

atmosphere^{'22}
MEETUP

GENERAL SESSION
**SOLVING NETWORK MODERNIZATION
CHALLENGES**



THE WORLD **CHANGED**



HYBRID WORK



DIGITAL
TRANSFORMATION



PERSONALIZED
EXPERIENCES



NEED FOR
EFFICIENCIES



THE NEED FOR NETWORK MODERNIZATION



Hybrid Work



Digital Transformation
Acceleration



Personalized
Experiences



Need for
Efficiencies

AUTOMATION

SUPPLEMENT HUMANS

SECURITY

ZERO TRUST & SASE PRINCIPLES

AGILITY

ADAPT TO CHANGE



ARUBA ESP

ORCHESTRATING NETWORK SERVICES FROM EDGE TO CLOUD



AUTOMATE



AI AND AUTOMATION

PROTECT



EDGE-TO-CLOUD SECURITY

CONNECT



UNIFIED INFRASTRUCTURE

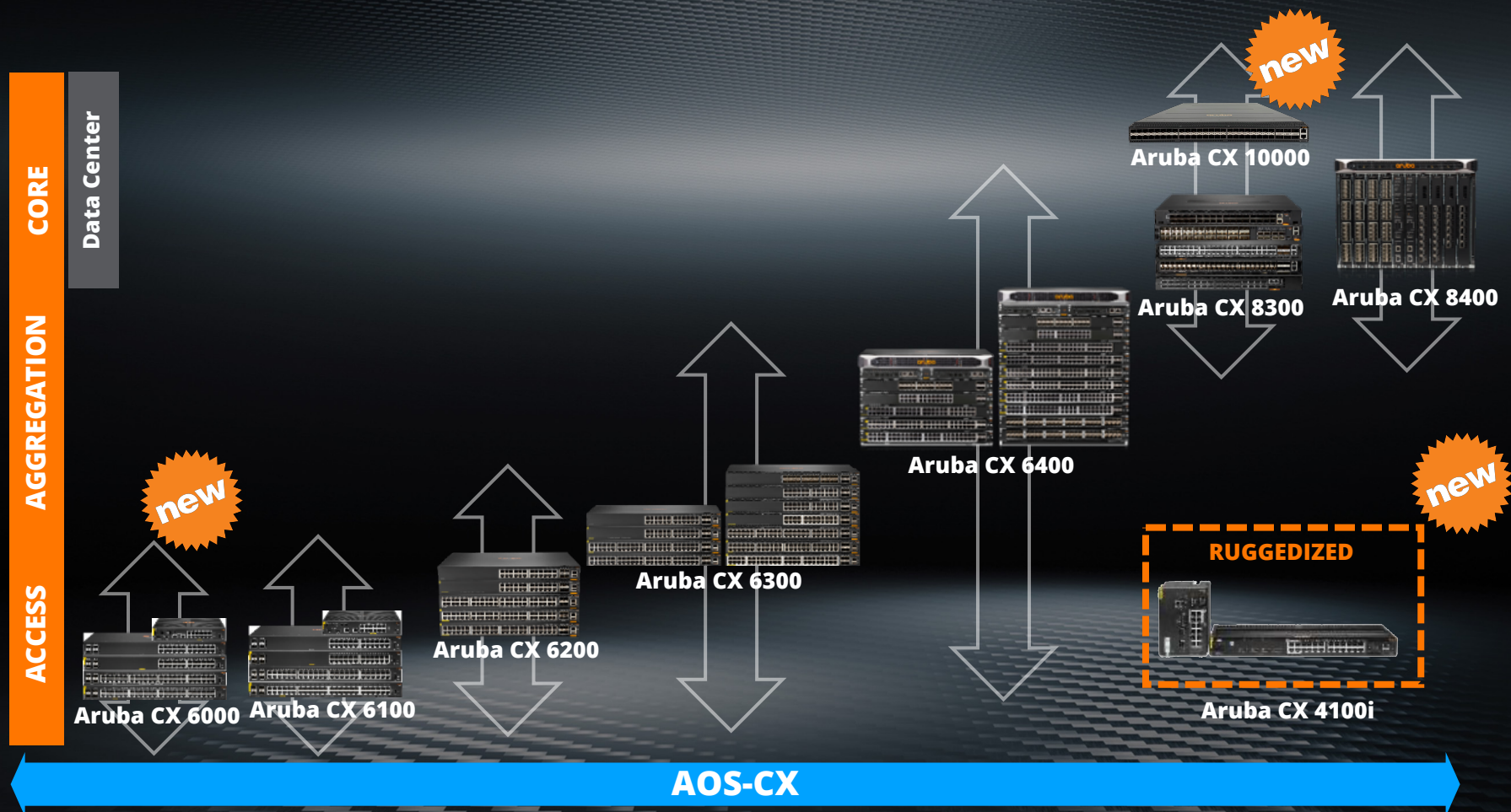
ADAPT: NETWORK AS A SERVICE



UNIFIED INFRASTRUCTURE

ARUBA CX SWITCHING PORTFOLIO

SINGLE OS FROM SMB TO CAMPUS TO CORE



A NEW SWITCHING CATEGORY: DISTRIBUTED SERVICES SWITCH

ARUBA CX 10000

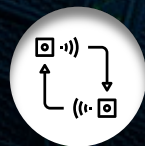
L4-L7 Stateful Software Services



FIREWALL



DDoS



TELEMETRY ENCRYPTION*



NAT*



SLB*

Industry first smartswitch
for the enterprise

Embedded Pensando DPU's and
extensible services built into the fabric
Aruba AOS-CX and Orchestration (AFC)

**10X PERFORMANCE,
100X SCALE AT 1/3 TCO**



*Roadmap for
software enablement

AP AS A PLATFORM

NO NEED TO ADD OVERLAY INFRASTRUCTURE TO SUPPORT MULTIPLE CONNECTIVITY REQUIREMENTS

Wi-Fi 6/6E Radios

- 802.11ax network access
- Asset tracking tags
- Personnel location badges
- Smart wrist bands with telemetry sensors
- Worker safety smart helmets
- Sensors, actuators, and smart lighting systems
- Bar code scanners and mobile printers

Bluetooth 5 Radio

- Wayfinding and geofencing
- Energy harvesting heating, air quality, presence, security, panic call button, lighting, leak sensors
- Load controls and actuators
- Door locking and access systems
- High accuracy industrial and personnel location tags



802.15.4/ZigBee Radio

- Food safety sensors
- Cooking and refrigeration sensors
- Heating, air quality, presence, security, panic, call, button, lighting, leak sensors
- Load controls and actuators
- Door locking and access systems

USB Port

- Cellular interfaces
- Electronic shelf labels
- Gun shot detectors
- Retrofit ZigBee interface for existing deployments
- Custom interfaces



WI-FI 6E AND WI-FI 6 PORTFOLIO OPEN LOCATE-READY ACCESS POINTS

PREPARE FOR DIGITAL ACCELERATION WITH ARUBA WI-FI 6E & WI-FI 6

GPS RECEIVER



new



650 Series



630 Series



550 Series



530 Series



510 Series



500 Series



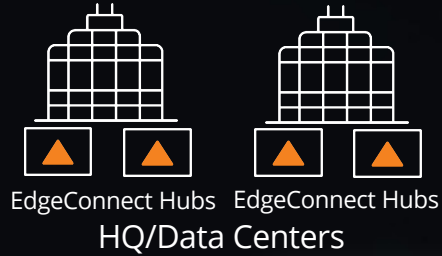
500H Series

FINE TIME MEASUREMENT

UPGRADE TODAY TO TAKE ADVANTAGE OF ADVANCED LOCATION CAPABILITIES



SINGLE ARUBA SD-WAN FABRIC CONNECTIVITY FOR LOCATIONS OF ALL SIZES



ARUBA EDGECONNECT SD-WAN FABRIC



UNIFY USERS AND THINGS

WiFi, BLE, ZIGBEE, 802.15.4

CONTROL

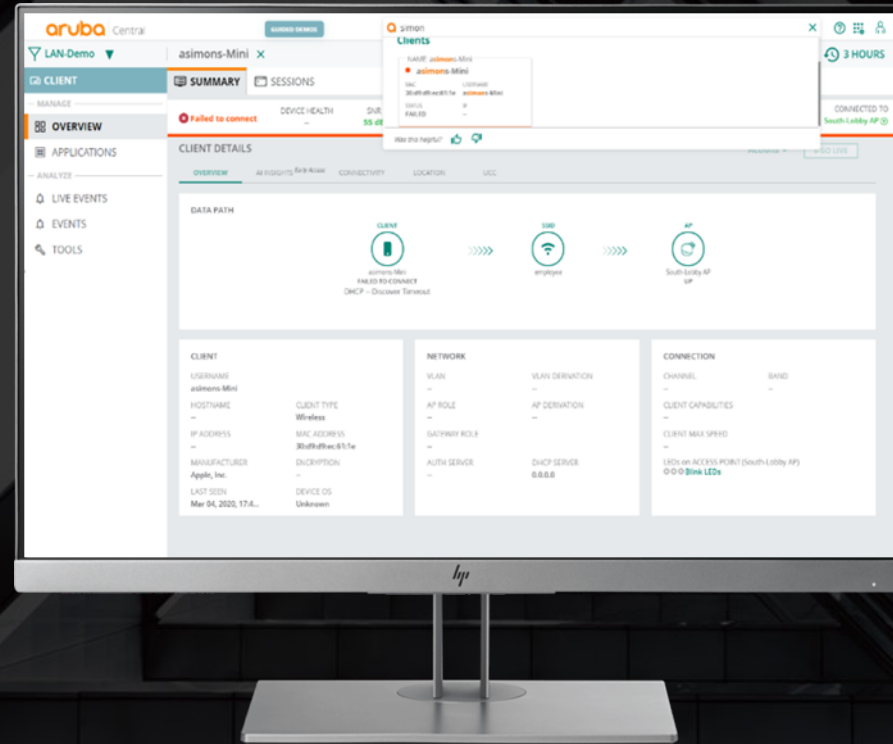
UNIFIED SWITCHING

AOS-CX

CONTROL

Cloud Managed
Close to Core to DC
NonStop PoE and Live Updates

ARUBA CENTRAL



Simplify network deployment and orchestration
Unify network management and services

UNIFIED WI-FI

Single Architecture

CONTROL

Campus Wi-Fi AND Branch Wi-Fi

UNIFIED BRANCH

EdgeConnect Fabric

CONTROL

EdgeConnect /
Remote worker

EdgeConnect /
Remote worker



CUSTOMER INNOVATION WITH ARUBA



Supporting tens of
thousands of daily devices
over 6.5M sq ft for classified
and unclassified networks





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Enterprise company

EDGE-TO-CLOUD SECURITY

EDGE-TO-CLOUD **SECURITY**

Zero Trust and SASE Frameworks

Client Insights

Central NetConductor

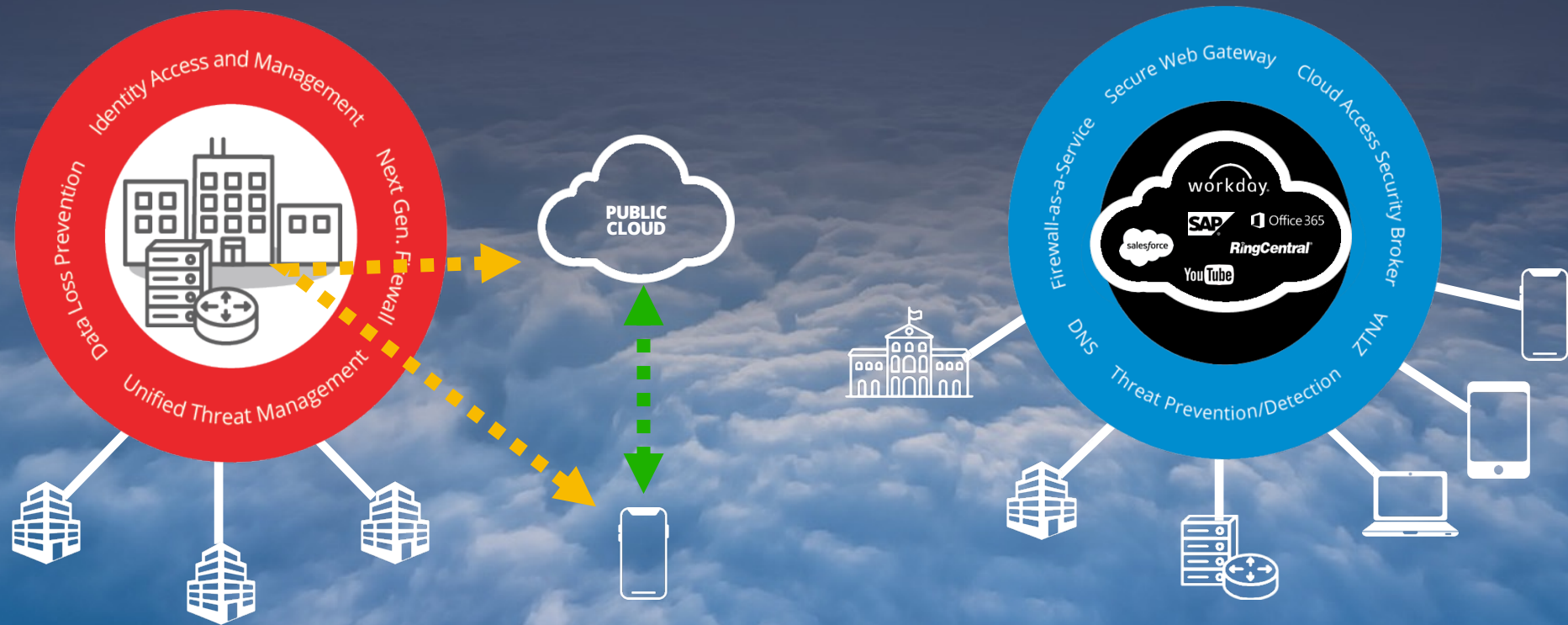
ClearPass Policy Manager

Cloud Auth

Dynamic Segmentation



CLOUD COMPELS SECURITY TRANSFORMATION



**THE ENTERPRISE SECURITY PERIMETER
IS DISSOLVING**

**AS APPS MOVE TO THE
CLOUD, SECURITY FOLLOWS**



SECURE ACCESS SERVICE EDGE = SD-WAN + SSE

THE IDEAL COMPLEMENT FOR DELIVERING A SASE ARCHITECTURE

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ADVANCED SD-WAN

SD-WAN
Routing
Next-Gen FW
Advanced Segmentation
IDS/IPS
DDoS
WAN Optimization
ICSA SD-WAN Cert



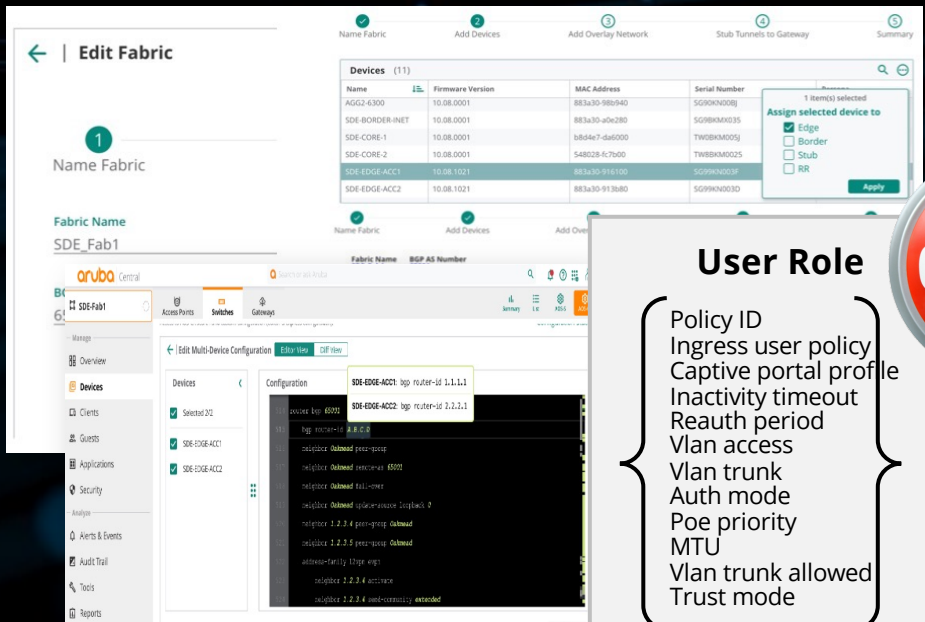
SSE: CLOUD- DELIVERED SECURITY

Secure Web
Gateway
FWaaS
IDS/IPS
Zero-Trust Ntwk
Access
Data Loss
Prevention
Cloud Access
Security Broker
DDoS



CENTRAL NETCONDUCTOR

AUTOMATES OVERLAY DESIGN AND SECURITY POLICY DEFINITION



- New Central integrated service
 - Unified network overlay configuration, traffic and security policies
 - Intent-based workflows for ease of operation
- Automated configuration and policy propagation
 - Global scale
- Based on widely adopted protocols for ease of migration and interoperability





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AI AND AUTOMATION

INDUSTRY CHALLENGES

IT ORGANIZATIONS ARE **LOSING THE BATTLE**

LACK OF
INSIGHTS

57%

of IT's time
looking at
performance
and user
issues¹

DISPARATE
MANAGEMENT

4+

Tools used by 64%
of IT orgs for
network
management¹

IOT
VULNERABILITIES

80%

of IT orgs find
IoT clients
they did not
install or
secure²

SCARCE IT ADMIN
RESOURCES

64%

of IT execs cite
talent shortages as
significant barrier
to adoption of
emerging tech,
versus
4% in 2020³

1. EMA, April 2020
2. Gartner, Feb. 2021
3. 2021-2023 Emerging Technology Roadmap for Large Enterprises, Gartner Inc.



ARUBA CENTRAL AIOPS

THE ONLY **COMPLETE** AI/ML SOLUTION



ARUBA CENTRAL CLOUD

AI SEARCH

Natural language queries for fast onboarding and troubleshooting

NETWORK INSIGHTS

Proactive network anomaly detection and optimization

AI ASSIST

Automated Aruba TAC trouble ticket generation

CLIENT INSIGHTS

Accurate IoT profiling to drive capacity planning and security policies

INCIDENT DETECTION

Automated client level performance monitoring

Wi-Fi, Wired, WAN Infrastructure:
Planning, Setup, Troubleshooting, and Optimization

Security:
Profiles / Behavior

User:
Application / Connectivity



COMMON CHALLENGES **SOLVED**

REAL IT PROBLEMS, REAL RESULTS

POOR WI-FI BEHAVIOR

COVERAGE HOLES

FIRMWARE UPGRADES

BAD PORTS AND CABLES



HIGHER ED

Aruba Wi-Fi and **SNR** specific Insights led to **95%** drop in help desk calls

POOR PERFORMING LINKS

POE ISSUES

HARDWARE ANOMALIES

IOT CONNECTIVITY

APP PERFORMANCE



AMUSEMENT

Over **50%** decrease in IT teams being dispatched to investigate guest Wi-Fi outages



THE ARUBA AIOPS **ADVANTAGE**

DATA = ABILITY TO INNOVATE AND DELIVER RESULTS

Only cloud AIOps with network, security and app-level AI/ML visibility

Only cloud AIOps solution with optimization recommendations

30+

Verticals/Industries
of all sizes

Most expansive list of full-stack insights – Wi-Fi, switches, WAN

120K+

Customer Configs

200M+

Endpoints/Clients

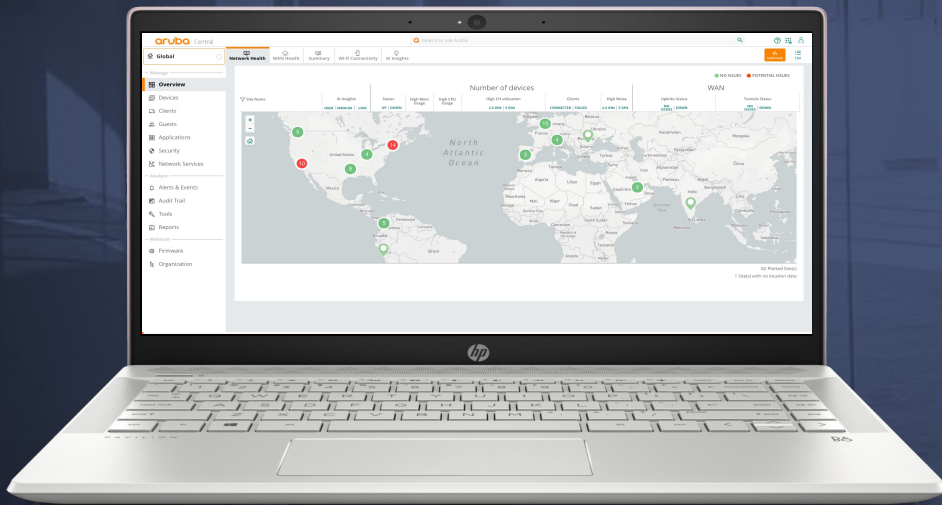
Unlimited delivery of trusted insights and automation – no extra cost

INDUSTRY'S LARGEST CONSOLIDATED DATA LAKE



ARUBA CENTRAL

STREAMLINING THE OPERATOR EXPERIENCE



Deployment Flexibility



Cloud



On-Prem



Managed Services

AI-Powered Analytics and Automation



Onboarding



Provisioning



Orchestration



Analytics



Contact Tracing

Built-in Security



Unified Threat Management



Authentication



Continuous Monitoring



Policy Enforcement



Visibility

Unified Infrastructure Management

APs



Switches



SD-Branch Gateways



VPN



DESIGNED FOR THE MODERN IT OPERATOR

RESILIENCY AND AGILITY FOR NEW BUSINESS DEMANDS



UNIFYING NETWORK ARCHITECTURES

ARUBAOS 10 + AOS-CX

OS extending across Campus and Branch;
One platform converging IT and IoT



SIMPLIFYING IT OPERATOR EXPERIENCE

LATEST IN ARUBA CENTRAL

Self-healing AIOps
IoT operations
Cloud authentication and policy



COMBINING WI-FI, WIRED AND SD-WAN CAPABILITIES @HOME

EDGECONNECT MICROBRANCH

Converge all services on single RemoteAP
New SD-WAN microsite capabilities



OR MODERN IT CONSUMER REINVENTING HOW EDGE NETWORKING CAN BE PURCHASED AND CONSUMED WITH **GREENLAKE FOR ARUBA**

HPE GreenLake for Aruba



Outcome Oriented:

Hybrid Work, Connected Stores, Hybrid Learning

"Pay as you go" Network-as-a-Service

(NaaS) via monthly subscription

Intelligent Operations Option:

Aruba NOC operates day 2 solution for customer



HPE GREENLAKE FOR ARUBA WITH INTELLIGENT OPERATIONS



2,300+

STORES NATIONWIDE

Use Case:

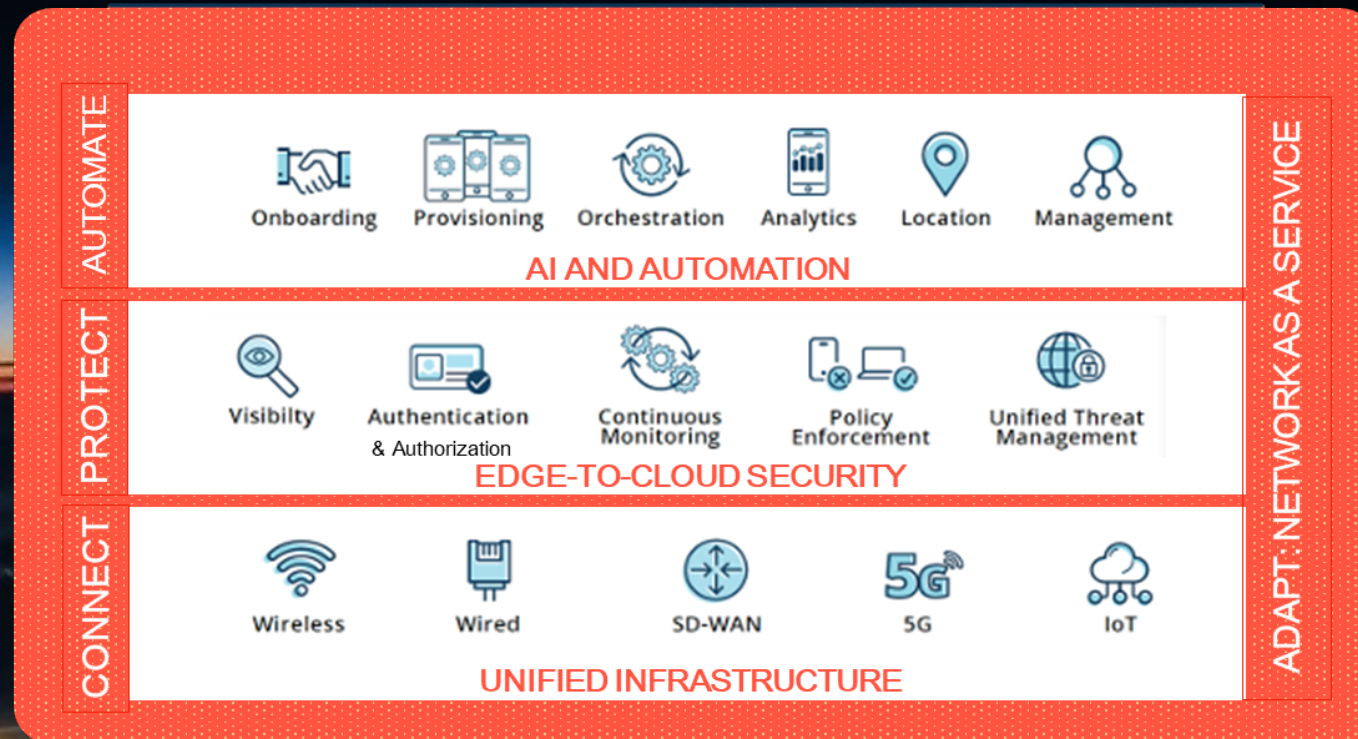
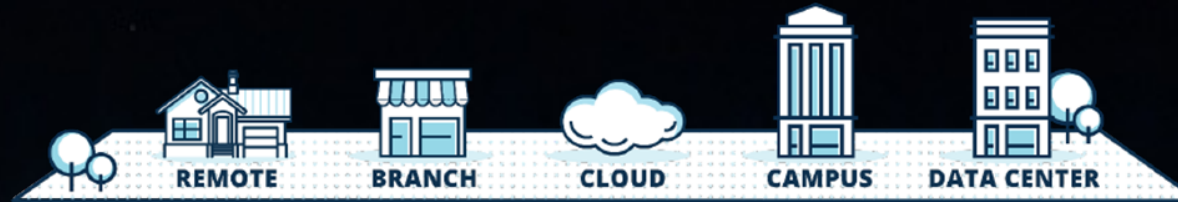
Guest access,
Connected POS,
Zebra handhelds
w/embedded UXI

Service Packs:

Wireless, Wired, UXI



ARUBA ESP SOLUTIONS FOR NETWORK MODERNIZATION



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MEETUP

THANK YOU

