Connectivity

- **Status:** Used to know the status of the device, download tech support report, and reboot the device
- **Debug:** Helpful in debugging and troubleshooting
- **Remote CLI:** For running the commands remotely without actually connecting to the device through SSH
- **Packet Capture:** Allows capturing the packets that passing over the devices. Helpful in troubleshooting
- **Network Connectivity:** Supports 3 different network connectivity tools Ping, DNS lookup and Traceroute




- NSE Group Import




- Configuration lock

Advanced Features

☒ Lock Wi-Fi AP/cnMatrix/NSE device Configuration  Changes made outside (such as through the Device UI) of a mapped configuration group (AP, Switch & NSE Groups) will be overwritten.

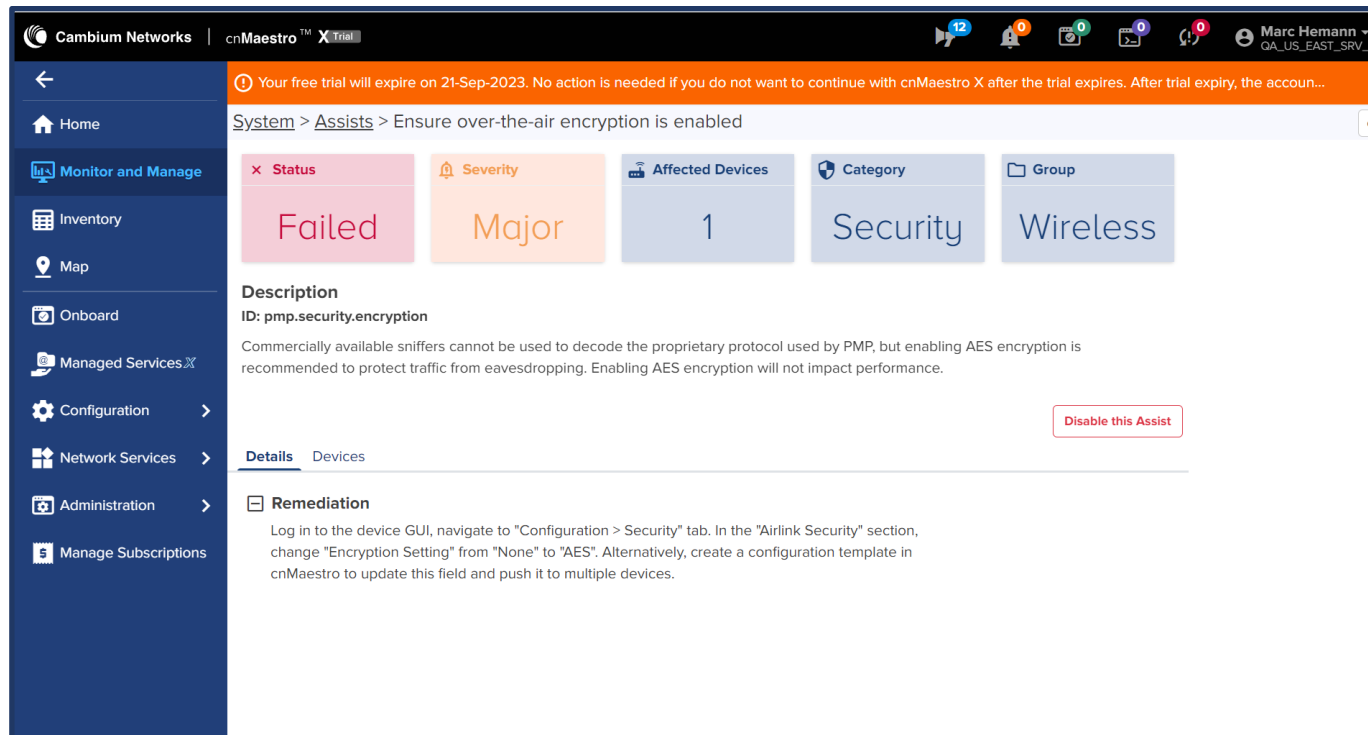
- Factory Reset

Factory Reset

 **Warning:** Before you get started, know that a factory reset will erase all the data on the device. You should first back up all your configuration data. The device may no longer be able to connect to the network (unless DHCP is set up correctly).

Factory Reset

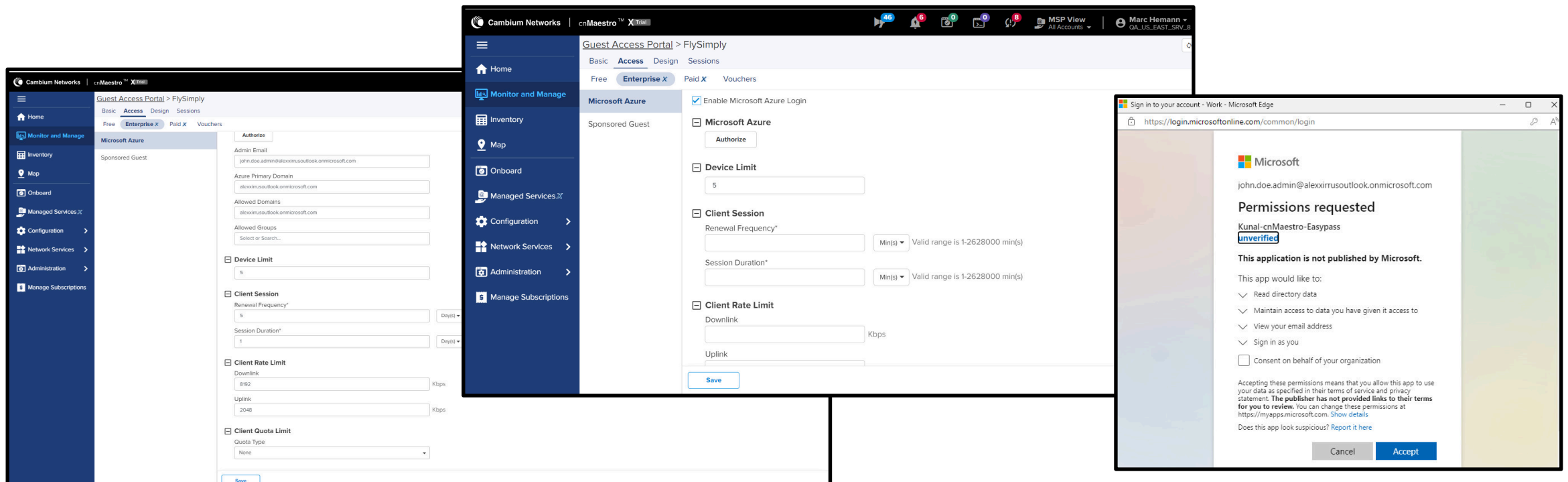
- Security audit tool
- Secure your network and improve NW performance by identifying and fixing configuration issues
- Supported in cnMatrix, cnPilot r-Series, and ePMP; Wi-Fi support in 4.1 release



The screenshot displays the cnMaestro X web interface. The top navigation bar includes the Cambium Networks logo, the product name 'cnMaestro X Trial', and a user profile for 'Marc Hemann'. A sidebar on the left contains navigation links: Home, Monitor and Manage, Inventory, Map, Onboard, Managed Services, Configuration, Network Services, Administration, and Manage Subscriptions. The main content area shows an 'Assist' titled 'Ensure over-the-air encryption is enabled'. It features a status bar with 'Failed' (red), 'Severity: Major' (orange), 'Affected Devices: 1', 'Category: Security', and 'Group: Wireless'. Below this, the 'Description' section explains that commercially available sniffers cannot decode the PMP protocol, but enabling AES encryption is recommended for protection against eavesdropping. A 'Details' tab is active, showing a 'Remediation' section with instructions to log into the device GUI, navigate to 'Configuration > Security', and change the 'Encryption Setting' from 'None' to 'AES'. A 'Disable this Assist' button is located in the bottom right corner of the assist details.

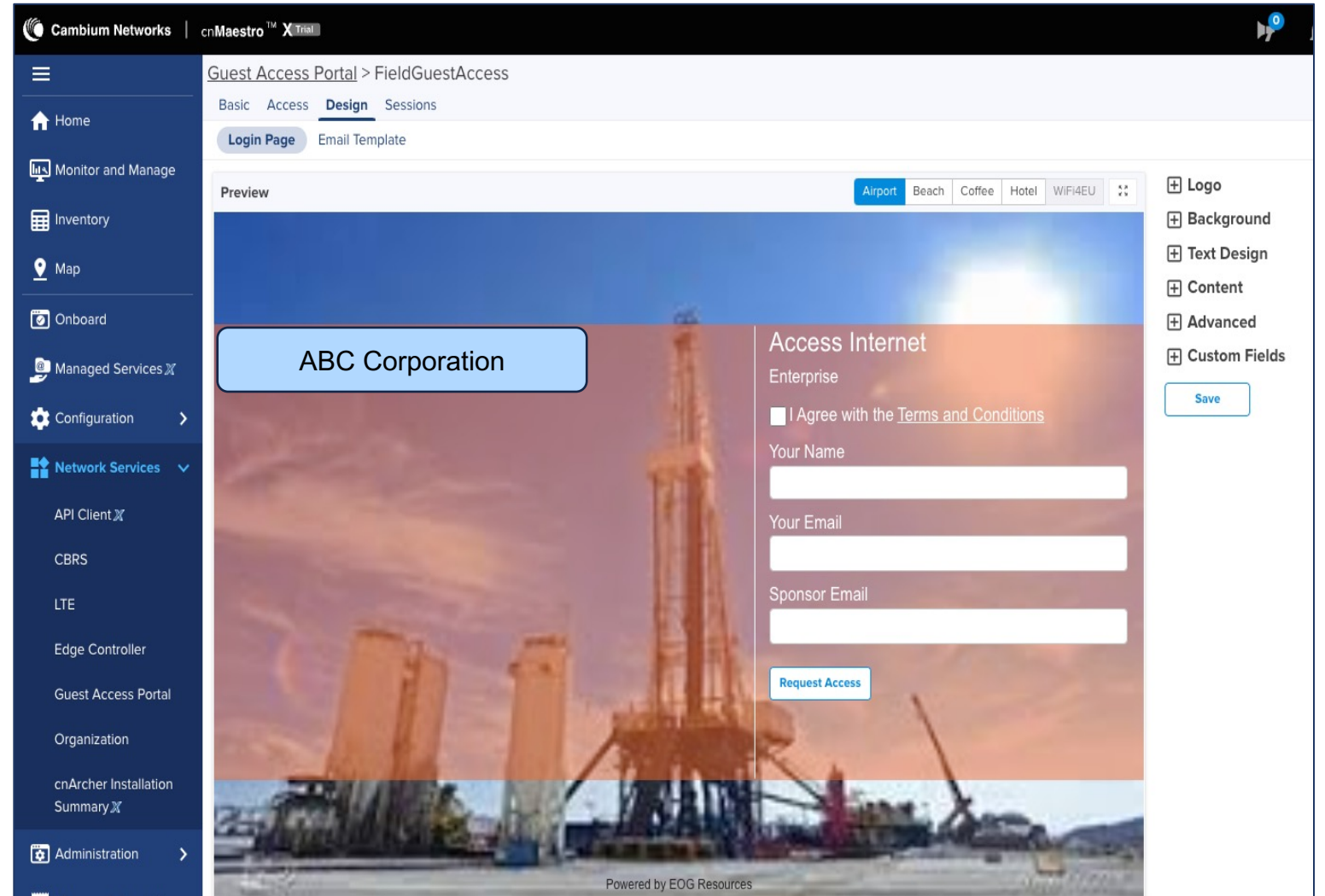
Microsoft Azure Authentication

- Simplifies the user experience with Single Sign On (SSO) to access both applications and Wi-Fi
- Login with existing Microsoft credentials
- Leverages company's Active Directory Structure
- Access to network, Azure environment, and local resources following successful authentication




Sponsored Guest Access

Allows network administrator to authorize guest using sponsored guest access





cnMatrix T20 Subscriptions


cnMaestro T20 subscriptions required for cnMatrix switches added to cnMaestro after March 1, 2023


 Cambium Networks


cnMaestro™ X


 Home


 Monitor and Manage


 Inventory


 Map


 Onboard

 Managed Services X

 Configuration >

 Network Services >

 Administration >

 Manage Subscriptions

Manage Subscriptions

Subscriptions Devices

This page provides a usage summary and a list of pending/active/expired subscriptions. It aids planning for renewals and the purchase of new subscriptions. It also supports editing the system generated subscription names to more user-friendly names for ease of tracking.
[Learn more](#)

Usage Summary

Device Tier	Pending	Available	Used	Expiring	Expired
Tier 1	0	39	12	0	0
Tier 2	0	17	2	0	0
Tier 3	0	57	53	0	0
Tier 4	0	10	0	0	0
Tier 5	0	10	0	0	0
Tier 20	0	8	18	0	0
Tier 30	0	14	6	0	0

Pending

Available

Used

Expiring

Expired

Search

Learn more about device tiers

Name	Type	Device Tier	Slots Used	Status	Start Date	End Date	Validity	Commercial ID	Description
Tier3-2022-09-12T00:39:14Z-439	New	Tier 3	<div><div></div></div> 25 / 50	Active	Sep 11, 2022	Sep 11, 2023	124 days	564b8199-7ff1-4752-b871...	
cnMaestro X Free Tier	Built-in	Free Tier	<div><div></div></div> 4	Active	Dec 17, 2020	Nov 03, 2023	177 days	N/A	cnMaestro X Free Tier
Tier 2-2023-01-24T20:28:36Z-33	New	Tier 2	<div><div></div></div> 1 / 9	Active	Jan 23, 2023	Jan 23, 2024	258 days	20050df7-3ef0-458f-b79c...	
Tier 1-2023-01-24T20:28:32Z-273	New	Tier 1	<div><div></div></div> 2 / 21	Active	Jan 23, 2023	Jan 23, 2024	258 days	20050df7-3ef0-458f-b79c...	
Tier 20-2023-03-17T07:06:31Z-143	New	Tier 20	<div><div></div></div> 2 / 10	Active	Mar 16, 2023	Mar 16, 2024	311 days	d57e70ad-90d6-4098-9a...	
Tier2-2022-04-14T15:46:08Z-429	New	Tier 2	<div><div></div></div> 1 / 10	Active	Jun 15, 2022	Jun 15, 2025	2 year 37 days	A-S00002078-8a12865b8...	
Tier3-2022-04-14T15:46:14Z-417	New	Tier 3	<div><div></div></div> 6 / 10	Active	Aug 21, 2022	Jun 15, 2025	2 year 37 days	A-S00002078-8a12865b8...	
Tier3-2022-04-14T15:46:10Z-396	New	Tier 3	<div><div></div></div> 22 / 50	Active	Jun 15, 2022	Jun 15, 2025	2 year 37 days	A-S00002078-8a12865b8...	
Tier1-2022-04-14T15:46:12Z-278	New	Tier 1	<div><div></div></div> 10 / 30	Active	Jun 15, 2022	Jun 15, 2025	2 year 37 days	A-S00002078-8a12865b8...	
Tier5-2022-08-01T07:09:15Z-278	New	Tier 5	<div><div></div></div> 0 / 10	Active	Aug 01, 2022	Aug 01, 2025	2 year 84 days	e6da4a47-6c72-4b48-944...	

Thank You

