



HPE Aruba Networking New Central - CloudAuth & MPSK

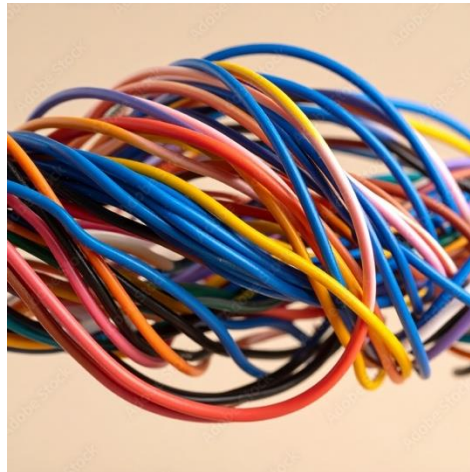
Tom Cierlitsky – Systems Engineer

October 2025

Why MPSK



Takes time and
training



Difficult workflows for
users



No one wants to
contact the helpdesk

From Mac-Auth – Device Registration

New device being created by **alice@aruba.io**.

Student Device Registration

* MAC Address:		Where do I find this?
* Device Name:	 Give this device a nickname (example: "timc-xbox")	
Wi-Fi Password:	☒ Use a unique Wi-Fi password for this device	
Device Sharing:	☐ Enable Device Sharing Share your device with roommates and friends!	
* Device Type:	Game Console v	
Notes:		
* Terms of Use:	☐ I am responsible for this device and accept the terms of use	

 Register

* required field

 [Back to devices](#)  [Manage devices](#)



What is a MAC address?



To Self Service MPSK

Wi-Fi Password

The **Yoda-X3-MPSK** Wi-Fi network is provided by **Tom Cierlitsky - Aruba**.

Use this password to connect to the **Yoda-X3-MPSK** Wi-Fi network:



vu5b2hcv

Copy

• To connect your device to the Yoda-X3-MPSK Wi-Fi network, scan the QR code, or enter the password when prompted.

• This Wi-Fi password uniquely identifies **you** on this network. **Do not share it** with anyone else.

If your Wi-Fi password has been compromised, you should generate a new replacement password.

Once regenerated, all of your devices that used the old password will need to be updated to use the new password.

• This action cannot be undone.

Regenerate Wi-Fi Password

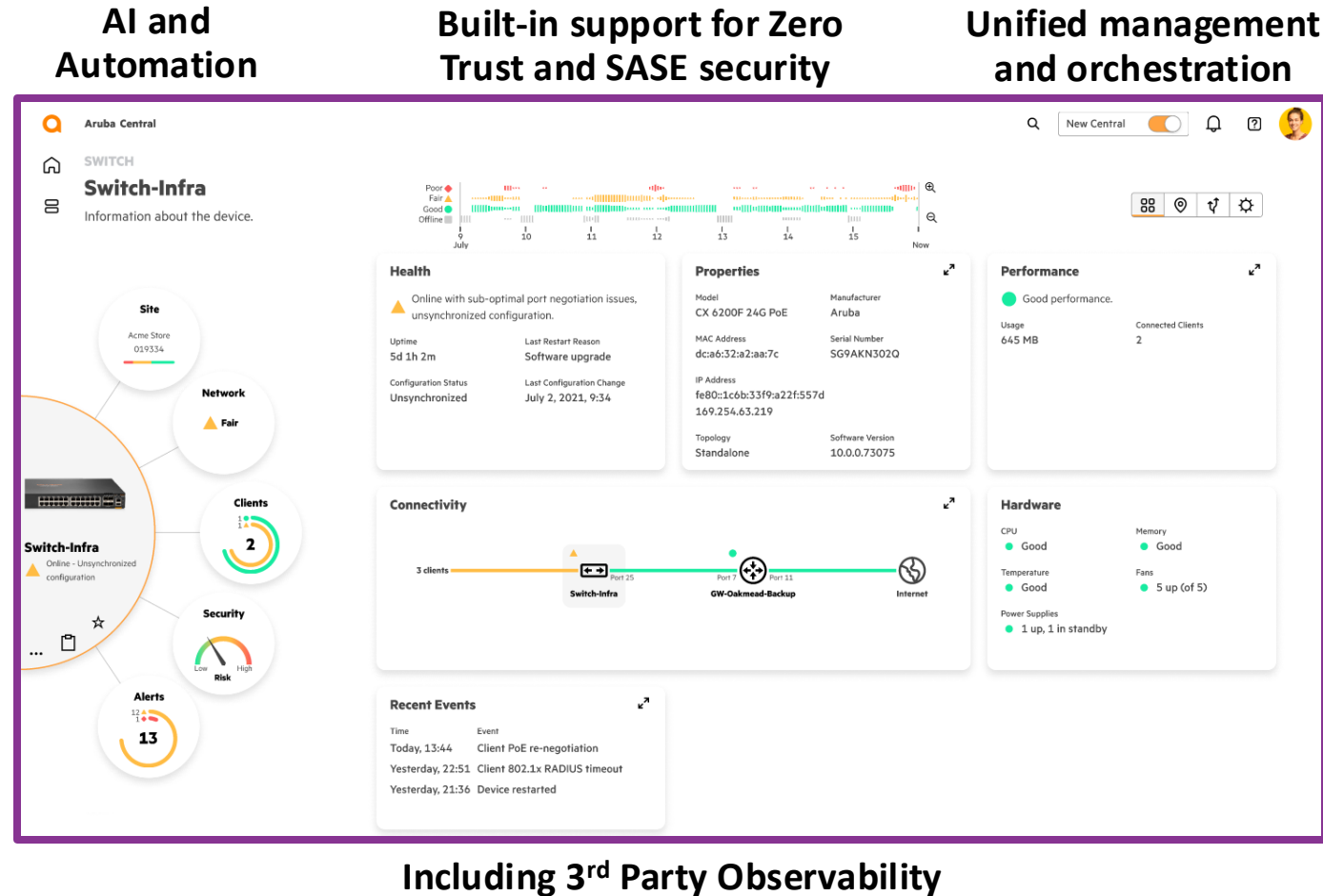
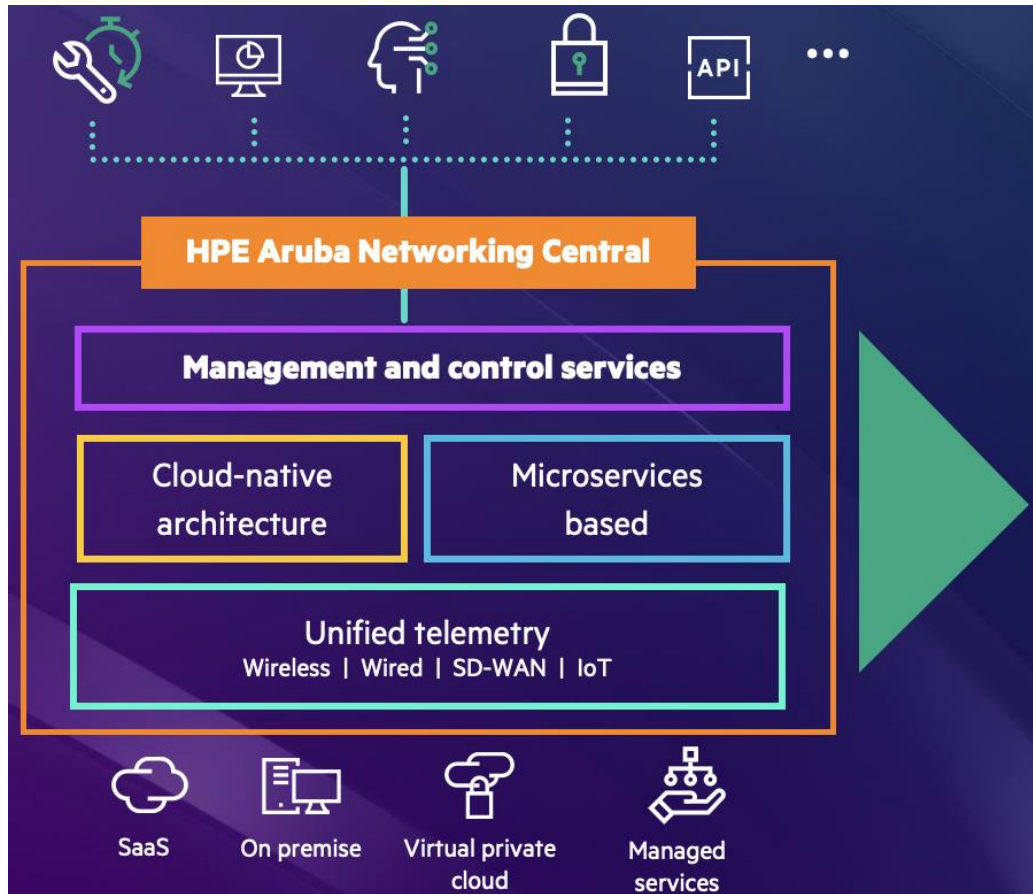
- Randomized MAC addresses
- Headless Devices
- Everyone knows how to deal with a PSK
- No need for a complicated authentication method (EAP-TLS)
- Solves the EAP-PEAP issue(s)



Reduce Onboard Friction With Aruba Central

HPE Aruba Networking Central – managing the Full Stack with AI and Security

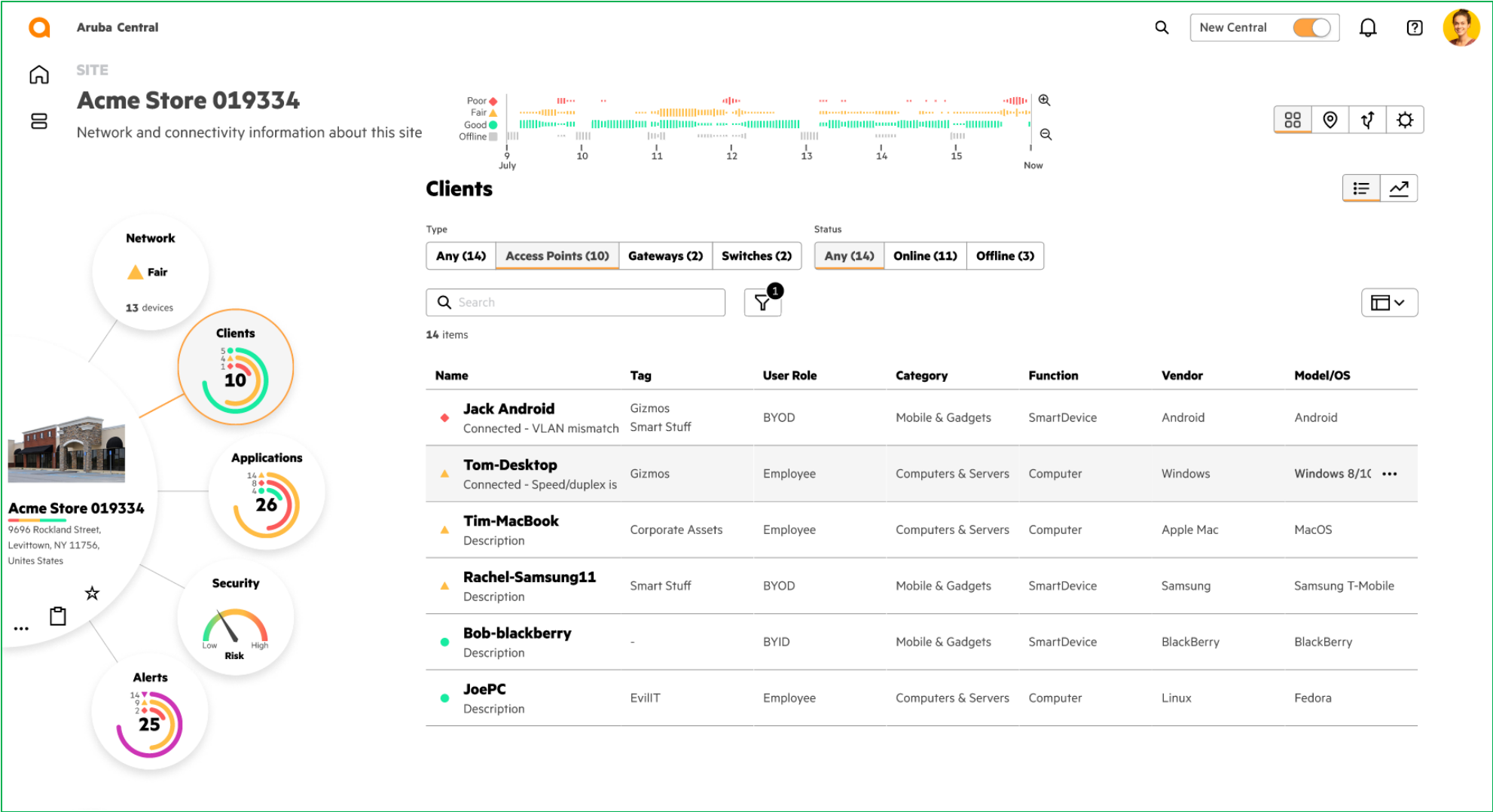
Cloud-native, AI-powered, Self Driving network management and orchestration



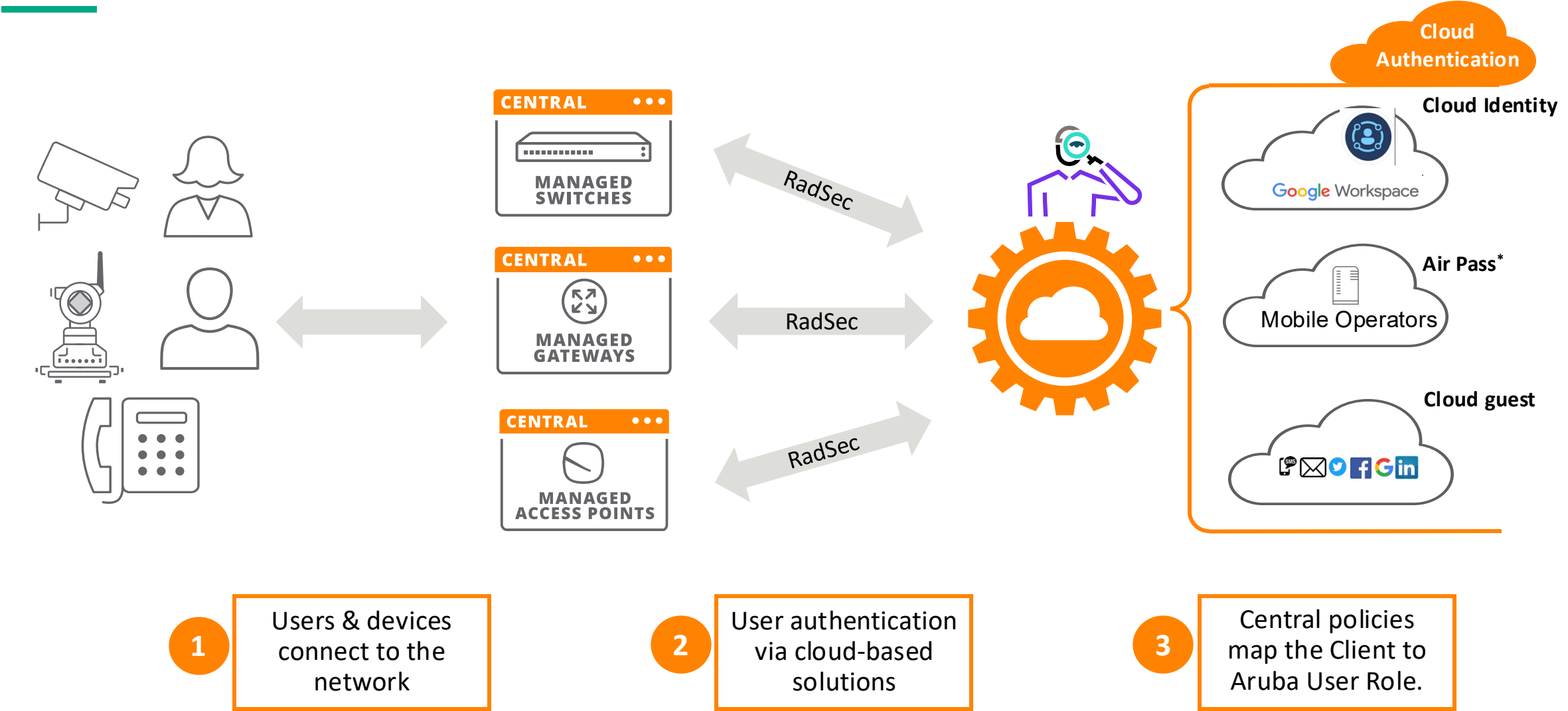
Including 3rd Party Observability

Cloud-native is a set of principles and practices,
not just a deployment model

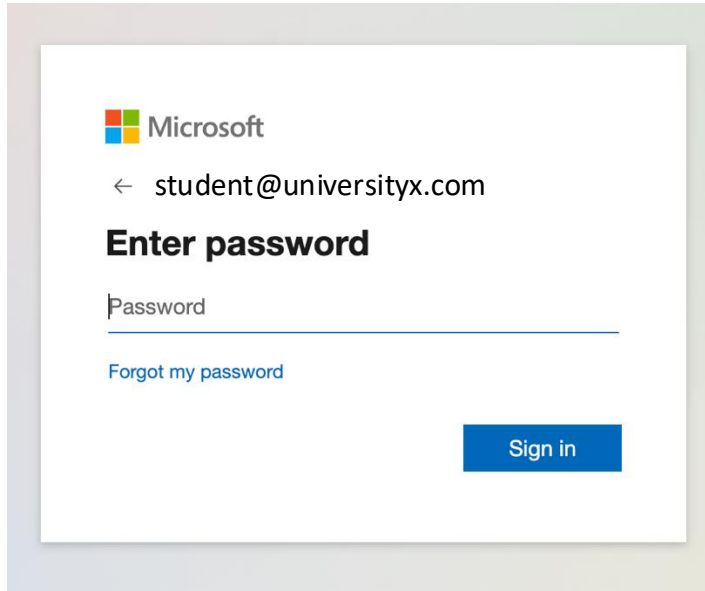
Aruba Central



Cloud Authentication Overview



Connecting Your Device with AOS 10.5



Microsoft

← student@universityx.com

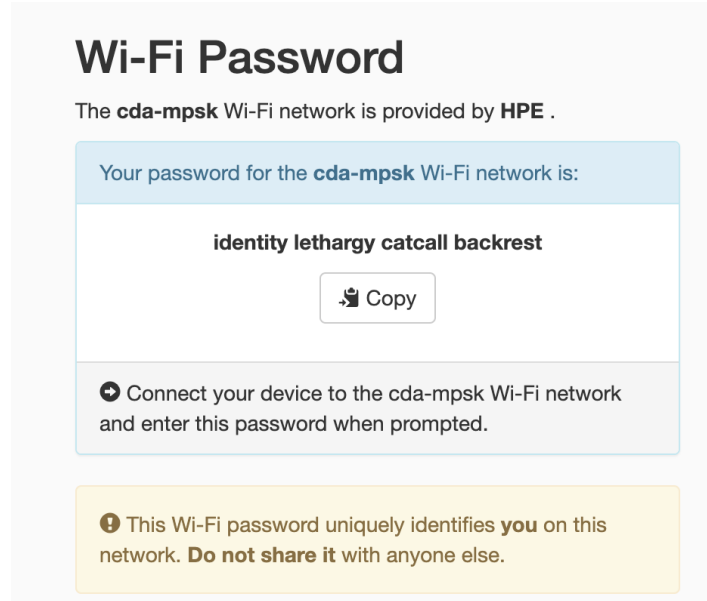
Enter password

Password

[Forgot my password](#)

Sign in

End user connects & logs in



Wi-Fi Password

The **cda-mpsk** Wi-Fi network is provided by **HPE**.

Your password for the **cda-mpsk** Wi-Fi network is:

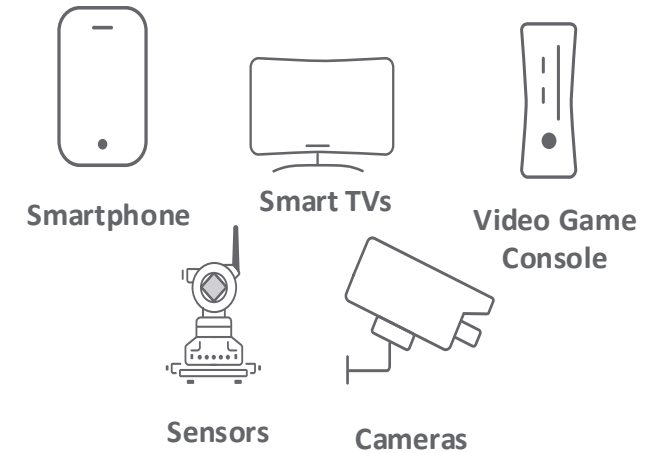
identity lethargy catcall backrest

[Copy](#)

➕ Connect your device to the cda-mpsk Wi-Fi network and enter this password when prompted.

ⓘ This Wi-Fi password uniquely identifies **you** on this network. **Do not share it** with anyone else.

Copies pre-shared key (PSK)



Uses PSK on multiple devices



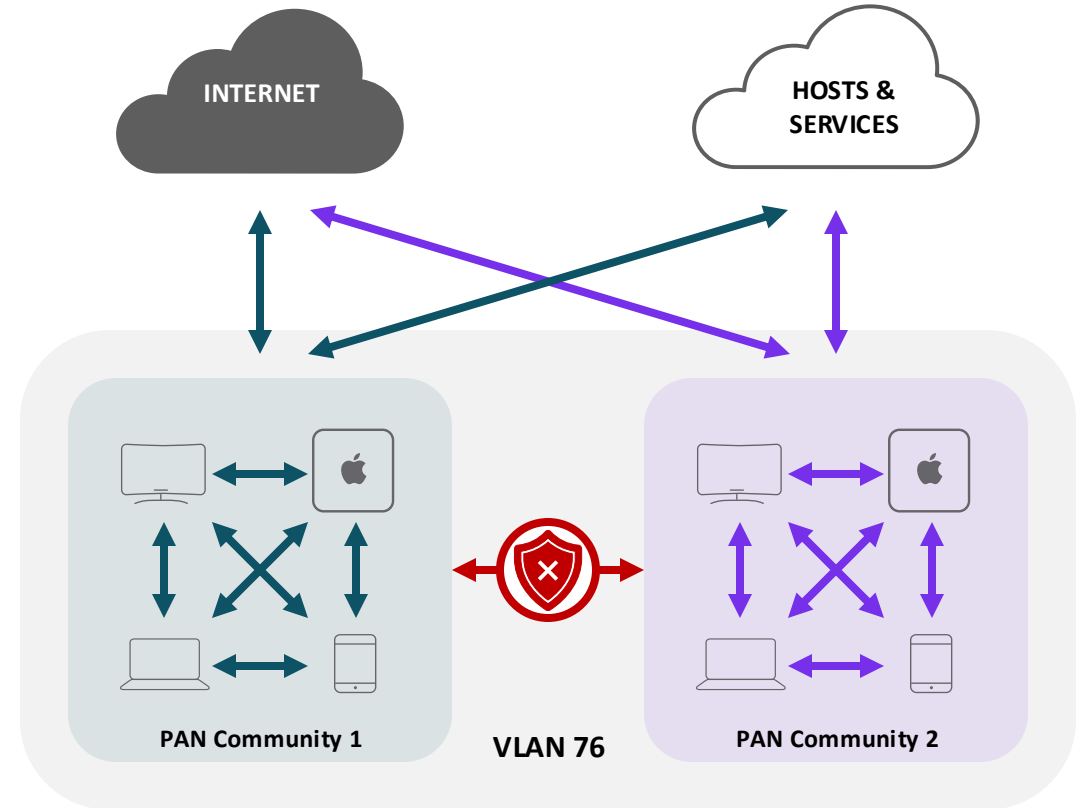
Personal Wireless Network Support

What is a PWN?

- Isolated communities of wireless devices that belong to an individual user or function
- Operate as virtual logical segments within a VLAN or LAN
- Provide a personal network for users within the larger network

Devices within each PWN:

- Can communicate with admin defined external resources (Internet, Servers, Services, etc.)
- Can communicate with other hosts within the PWN
- Cannot communicate with hosts in other PWNs





DEMO

Aruba Central

CloudAuth – Connect Azure (EntraID)

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+

Add a permission

✓

Grant admin consent for Default Directory

API / Permissions name	Type	Description	Admin consent requ...	Status	
Microsoft Graph (4)					...
Directory.Read.All	Application	Read directory data	Yes	✓ Granted for Default Dire...	...
Group.Read.All	Application	Read all groups	Yes	✓ Granted for Default Dire...	...
User.Read	Delegated	Sign in and read user profile	No	✓ Granted for Default Dire...	...
User.Read.All	Application	Read all users' full profiles	Yes	✓ Granted for Default Dire...	...



CloudAuth – Connect Azure (EntraID)

Aruba Central - Internal

Search

DeleteEndpointsPreview features

OverviewQuickstartIntegration assistantManageBranding & propertiesAuthenticationCertificates & secretsToken configuration

Essentials

Display name: Aruba Central - Internal

Application (client) ID: 94b5e83f-30e7-4e92-bb41-97c3d0bbd057

Object ID: 4e7475cb-7b80-4985-9e52-ad0e2688cf9e

Directory (tenant) ID: 2e944a8f-5937-4135-b548-6212f5bedcf7

Supported account types: My organization only

Client credentials: 0 certificate_1

Redirect URIs: 1 web, 0 spa_0

Application ID URI: Add an Applic...

Managed application in I...: Aruba Central

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure Active Directory Graph. We will continue to provide technical support for these libraries. Your application will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

User Authentication

Use an organization identity store to authenticate clients and control their access to the network.

Where is the user information stored?

Identity Provider

Microsoft Entra ID

Tenant ID

2e944a8f-5937-4135-b548-6212f5bedcf7

Client Secret

COPY REDIRECT URI

Quick start guide for Microsoft Entra ID

Client ID

94b5e83f-30e7-4e92-bb41-97c3d0bbd057

CONNECT

Microsoft Entra ID is connected

Create Identity Store

Name *OneCon

Description

Provider *Microsoft Entra ID

Tenant ID *2e944a8f-5937-4135-b548-6212f5bedcf7

Client ID *94b5e83f-30e7-4e92-bb41-97c3d0bbd057

Client Secret *This is a required field.

Redirect URI

Use this URI to register Central NAC in the identity store provider.

https://naw1.cloudguest.central.arubanetworks.co...

CloudAuth – Connect Azure (EntraID)

Aruba Central - Internal | Certificates & secrets

Search

Got feedback?

- Overview
- Quickstart
- Integration assistant
- Manage
 - Branding & properties
 - Authentication
 - Certificates & secrets
 - Token configuration
 - API permissions
 - Expose an API
 - App roles
 - Owners
 - Roles and administrators

Got a second to give us some feedback? →

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (2) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

Description	Expires	Value	Secret ID
Aruba-test	11/18/2024	g138Q~fzTdSRKp_n6GcyW8RzqM2~h5...	3a5fb990-c29f-41ab-a3f1-1e782fa3cda9

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Client Secret

COPY REDIRECT URI

CONNECT

Create Identity Store



Name *

OneCon

Description

Provider *

Microsoft Entra ID

Tenant ID *

Client ID *

Client Secret *

This is a required field.

Redirect URI

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https://
naw1.cloudguest.central.arubanetworks.co...



The background is an abstract composition of numerous thin, wavy, blue and white lines that create a sense of motion and depth. A bright, circular light source is visible on the right side, casting a soft glow across the scene. The overall color palette is dominated by cool blues and whites, with a hint of yellow from the light source.

Thank you!