Cambium Enterprise Wi-Fi and Google Orion Wi-Fi Deployment Guide

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Introduction

This document describes about the step by step instruction for integrating Google's Orion Wi-Fi with Cambium Enterprise Wi-Fi Access Points.

Sign up for Orion Wi-Fi

As a pre-request step, need to create Orion Wi-Fi account by following steps





Click "Get Started" to create your account and connect your Wi-Fi network.

Get Started

orion

- Enter your google account or you can use your corporate email address , instructions are mentioned
- In my example I have used my Gmail id for creating a Orion account, please find the below screen prints

| | Sig | n in | | |
|---|--|----------------------|--------------|----------------|
| | to continue to | area120.com | | |
| - Email or phone - | @gmail.com | | | |
| | a ann ann ann an th | | | |
| Forgot email? | | | | |
| Forgot email? | | | | |
| Forgot email? To continue, Googi profile picture with | ie will share your name, area120.com. | email address, langu | age preferen | ce, and |
| Forgot email? To continue, Googi profile picture with Create account | le will share your name, area120.com. | email address, langu | age preferen | ce, and |
| Forgot email? To continue, Googi profile picture with Create account | ie will share your name. . area120.com. | email address, langu | age preferen | ce, and ext |



Read and Accept the Terms of Service Agreement

| Onon | Orion |
|---|--|
| ORION SELLER TERMS OF SERVICE (US SELLERS) These Orion Seller Terms of Service ("Terms") are entered into between Google LLC (by and on behalf of its affiliates) ("Google," we' or 'us') and you ('Seller', "You' or "Your'). These Terms govern Your use of the Orion product and the provision of Services to Google (including sale of Your Capacity to Google). By accepting these torms (by clicking to accept the Terms, accepting the Terms via the sign-up flow for the Orion Product or by tollowing any other acceptance mechanism specified by Google). Seller accepts and agrees to be bound and about the therefore the Terms, accepting the Terms via the sign-up flow for the Orion Product or by productions and Interpretation. Capitalized terms used but not defined in these Terms have the meanings below. . 1. Orand Features ' means trade names, trademarks, logos, domain names and other distinctive brand features. . 2. 'Grand Features ' means the Wi-Fi or other wireless data service network capacity You offer for sale . 3. 'Gondiential Information' means information that one party (or an affiliate) discloses to the other confidential information under the circumstances. It does not include information that is independently developed by the recipient, Is rightfully given to the recipient by a third party without confidential information under the circumstances. It does not include information that is independently developed by the recipient, is rightfully given to the recipient by a third party without so the recipient by developed by the recipient. Is rightfully given to the recipient to be the recipient of the other is recipient to be other of the recipient of the recipie | Personal information in an agreed upon format, and (ii) securely delete, modify, or correspanticular individual's Personal Information from Your records. Compliance, You will be responsible, and liable to Google, for Your acts and omissions, includi unauthorized Accessing of Protected Information under Your custody or control. At any time u Google's request, You will cooperate with Google's reasonable efforts to assess compliance with statachment. Security Incident Response. Security Incident Response. Security Incident Response Program. You will maintain a reasonable incident response program respond to Security incidents. If You have reason to believe that a Security incident the socurity uprompty security and an email to external-incident/Second and an complex the security incident. This social complex description of the details known about the Security Incident. The social complex description of the details known about the Security incident. This notification is required even have nor conclusively established the narure or extent of the Security Incident. The social complex description of the details known about the Security incident. This notification is required even have nor conclusively established the narure or extent of the Security Incident. The societaria incident for indication. Disclosure of this Attachment to Government Agencies. As required by privation is, so around yo record of this Attachment to agency or regulatory autority. Certification of Understanding. By signing or executing the Agreement, You hereby certify, represent warrant that You understand and will comply with all restrictions imposed upon Your Access and restrictions on Secondary Use of Protected Information. |
| Please scroll to the bottom before accepting. | Please scroll to the bottom before accepting. |
| Accept Go Back Review later | Accept Go Back Review later |

Enter the basic business information to create the account

| Or | ION | | | |
|------------------------|-----|--------|---|--|
| Business Information | | | | |
| - Business Name | | | | |
| Cambium Networks | | | | |
| r- Business Address | | | | |
| 2590 North First Stree | t | | | |
| - Business Phone | | | _ | |
| 8888635250 | | | | |
| Name | | | 5 | |
| Azif | | | | |
| C Emeil | | | - | |
| @gmail.com | | | | |
| Back | | Finish | | |
| | | | | |



You will get an Orion login page and click on "configure your network", which will redirect you to the documentation page

| ÷ → C ■ orionwifi.area120.com/supply/Home | ≢/suppliers/btcm0ko2bl4m3l2nn56g | orion | | ☆ 🖾 Ο ∞ 😁 🖬 🖈 🚫 ፤ |
|--|--|--|-----------------|---|
| Cambium | | | | customer i btcm0ko2bl4m3l2nn56 |
| SUMMARY | MANAGE NETWORKS (1) | PRICING & PAYMENTS | ORION SETTINGS | HELP & SUPPORT |
| Welcome to Orion Wifi Watch this space for the latest product updates and • On September 8th, we publicly announced Orion Your Information Azif azif.cambium@gmail.com 2590 north first street 4087072609 | information as new features become available. In Wiff! Check out our <u>website</u> and <u>biogeost</u> for more details. | | | Complete Setup Basic Info Just sender Just sender Macape Mask: Info Saturd you Macape Mask: Info Saturd you Macape Mask: Info Saturd you Set Up payments Set this up to receive payment Configure Your Network Deployment Instructions |
| | | Orion Wilfi is built by Area 120 by Google. © 2020 Google LLC Privacy Terms | | |
| | | | Start a capture | |

Download RadSec Certificates from Orion

Next step is to download the RadSec Certificates from your Orion account, so that you can install a RadSec proxy and connect to Orion RadSec server.

https://docs.google.com/document/u/1/d/e/2PACX-1vSInmW7BBvl9LxNpOTavfftwYhAxs8beRI lETfip3W-1979b8BabV2HX7931QC4xc1j9GqVf_Zv0sye/pub#h.cf7ovk570ms3

Click on "Orion Settings" tab and click "Generate RadSec Certificate Bundle" for generating RadSec certificate bundle

| Cambium | | | | сизтомея btcm0ko2bl4m3l2nn56 |
|---------------------------------------|---|--------------------------|--|---------------------------------|
| SUMMARY | MANAGE NETWORKS (2) | PRICING & PAYMENTS | ORION SETTINGS | HELP & SUPPORT |
| RadSec • | | Orion Wifi 💶 ac | tive | |
| Last seen: about 2 hours ago | | If you no longer want to | o offer access to your network for Orion W | ifi users, you can disable it. |
| RadSec (RADIUS over TLS) certificates | allow RadSec connections with Orion Wifi. | Please consult our bes | t practices before disabling Orion Wifi. | |
| Generate Additional RadSec C | ertificates | | | |
| Need help configuring radsecproxy? Se | e Deploy and configure radsecproxy. | | | |



Click on "Download RadSec Certificate Bundle" and save to your local PC

| 🗄 🕆 😋 🔹 https://downlareal/sucom/supply/some | w/suppress/http://www.html.com/inc | | | ŵ 🔘 |
|--|------------------------------------|--|--|------------------------------|
| | | orion | | |
| Cambium Networks | | | | customes bulle682b14mr37i |
| SUMMARY | MANAGE NETWORKS (0) | PRICING & PAYMENTS | CHION SETTINGS | HELP & SUPPORT |
| adsec 🗢 | | Union Win active | | |
| to an initial and the property of the second se | | If you no longer want to offe | r access to your hetwork for Orion Wifi users, you can disable it. | |
| adSec (RADIUS case TI S) certificates allow RadSec connect | times with Chine Will. | Please consult our best to a | tieses before disabling Orion With | |
| | | Column Well in Award Psychone 1770 by Connection @ 2020 Decepte LLC: <u>Provery</u> <u>Zerman</u> | | |
| | | | | |
| | | | | |
| | | | | |
| radsec.zip A | | | | Show all |

Create Ubuntu VM for installing proxy RadSec

Create an Ubuntu VM and spawn a docker container for running RadSec. Note down the IP address of the VM, so that can be configured as the radius server in WLAN profile. And proxy RadSec running as a container in Ubuntu VM will initiate a RadSec connection to the Orion Radius server for TLS authentication.

Click the below URL for opening the RadSec Deployment and configuration

https://docs.google.com/document/d/e/2PACX-1vSl84bfdCireGISY87ZQxZfzq4-J1RVxhlx6zl2NnqO6A cvZkdxu7ojD02qB1-B5xdPlktICvH4t0ar/pub

| eploy and configure racsecproxy | | Updated automatically every 5 minut |
|---------------------------------|--|-------------------------------------|
| | Troubeshoot radsecprosy deployment errors | |
| | Deploy and configure radsecproxy | |
| | Do you need to set up radsecproxy? | |
| | If your verniess LAN controller doesn't support RadSec natively, you'll need to create one or more hosts and configure them to nur radisecproxy inside your environment. | |
| | Wireless LAN controllers with native RadSec support | |
| | Currently, the Junper Mark weekes LAN controller supports RADIUS over TLS (RudSec) natively. Junper Mistusers should not configure adsecprosy. Proceed directly to <u>Configure Junper Mistusers</u> should not configure adsecprosy. Proceed directly to <u>Configure Junper Mistusers</u> should not configure adsecprosy. | |
| | If your controller doesn't support RadSec natively | |
| | If you have any wireless LAN controller other than these mentioned above, use this guide to deploy and configure radiscoproxy. | |
| | You'll need to deate one or more hosts and configure them to run radiscapacy inside your environment. This can be an on premises VM instance or a cloud VM instance in a cloud services provider such as Amazon Web Services (AWS) or Grogle Cloud Platform (GCP). | |
| | It's common to treate radsecproxy using a virtual machine (VIV) hosting a Docker container. | |
| | • Download the Onion WiFi certificates ZIP file radsec zip contains the certificates you need to connect radsecproxy to Oron WiFi. | |
| | Set up the host environment Create a VM and configureit to host the Docker radisectoroxy container. | |
| | Deploy and configure the radsecurity container Configure radsecurity (standalone or high availability) to tunnel RADIUS requests over TLS (RadSee) to Orion WIFI, | |
| | Traffic from radirectroxy to Onion WP is encrypted, but traffic between your wireless controller and radirectroxy isn't encrypted. Make ensure that radirectroxy is deployed on the same secure methodik as your controller or use a virtual private network (VPW) to ensure one to-end encryption. | |
| | Download the Orion WiFi certificates ZIP file | |
| | You need certificates issued by Oron WIFi to configure radisceptroxy to verify and connect to Oron WIFi over TLS. Orion WIFi provides a certificate and key that identify individual fail to over the Sector Ameri | |



Please follow the below git commands to get the RadSec container and initialize the same in Ubuntu VM

| Deploy and configure radsecproxy | Y | Updated automatically every 5 minute |
|----------------------------------|---|--------------------------------------|
| | Download the Orion WiFi certificates ZIP file | |
| | You need certificates issued by Onion WiFi to configure radisecproxy to verify and connect to Orion WiFi over TLS. Orion WiFi provides a certificate and key that identify your organization, as well as the CA certificates that authoriticate Cerion WiFi. This information is it nadeac.zp. | |
| | Download radiosc.zp from the Onen/WFI portal in the Settings tab. | |
| | Configure radsecproxy | |
| | The yroxy solution for Onion WFI is to create a radisecproxy Docker mage running inside your on-premises environment (rear your wrevess controller) or in a cloud environment such as GCP or AWS. This solution provide connectivity between Orion WF and the RADIUS traffic coming through the wreates LAN controller. | |
| | Create a radsecproxy Docker container | |
| | Use these procedures to complete the configuratori of the VM instance and the radiscoproxy Docker image. | |
| | Uplead the Orion WFi certificate ZIP file to the VM instance | |
| | Novigate to the roas where you downloaded the Onion WIR certificates (redecczip). Copy radisec .21p into the host instance. | |
| | Download the container deployment scripts | |
| | Follow this procedure to download the radisecprony Docker Image. | |
| | Instal Git to close the container deployment scepts reporting. This reporting contains the setting reports that is calling the WH is instance with the somect Linux packages and tools to deploy the Dacker container. Enter these commands to stone the container deployment scripts repository. | |
| | <pre>sude get_get_install = sude get_get_install = y git git clone <u>https://github.com/poogle-atex120/erion-raisec.git</u> radsecproxy</pre> | |
| | Configure and start the radsecproxy Docker container | |
| | Run this script to start the radisectorory Docker service and to start the Docker image inside the VM instance. | |
| | ./radeecproxy/setup_scripts/build-container.sh radset.zip | |
| | The first time this script runs, it installs Docker, supporting tools, and configuration onto the instance. | |
| | The subpit should look similar to this example. | |
| | using the "billowing gift file for site credentials. /how/biorx/radsec.sip | |

Troubleshooting RadSec connection

RadSec proxy will establish the TCP connection with Orion RadSec IP address using port number 2083. If your organization firewall is blocking the port please request your IT department to unblock it.





If your organization is blocking the port or not able to reach the external RadSec, then you will see the below error



Passpoint configuration in cnMaestro

Navigate to "Configuration" -> "WLANs and AP Groups" for creating a new WLAN

| Č. | | | | | | | MSP Vie All Account | . d ^o 🔮 ef | | O Azif Abdulsalam - |
|----------------------|--------------------------|--------|-----------------|--|----------------|-------------|------------------------|-------------------------|-------------|---------------------|
| * | Configuration > WLANs | and AF | Groups | | | | | | | |
| ට Home | WLANS AP Groups | | | | | | | 3 | 1 | |
| R Manager | Q, Search | | Device Typ | ee: All → Scope: All Accounts → | | | | New WLAN | Import WLAN | Sync Configuration |
| мапаве | Name T | | Scope | Туре | AP Status | Clients Now | Clients 24 HR | Throughput (DL/UL) | | |
| Inventory | Tenant09 | 0 | 09_Tenant_test | cnPilot Enterprise (E-Series, ePMP Hotspot) | 0 of 2 offline | 0 | 0 | 0 Kbps / 0 Kbps | |] / × |
| Onboard | Default Enterprise | 0 | 09_Tenant_test | cnPilot Enterprise (E-Series, ePMP Hotspot) | 0 of 0 offline | 0 | 0 | 0 Kbps / 0 Kbps | |] / × |
| З мар ^{рее} | Default Home | 0 | 09_Tenant_test | cnPilot Home (R-Series) | 0 of 0 offline | 0 | 0 | 0 Kbps / 0 Kbps | | 🗋 🥜 🗙 |
| | SCOTT TEST | 0 | 07_Scott_home | cnPilot Enterprise (E-Series, ePMP Hotspot) | 0 of 1 offline | 0 | 0 | 0 Kbps / 0 Kbps | |] / × |
| Comgutation V | passpoint2 Orion cambium | 0 | 01_Cal Customer | cnPilot Enterprise (E-Series, ePMP Hotspot) | 0 of 0 offline | 0 | 0 | 0 Kbps / 0 Kbps | | 🗋 🖋 🗙 |
| Association ACL | sessiontimeout-cp | 0 | 01_Cal Customer | cnPillot Enterprise (E-Series, ePMP Hotspot) | 0 of 1 offline | 1 | 1 | 0.43 Kbps / 0.55 Kbps | | 🗋 🖋 🗙 |
| Switch Groups | mesh | 0 | 01_Cal Customer | cnPilot Enterprise (E-Series, ePMP Hotspot) | 0 of 1 offline | 2 | 0 | 36.61 Kbps / 48.94 Kbps | | ⊡ 🖋 × |
| WLANs and AP Groups | mesh_client | 0 | 01_Cal Customer | cnPilot Enterprise (E-Series, ePMP Hotspot) | 0 of 2 offline | 0 | 0 | 49.76 Kbps / 39.51 Kbps | | 🗋 🖋 🗙 |
| Services > | recovery | 0 | 01_Cal Customer | cnPilot Enterprise (E-Series, ePMP Hotspot) | 0 of 1 offline | 0 | 0 | 0 Kbps / 0 Kbps | | 🗋 🥒 🗙 |
| | Default Enterprise | 0 | 07 Scott home | cnPilot Enterprise (E-Series, ePMP Hotspot) | 0 of 0 offline | 0 | 0 | 0 Kbns / 0 Kbrs | [Z] | n / x |



Configure the SSID and Security as "WAP2 Enterprise (802.1x)"

| - | . = | | |
|--------------------|---|---|---|
| ← → C 🔒 us-e1 | -sb2-yzwimladmt.cloud.cambiumnetworks.cor | m/#/0/home-view/wlan/wlan=id@passpoint2_Orion_cambium+msp@lqReF/con | figuration/ 🕶 🕁 💋 🐽 💹 🏚 🔕 🗄 |
| C | | | MSP View 🕮 🖑 🚝 🖓 Azif Abdulsalam = |
| × | WLANs > passpoint2_Orior | n_cam <mark>biu</mark> m | |
| ☆ Home | Configuration APs | | |
| 🖉 Manage | WLAN > | Basic Information Type* | |
| | AAA Servers | cnPilot Enterprise (E-Series, ePMP Hotspot) | • |
| Inventory | Guest Access | Name* | |
| 💱 Onboard | Access Control | passpoint2_Orion_cambium | |
| ∰ MSP | Passpoint | Scope 01_Cal Customer | |
| {ဌိ} Configuration | ePSK | Description | |
| Ot services | | | |
| @ | | Basic Settings | |
| 19 Application | > | SSID | |
| | | Enable | |
| | | SSID* OrionWiFi | The SSID of this WLAN (up to 32 characters) |
| | | Mech | |
| | | Off | Wesh Base/Client/Recovery mode |
| | | VLAN* | |
| | | 12 | Default VLAN assigned to clients on this WLAN (1-4094) |
| | | Security | |
| | | WPA2 Enterprise (802.1X) | Set authentication and encryption type |
| | | Radios | Define radio tunes (2.4GHz 5GHz) on which this WI AN should be sunnorted |
| | | 2.4GHZ and 5GHZ | Oranie nanie głosi (siewistowista) au sujist si na sie andytorska |
| | | Disable | When selected, it allows wireless clients connected to the same AP or different APs to communicate with each other in the same VLAN |

Configure the AAA server as the local Ubuntu VM that is running the RadSec proxy server.

| 11c | | | | | | MSP View | | 00 | _2 | O Azif Abdulealam - |
|-------------------|---|---------------------------|---|--|------|--------------------|-------|-----|----|---------------------|
| | | | Second Diversion | | | All Accounts + III | Ċ | 510 | 10 | CD CAMBIUM_01_MSP |
| | * | wLANS > passpoint2_Orion_ | _cambium | | | | | | | |
| 6 Home | | Configuration APs | A Warning AAA Servers are configured senarately for ear | h WI AN | | | | | | |
| Ry years | | WLAN | Authentication Server | an an base | | | | | | |
| 62 manage | | AAA Servers > | 1. Host | Secret | | Port* | Realm | | | |
| Inventory | | Guest Access | 172.20.10.59 | | Show | 1812 | | | | |
| AV ashered | | | 2. Host | Secret | | Port* | Realm | | | |
| Sa Onboard | | Access Control | | | Show | 1812 | | | | |
| ∰ MSP | | Passpoint | 3. Host | Secret | | Port* | Realm | | | |
| (h) a a u | | ePSK | | | Show | 1812 | | | | |
| ços configuration | | | Timeout | Timeout in seconds for each request attempt (1:30) | | | | | | |
| Services | | | 3 | | | | | | | |
| | | | Attempts | Number of attempts before giving up (1-3) | | | | | | |
| A Application | | | - Accounting Server | | | | | | | |
| | | | | | | | | | | |
| | | | H Advanced Settings | | | | | | | |
| | | | Save | | | | | | | |



Configure the Passpoint with below settings

| 6 Home | Configuration APs | | | | |
|--|--|--|--|---|--|
| | WEAK | Basic Sattings | | | |
| 🖉 Manage | | Enable Passpoint (Release 2) enables a secure hotspot net | work access, online sign up and Policy Provisioning | 7 | |
| inventory | South Annual Servers | DGAF Downstream Group Addressed Forwarding, When er | abled the WLAN doesn't transmit any multicast and broadca | ast packets | |
| | Guest Access | ANQP Domain ID | ANQP domain identifier (0-65535) incl | uded when the HS 2.0 Indication element is in Beacon ar | d Probe Response frames |
| Sy Onboard | Access Control | Comeback Delay | | | |
| 🗊 MSP | Passpoint > | 0 | Comeback delay in milliseconds. Supp | ported range is 100-2000 ms, use 0 to disable | |
| က်နှံ Configuration | ePSK | Access Network Type | - The configured Access Network Type i | s advertised to STAs, | |
| Services | > | ASRA Additional Sten Required for Arcere indicate that th | e network remuires a further sten for arcese | | |
| | | Internet The network provides connectivity to the Internet | ;, Otherwise unspecified | 1 | |
| VX Application | , | HESSID | | - | |
| | | New Serve | Configure the desired specific Ressio | | |
| | | Mercantile | Configure Venue group and Venue type | e | |
| | | Venue Type | | 1 | |
| | | Shopping Mall | | | |
| | | | | | |
| | | | | MSP View All Accounts | . 4" 0" ef |
| | WLANs > passpoint2_0 | Drion_cambium | | | |
| Ch Home | Configuration APs WLAN | HESSID | | | |
| 19 Manage | AAA Servers | | Configure the desired specific HESSID r | network identifier or the wilccard network identifier | |
| manage | Guest Access | Venue Group | Configure Views and Martin | | |
| Inventory | Access Control | Mercantile | Contigure Venue group and Venue type | | |
| 🖉 Onboard | Passpoint > | Venue Type Shopping Mall | • | | |
| 🛱 мар | ePSK | 🖃 Roaming Consortium | | | |
| n carbourne | er sit | The roaming consortium and/or SSP whose security credent | ials can be used to authenticate with the AP | | |
| çõ3 Coniiguration | ` | F4F5E8F5F4 | | | |
| Services | ÷ | | | | |
| 入우 Application | ÷ | Add New | | | Showing 1 - 1 Total: 1 |
| | | Domain Names Configure a list of one or more domain names of the entity o Domain Names | perating the IEEE 802.11 access network | | |
| | | orionwifi.com | | | |
| | | Add Now | | | Character 1 - Tetals 1 |
| | | Photo 1557 | | | 500W081*1 10tal:1 |
| \leftrightarrow \rightarrow C \blacksquare us-e1-s | sb2-yzwimladmt.cloud.cambiumnetworks.com | /#/0/home-view/wlan/wlan=id@passpoint2_Orion_cambium+msp@lqReF/con | liguration/ | 04 | 🛧 💆 🛛 🕬 💹 🗯 🔕 |
| | | | | MSP View 🕺 🖉 1 | Azif Abdulsalam Consilum_or_wsp |
| C | WLANs > passpoint2_Orion | _cambium | | | |
| () * | Configuration APr | | | | |
| ੴ ★ | Configuration APs WLAN | □ NAI (Network Access Identifier) Realm List | | | |
| ★ Annage | Configuration APs WLAN AAA Servers | NAI (Network Access Identifier) Realm List Configure list of network access identifier (NAI) realms corresponding to SSP NAI List Nam | s or other entities whose networks or services are accessible vi | Encoding | |
| Korne Annage Inventory | Configuration APs WLAN AAA Servers Guest Access | NAI (Network Access Identifier) Realm List Configure list of network access identifier (NAI) realms corresponding to SSP NAI List Nam 1 Orio | s or other entities whose networks or services are accessible vi re 1-Realm | a this AP Encoding false | / × |
| Kone → Home Manage Inventory Strobard | Configuration APs WLAN AAA Servers Guest Access Access Control | CH4N (Network Access Identifier) Realm List Configure lat of network access Identifier (IW) realms corresponding to SSP NALIST NALIST NATORIA (INTERNITY) NATORIAN (INTERNITY) (INTERNITY) (INTERNITY) (INTERNITY) (INTERNITY) (INTERNITY) (INTE | s or other entities whose networks or services are accessible vi re n-Realm | a this AP Encoding faise | # × |
| Kone ↑ Home Manage Manage Inventory ↑ Onboard Part uns ⁶⁶ | Configuration APs WLAN AAA Servers Guest Access Access Control Passpoint 2 | HAU (Network Access Identifier) Realm List Configure las of network access Identifier (IM) realms corresponding to SSP NAU List Nam 1 Orio Add Item | s or other entities whose networks or services are accessible vi ne n-Realm | a this AP Eccoding false Shewing 1 - 1* | ytak1 10 - ← Previous (1) Hest 1 |
| Home Manage Manage Inventory Onboard ₩45²⁰ | Configuration Ars WLAN AAA Servers Ouest Access Access Control Passpoint > erSik | HAI (Network Access identifier) Realm List Configure last of network access identifier (NAI) realms corresponding to SSP NAI List Nam 1 Orio Add tase Origerator Friendly Names Configure zero or more operator names who are operating the IEEE 822.11 a | s or other entities whose networks or services are accessible v ne neaem cess network i.e., the Hotspot Operator | a this AP Encoding faite Streeting 1 - 1 | ✓ × Bill 19• < Presides 1 Ment 1 |
| ★ Home ★ Manage ★ Manage Manage Manage Manage Manage ★ Manage ★ Onboard ★ Map ^{nee} | Configuration Ars WLAN AAA Servers Ouest Access Access Control Passpoint > erSK | HAI (Network Access identifier) Realm List Configure list of network access identifier (NAI) realms corresponding to SSP NAI List Nam 1 Orio did trac Operator Friendly Names Configure and or more operator names who are operating the IEEE 802.11 a Language Code | s or other entities whose networks or services are accessible vi e e.Realm cress network i.e., the Hotspot Operator Operator Name Network i.e., the Hotspot Operator | a this AP Encoding faite Stroomg 1 - 1 | Ø X eakt 22° ←Freenan () hort |
| ★ Home ↓ Home ↓ Manage ↓ Manage ↓ Inventory ↓ Inventory ↓ Onboard ⊕ Lop ⁶⁰ ⊕ Configuration > ♦ Services > | Configuration Ars WAAN AAA.Servers Guest Access Access Control Passpoint > ePSK | HAI (Network Access identifier) (Realm List Configure list of network access identifier (NAI) realms corresponding to SSP NAU List Nam 1 Orio diffuse Operator Friendly Names Configure and or more operator names who are operating the IEEE 82.21 a Language Code | s or other entities whose networks or services are accessible vi n-flealm cess network Le., the Hotspot Operator Operator Name No Entries | a this AP Encoding failse Showing 1 - 1 | Vali 15* (People) here |
| ★ Home ★ Home ↓ Hom ↓ Home ↓ Home ↓ Home <p< td=""><td>Configuration Ars WAAN AAA Servers Guest Access Access Control Passpoint > ePSK</td><td>HAIL (Network Access identifier) (NAI) realms corresponding to SSP NAI List Configure list of network access identifier (NAI) realms corresponding to SSP NAI List I Onio diffuse Configure zero or more operator names who are operating the IEEE 802.11 a Language Code diffuse</td><td>s or other entities whose networks or services are accessible vi n-Realm cess network La., the Hotspot Operator Operator Name No Entrifes</td><td>a bis AP Encoding faise Showing 1 - 1</td><td>Vali 15* (People) her:</td></p<> | Configuration Ars WAAN AAA Servers Guest Access Access Control Passpoint > ePSK | HAIL (Network Access identifier) (NAI) realms corresponding to SSP NAI List Configure list of network access identifier (NAI) realms corresponding to SSP NAI List I Onio diffuse Configure zero or more operator names who are operating the IEEE 802.11 a Language Code diffuse | s or other entities whose networks or services are accessible vi n-Realm cess network La., the Hotspot Operator Operator Name No Entrifes | a bis AP Encoding faise Showing 1 - 1 | Vali 15* (People) her: |
| Home Home Manage Inventory Onboard Map^{Ren} Configuration Services Application | Configuration Ars WAAN AAA Servers Guest Access Access Control Passpoint > ePSK | HAI (Network Access Identifier) Realm List Configure Int of network access Identifier (NA) realma corresponding to SXP NAI List Nam 1 One distance Goverance Friendly Names Configure zero or more operator names who are operating the IEEE 802.11 a Language Code distance Different Provided Streamers Configure zero around operator names who are operating the IEEE 802.11 a Language Code distance Giff Pubdress Type Information Configure availability of the address vesion and type that could be allocated | s or other entities whose networks or services are accessible vi network cess network Le., the Hotspot Operator Cess network Le., the Hotspot Operator Operator Name No Entrifes o the STA after successful association | a bis AP Encoding faise Stroom g 1 - 1 | ₩ X Wali 20* (Permin () her: |
| I Home I Home I mventory | Configuration Ars WAAN AAA Servers Guest Access Access Control Passpoint > ePSK | HAI (Network Access Identifier) Realm List Configure Into 4 metwork access Identifier (NA) realma corresponding to S3P ADI List ADI L | s or other entities whose networks or services are accessible vi network temport of the services are accessible vi network Le., the Hotspot Operator Operator Name No Entrilos o the STA after successful association | a bis AP Encoding faile Stroom g 1 - 1 | ₩ X Waki 20* (Permin) here: |
| ★ Home ↓ Home ↓ Home ↓ Manage ↓ Manage ↓ Inventory ♦ Ontheard ⊕ Maraña ♦ Services ↓ Application | Configuration Ars WAAN AAA Servers Guest Access Access Control Passpoint > @PSK | HAI (Network Access Identifier) Realm List Configure Into directory access Identifier (NA) realma corresponding to S3P ADI List Configure Into directory access Identifier (NA) realma corresponding to S3P dot Issue Governator Friendly Names Governator Friendly Names Configure and on more operation names who are operating the IEEE 802.11 a Language Code dot Issue Governator Friendly Names Configure and access provide the IEEE 802.11 a Language Code dot Issue dot Issue dot Issue Governator friendly Names Configure and access prove Information Configure availability of IP address version and type that could be allocated Invest Invoit Poe Tope | to or other entities whose networks or services are accessible vi ne network Le., the Hotspot Operator cess network Le., the Hotspot Operator Operator Name No Entries to the STA after successful association | a bis AP Encoding faile Showing I - 1 | tali 22™ (Press) () ber |
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| ★ Home Manage < | Configuration Ars WAAN AAA Servers Guest Access Access Control Passpoint > @PSK | Add Network Access Identified Realm List Configure into 4 methods access Identified (NM) realms corresponding to SSP Add List Configure into 4 methods access Identified (NM) realms corresponding to SSP add trace Operator Friendly Names Configure and on the operator names who are operating the IEEE 802.11 a Language Code add trace Default Configure and the IEEE 802.11 a default Configure Information Configure Information Configure Information Inote Inote Inote Configure Information Configu | a or other entities whose networks or services are accessible view network i.e., the Hotspot Operator ccess network i.e., the Hotspot Operator Operator Name No Entries to the STA after successful association Configure Network authentication Type ble. The Global operating classes in Table E-4 of IEEE Std 8022 | ta bis AP Encoding False Strong 1 - 1 Strong 1 - 1 | E.g. 81,115 where 81=1.13 115=06-48) |



| List | | * C | onfigure NAI profile | | | | |
|------------------|------------------|--------|----------------------|--------|---|-------|---|
| ne rion-Realm | |)[| UTF-8 Encoding | | | | |
| P List | | | | | | | |
| AP Method | Auth 1 | Auth | 2 | Auth 3 | A | uth 4 | _ |
| EAP TLS | Inner Auth EAP C | ertifi | | | | | ø |
| | | | | | | | |
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| 1 | | | | | | | |
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| FAPTIS | | • | | | | | |
| | | | | | | | |
| Authentication 1 | | 1 | Oastificanta | | | | |
| Inner Aum EAP | | • | Certificate | | • | | |
| Authentication 2 | | 5 | Comments | | | | |
| NONE | | • | NONE | | • | | |
| Authentication 3 | | | | | | | |
| NONE | | • | NONE | | • | | |
| Authentication 4 | | | | | | | |
| NONE | | • | NONE | | • | | |
| | | | | | | | |
| Save | ncel | | | | | | |

Save the WLAN configuration



Create AP Group and attach the same to Enterprise Wi-Fi AP

Navigate to "configuration" -> "WLANs and AP Group" -> click "New AP Group"

| 6 | | | | | | | | | MSP View | J E |) (<mark>2</mark> | О Azif Abdulsalam + D самвим_01_мSP |
|--------------------------------|-----------------------------|--------|--|------------------|----------------------------|-------------|---------------|-------------------------|----------------------------|--------------|--------------------|--|
| ★ | Configuration > WLAN | ls and | d AP Groups | | | | | | 3 | | | 0 |
| 🎜 Manage | Q Search Name T | | Device Type: All - | Scope: All Accou | nts + WLAN: All + Scope | Clients Now | Clients 24 HR | Throughput (DL/UL) | WLANS | New AP Group | Import AP Group | Sync Configuration |
| | Tenant09 | 0 | cnPilot Enterprise (E-Series, ePMP Hot | 0 of 2 offline | 09_Tenant_test | 0 | 0 | 0 Kbps / 0 Kbps | Tenant09 | ON | | ≛ / × |
| 💱 Onboard | Default Enterprise | 0 | cnPilot Enterprise (E-Series, ePMP Hot | 0 of 0 offline | 09_Tenant_test | 0 | 0 | 0 Kbps / 0 Kbps | Default Enterprise | ON | | ± / × |
| | Default Home | 0 | cnPilot Home (R-Series) | 0 of 0 offline | 09_Tenant_test | 0 | 0 | 0 Kbps / 0 Kbps | Default Home | OFF | | 🛓 🖋 🗙 |
| 5 ¹ 2 Configuration | clonehomenew-wifi 600 clone | 0 | cnPilot Enterprise (E-Series, ePMP Hot | 0 of 1 offline | 01_Cal Customer | 0 | 0 | 0 Kbps / 0 Kbps | ssid1-8021x-kloudspot, c | lo ON | |) 📩 🖋 🗙 |
| çaş conniguration 🗸 | XV2-passpoint clone | 0 | cnPilot Enterprise (E-Series, ePMP Hot | 0 of 0 offline | 01_Cal Customer | 0 | ō | 0 Kbps / 0 Kbps | passpoint2 Orion cambi | um ON | | 🛓 🖋 🗙 |
| Association ACL | SCOTT TEST | 0 | cnPilot Enterprise (E-Series, ePMP Hot | 0 of 1 offline | 07_Scott_home | 0 | 0 | 0 Kbps / 0 Kbps | SCOTT TEST | ON | |) 📩 🖋 🗙 |
| Templates | Ashburtonwifi | 0 | cnPilot Enterprise (E-Series, ePMP Hot | 0 of 1 offline | 01_Cal Customer | 3 | 3 | 3.31 Kbps / 0.62 Kbps | sessiontimeout-cp., Azif-v | (p ON | | 🛓 🖋 🗙 |
| WLANs and AP Groups | Ashburtonwifi e700 | 0 | cnPilot Enterprise (E-Series, ePMP Hot | 0 of 1 offline | 01_Cal Customer | 0 | 0 | 35.93 Kbps / 49.33 Kbps | e700-wlan1, recovery, m | esh ON | | 🛓 🖋 🗙 |
| St Services > | Ashburtonwifi e700 client | 0 | cnPilot Enterprise (E-Series, ePMP Hot | 0 of 2 offline | 01_Cal Customer | 0 | Q | 50.12 Kbps / 39.49 Kbps | mesh client, e700-wlan1 | ON | | ± / × |
| | homenew-wifi clone | 0 | cnPilot Enterprise (E-Series, ePMP Hot | 0 of 1 offline | 01_Cal Customer | 0 | 0 | 0 Kbps / 0 Kbps | homenew-wifi5, homene | <u>w-</u> ON | | 1 📩 🖋 🗙 |
| 20 Application > | | | | | | | | | Showing 1 - 10 Tota | 1 49 10 ¥ | C Previous 1 2 | 3 4 5 Next > |

Navigate to "configuration" -> "WLANs and AP Group" -> click "New AP Group"

| \leftrightarrow C \square us-e1-s | b2-yzwimladmt.cloud.cambiumnetworks.com/ | #/0/home-view/APGroup/profile=id | id@XV2-passpoint_clone+msp@lqReF/configuration/ 🗠 😒 🎽 🥥 😕 🗮 🌲 |
|---------------------------------------|--|----------------------------------|--|
| | | | MSP View 🛄 💬 🛒 🗛 Azif Abdula |
| | Search | AP Groups XV2-p | passpoint clope |
| ~ | Networks Wi-Fi AP Groups | Dashboard Notifications Con | onfiguration Statistics Report APS Clients Mesh Peers and |
| ப் ^{Home} | ADDE hall hamanau uifi | | Daris Information |
| | APOS-hall-homenew-with | Basic > | basic more than the second sec |
| | | Management | rype conflict Enterprise (E-Series, ePMP Hotspot) |
| Inventory | Ashburtonwifi clone | Radio | Name* |
| Onboard | Ashburtonwifi e500 SM | Network | XV2-passpoint_clone |
| Chound | Ashburtonwifi e700 | NELWORK | Scope |
| MSP MSP | Ashburtonwifi e700 client | Security | 01_Cal Customer |
| 9 AURILIAN - | > Ashburtonwifi_e700_SM | Services | Auto Sync Automatically push configuration changes to devices sharing this AP Group |
| 25 Configuration > | Clone_clone | User-Defined Overrides | Country" |
| Services > | > 🔄 clonehomenew-wifi_600_clone | | United States V For appropriate regulatory configuration |
| | > 🔄 CW | | Location |
| Application > | > 🖸 CVV_meshclient | | Location where this device is placed (max 64 characters) |
| | Default Enterprise | | Contact |
| | Default Home | | Contact information for the device (max 64 characters) |
| | home-e430 | | Description |
| | > 🔄 homenew-wifi | | |
| | > 🔄 homenew-wifi_clone | | Placement |
| | new-apgroup | | Indoor Outdoor Configure the AP placement details |
| | > 🔄 newapgroup-test_clone | | PoE Output |
| | XV2-passpoint_clone i | | |
| | > 1 02_Education_Texas_Dist | | LED Whether the device LEDs should be ON during operation |
| | > 🕲 03_DuVin_Wi-FI | | LDP Whether the AP should transmit LLDP packets |
| | > 🔘 04_Retail_Dist | | WLAN |
| | > 🔘 05_Christy Home | | Order WLAN Delete |
| | > 🔘 06_Hospitality_Marc | | 1 A V passpoint2. Orion cambium |
| | > 🔘 07_Scott_home | | Add WLAN Create WLAN |
| | > 🦁 08_Corp_Wifi Lab | | |
| | > 🕲 09_Tenant_test | | Save |



Select the AP group configuration to the respective AP by navigating -> Manage -> Specific device -> Configuration and in AP group drop down, select the newly created AP Group.

| | | | | MSP View Al Accounts + | Azif Abdulsalam + |
|-------------------------------------|---|--|----------------------------|---|-------------------|
| * | Search | ■ Wi-Fi > XV2-2-512042 | | | Ø |
| n Home | Networks Wi-Fi AP Groups | Dashboard Notifications Configuration Details Performance So | ftware Update Tools Client | ts Mesh Peers WLANs | |
| I∩ T mute Manage in inventory | ♥ System ♥ Base Infrastructure ♥ 01_Cal Customer ♥ 02_Education_Texaa_Dist ♥ 03_DUVin_Wi-Fi ♥ 04_Retail_Dist ♥ 04_Retail_Dist ♥ 05_Christy Home ♥ 07_Scott_home ♥ 07_Scott_home ♥ 08_Corp_Wifi Lab ♥ 09_Tenant_test ↓ 4etault ↓ Network01 ↓ Site01 @ AP10-Kitche @ AP10-Kitche @ Moom-10 | Device Details Managed Account De_Tenant_test Change Name W10-2-51042 Network Networks Site Site Site Site Catitude Site Site Site Site Site Site Site Sit | • • • • | Serial Number WBMF04Q51SC21 MACAddress BC:65:7C5:12:042 IP Address I72:20:12:242 Sync Status In Sync | |
| | | Advanced Settings Radio and Location cnMaestro VLAN (VLAN 12) Other VLAN Councids Eicht Neuer | s WLANS | | |

Validating with a wireless client by connecting to Orion WLAN

Follow the below link to download the profile to AP

https://docs.google.com/document/d/e/2PACX-1vQhbx-MIqc_7Tmsp5SrJ435JlDhEbz7y0x8gtCiZAcErg-kTlCqbhWuTLf6SeiFTf52DMreoXa7im-W/pub#h.n2jmq2da97p

After installing the profile, the wireless device should be connecting to the Orion Wireless LAN

| WI-FI>A | P08-theater02 | | | | | _ | | | | | | | | | | |
|----------------|-------------------------|-----------------|------------------|----------------|------------|------------|----------------|-------|-----------|--------|---------|-----------|------------|----------------|--------------|-------|
| ashboard No | vifications Configurati | on Details Perf | ormance Software | Update Tools | Clients | Mesh Peers | WLANs | | | | | | | | | |
| reless clients | wired carents Uncon | recteu cuents | | | | | | | | | | | | | | |
|), Search | | | Managed Account: | 01_Cal Custome | er | | | | | | | Disco | nnect | Disconnect All | Export - | |
| Host Na | τ User τ | AP T | IP Address T | MAC | τ | VLAN-ID T | Manufacturer T | 05 T | SSID T | Band T | Radio T | RSSI | SNR | Client Type | T Port | tal M |
| iPhone | 87d63385-b82f-4 | AP08-theater02 | 172.20.10.52 | 52:67:8 | 1:82:B2:98 | 12 | [Local MAC] | Other | OrionWiFi | 5GHz | ac | -53 dBm | 42 dB | Client | | |
| | | | | | | | | | | | | Showing 1 | 1 Total: 1 | 10 ¥ | Deinsieure 🖉 | |



| Information Roaming Histor | У | × |
|----------------------------|---------------------------------|---|
| Managed Account: | 01_Cal Customer | |
| IP: | 172.20.10.52 | |
| IPv6: | | |
| Band: | 5GHz | |
| MAC: | 52:67:81:82:B2:98 | |
| Name: | iPhone | |
| User: | 87d63385-b82f-4b21-8fcc-53943d0 | |
| Mode: | ac | |
| Manufacturer: | [Local MAC] | |
| Туре: | - | |
| OS: | Other | |
| SSID: | OrionWiFi | |
| RSSI: | -53 dBm | |
| AP MAC: | 00:04:56:9B:3D:70 | |
| Connected AP: | AP08-theater02 | |
| Capabilities: | - | |
| Rate: | 104 Mbps | |
| Upload: | 100.3 KB | |
| Download: | 201.9 KB | |
| SNR: | 42 dB | |
| VLAN: | 12 | |
| Guest Access Type: | - | |
| Auth Status: | false | |
| Session Expiry: | 0d 0h 0m | |
| Mode: | | |
| Client Type: | Client | |
| Total Quota: | - | |
| Total Quota Balance: | 0 | |
| Upload Quota: | 0 | |
| Download Quota: | 0 | |
| Upload Quota Balance: | 0 | |

Login to your Orion account and confirm "Manage Network" should show the APs

| | | Orion | | |
|----------------|---------------------|--------------------|----------------|---------------------------------|
| ambium | | | | customer btcm0ko2bl4m3l2nn56 |
| SUMMARY | MANAGE NETWORKS (2) | PRICING & PAYMENTS | ORION SETTINGS | HELP & SUPPORT |
| AP08-theater02 | | | | |



CLI configuration of Orion Wi-Fi

For reference, please find the CLI configuration for Orion Wi-Fi, radius server is pointing to the Ubuntu VM

```
wireless wlan 1
ssid OrionWiFi
no shutdown
vlan 12
security wpa2-enterprise
no protected-mgmt-frames
passphrase $crypt$1$MATOIvimGr0WhHYcqQYU/MyOQchlnP/W
band both
dtim-interval 1
max-associated-client 127
proxy-arp
network-policy-id 0
mac-authentication policy deny
radius-server authentication host 1 172.20.10.59
radius-server authentication secret 1 $crypt$1$U2qc7eq8oDcCY18kN/5PhZRKNR637dGz
radius-server called-sta-id AP-MAC:SSID
radius-server rad-attr service-type 1
radius-server accounting host 1 172.20.10.59
radius-server accounting secret 1 $crypt$1$YM1Ff7J/7rmXJiGn1XSCqsxeIs7QxRTf
radius-server accounting interim-update-interval 1800
radius-server accounting mode start-interim-stop
radius-server accounting acct-on
passpoint
passpoint interworking internet
passpoint interworking access-network-type chargeable-public
passpoint interworking venue-group 6
passpoint interworking venue-type 4
passpoint roam-cons F4F5E8F5F4
passpoint angp nai-realm 1 name Orion-Realm
passpoint angp nai-realm 1 eap 1 method eap-tls
passpoint angp nai-realm 1 eap 1 auth 1 inner-auth-eap certificate
passpoint angp domain-names orionwifi.com
no guest-access
T.
```