

atmosphere'22

FINLAND

**SOLVING
NETWORK MODERNIZATION
CHALLENGES**

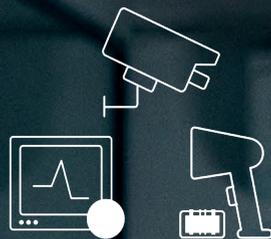
**Dobias van Ingen
Aruba EMEA CTO & Sr. SE Director**

June 2022

YOUR **PAIN** POINTS



Hybrid Work



Digital Transformation Acceleration



Personalized Experiences



Need for Efficiencies



THE FUTURE IS EDGE-TO-CLOUD

INTELLIGENT EDGE

HYBRID CLOUD



Users.
Devices.
Things.
Data.

Highly
Distributed

Fully
Automated

Cloud
Managed

SD-WAN

As-a-Service
Multi Cloud
Data Center
SaaS

WAN AND SECURITY TRANSFORMATION

ARUBA FRAMEWORK

INTELLIGENT EDGE

HYBRID CLOUD



CONNECT

PROTECT

ANALYZE

ACT

ARUBA ESP SOLUTIONS FOR NETWORK MODERNIZATION



ARUBA CENTRAL

ANALYZE AND ACT



PROTECT



CONNECT



AS-A-SERVICE

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Enterprise company

UNIFIED INFRASTRUCTURE CONNECT



aruba



First Enterprise grade 6E to market

Great for high density

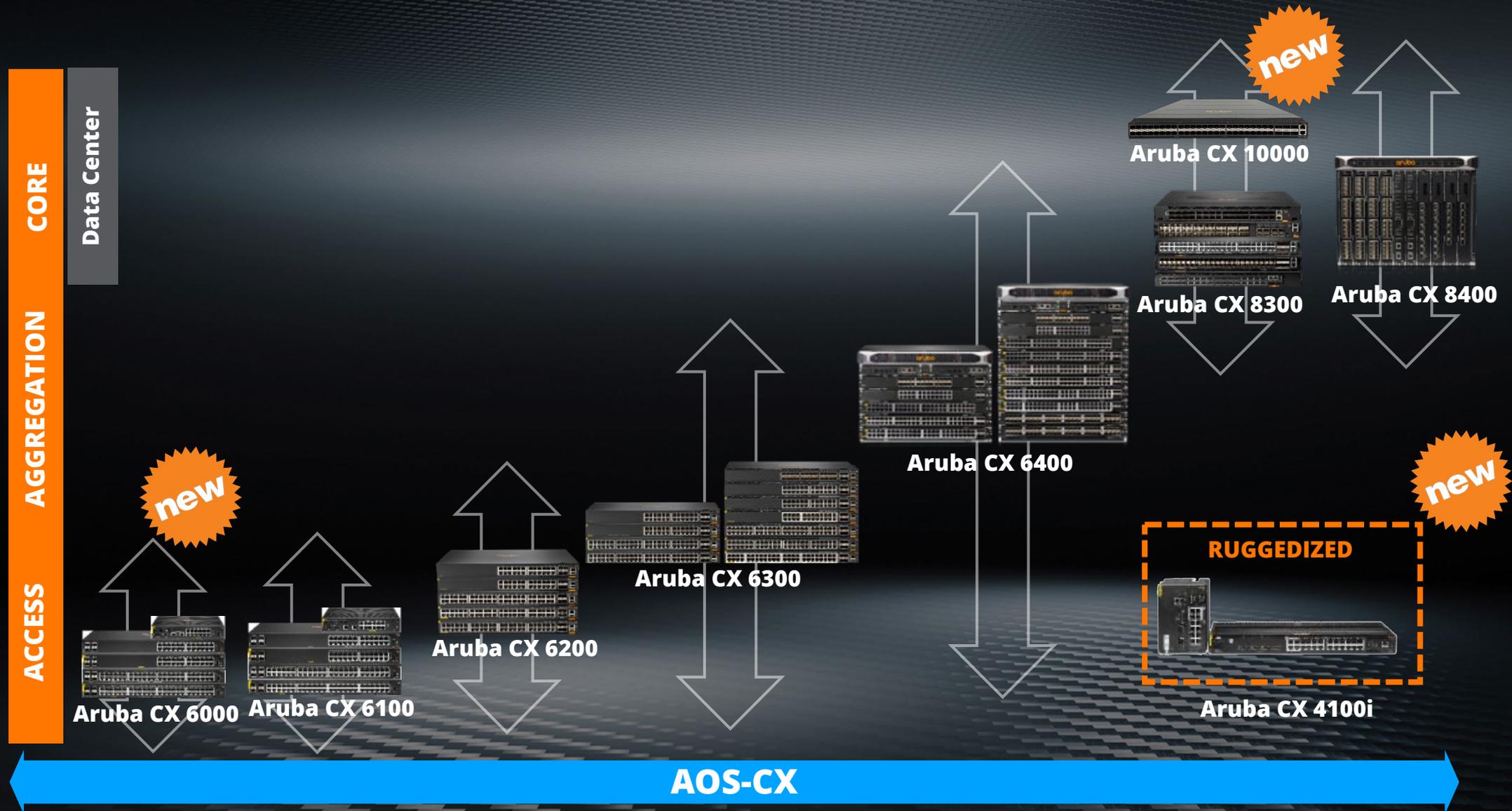
Building out full portfolio

Already looking to the future



ARUBA CX SWITCHING PORTFOLIO

SINGLE OS FROM SMB TO CAMPUS TO CORE



A NEW SWITCHING CATEGORY: DISTRIBUTED SERVICES SWITCH

ARUBA CX 10000

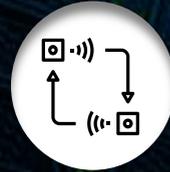
L4-L7 Stateful Software Services



FIREWALL



DDoS



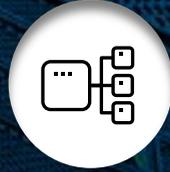
TELEMETRY



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)

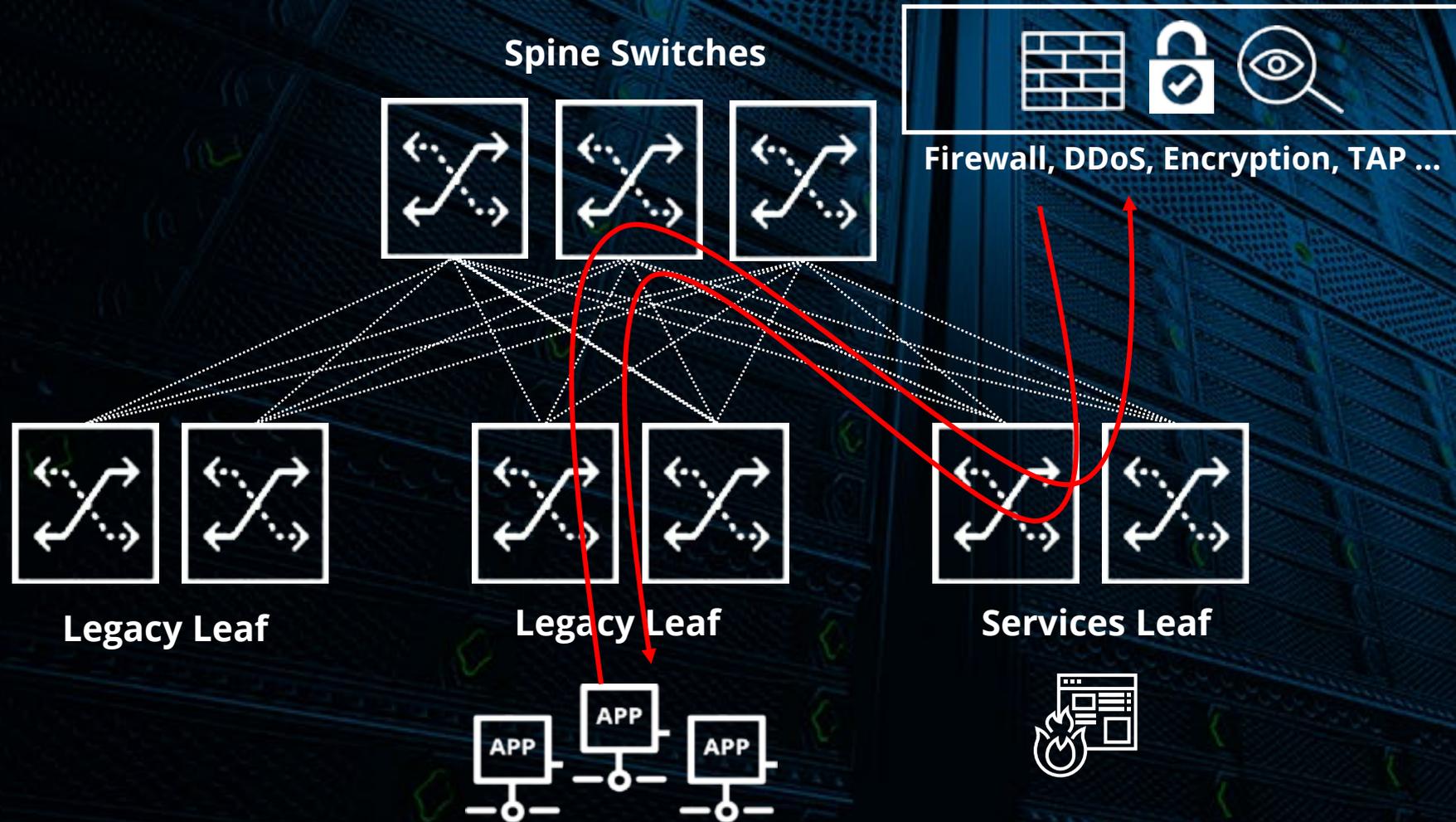
**10X PERFORMANCE,
100X SCALE AT 1/3 TCO**



*Roadmap for
software enablement

CHALLENGES WITH DC SERVICES TODAY

TROMBONING TO SERVICES APPLIANCE CLUSTERS



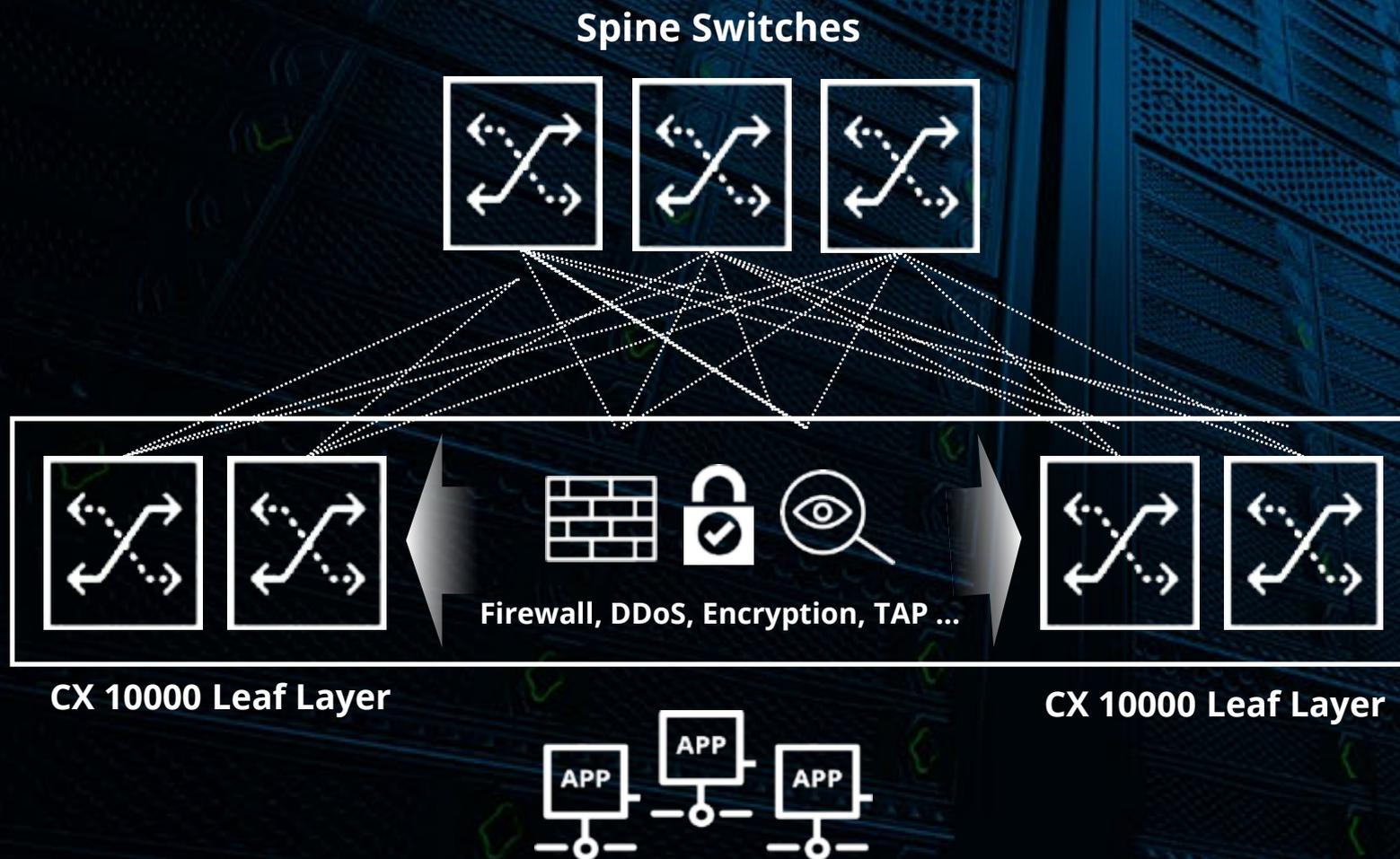
Appliances become bottlenecks for east-west traffic

Impacts application latency, performance, compliance

Increases complexity and cost (Appliance sprawl, licensing)

WHAT IF THERE WAS A **BETTER WAY?**

SERVICES DISTRIBUTED ACROSS ALL LEAFS



Services applied closer to applications at scale

Stateful zero-trust, firewalling, DDoS natively embedded for any workload

Reduces appliance sprawl and cost

Future proof architecture – additional functionality enabled on demand

Encryption, Stateful NAT, Load-balancing



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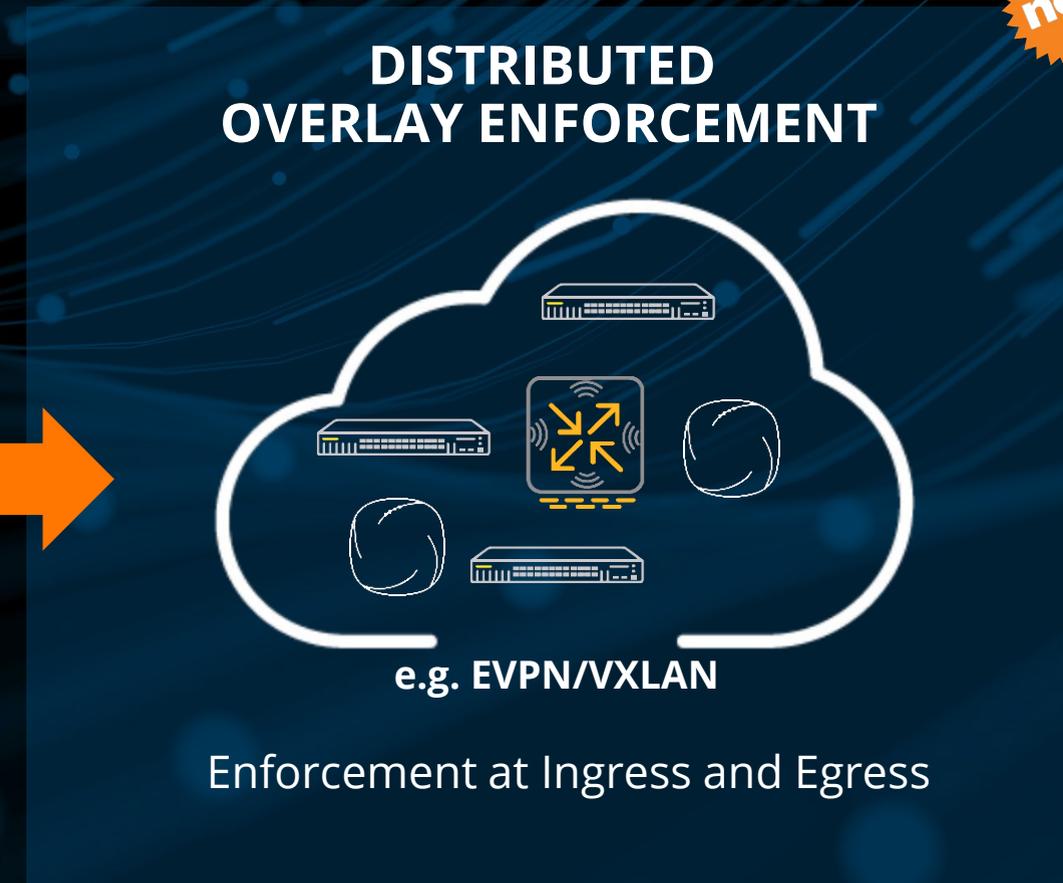
EDGE-TO-CLOUD SECURITY PROTECT



NETCONDUCTOR EVOLUTION OF DYNAMIC SEGMENTATION WITH CHOICE OF OVERLAYS



ClearPass Policy Enforcement Firewall



Aruba Central NetConductor

new



Effectively Addressing Risk

92%

**Critical risks
Addressed by
Segmentation**

67%

**Devices with risk
Reduced by
Segmentation**

Most Effective Action For Critical Risk

- E-W Segmentation 64.77%
- Update Firmware 18.02%
- Service Hardening 7.42%
- Change Credentials 6.70%
- N-S Segmentation 2.46%
- Incident Response 0.47%
- Configuration Change 0.16%





INTRODUCING ARUBA CENTRAL NETCONDUCTOR

Unified network overlay configuration,
traffic and security policies at scale

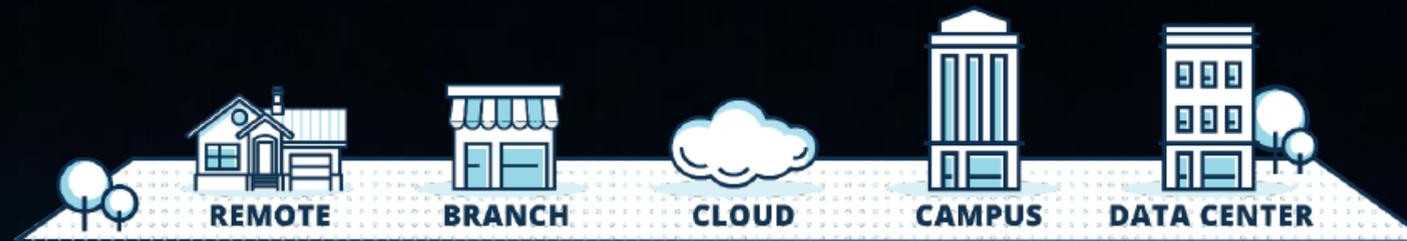
Intent-based workflows
for ease of operation

Automated configuration
and policy propagation

Uses widely adopted
protocols for interoperability
and ease of adoption



ARUBA CENTRAL NETCONDUCTOR COMPONENTS



ARUBA CENTRAL

ANALYZE AND ACT

Client Insights
Network Insights



AI Ops

PROTECT

ClearPass/Cloud Auth
Policy Manager
Overlay Flexibility



Edge-to-Cloud
Security

CONNECT

Fabric Wizard
Group Policy ID
Switch and Gateway Enforcement



Unified
Infrastructure

AS-A-SERVICE



AUTOMATION AT SCALE

Central NetConductor
Management and Orchestration

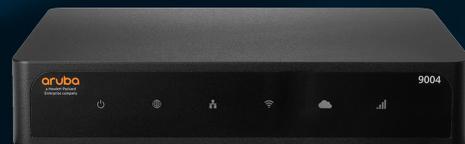


Configuration and
Policy Distribution

Configuration and
Policy Distribution

SITE 1

SITE N



Gateway



Access



Gateway



Access

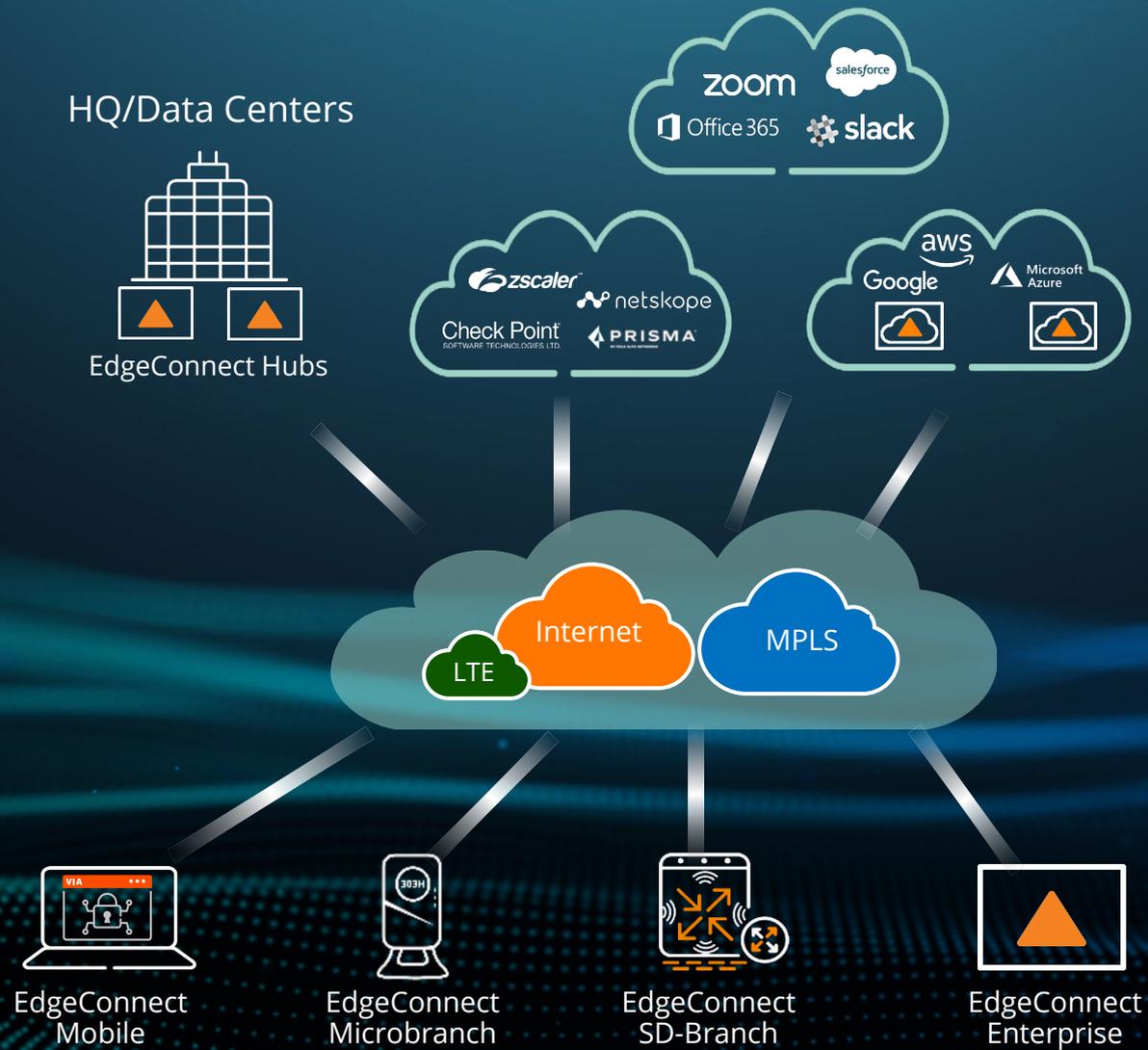


MICROBRANCH HYBRID WORKPLACE SOLUTION

SECURE, IN-OFFICE EXPERIENCE TO EMPLOYEES ANYWHERE

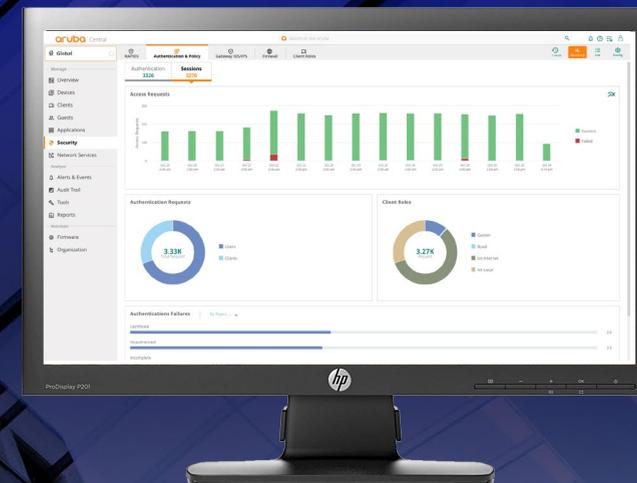


A UNIFIED SD-WAN FABRIC



SOLVING CUSTOMER CHALLENGES INTRODUCING CLOUD AUTH

ARUBA CENTRAL

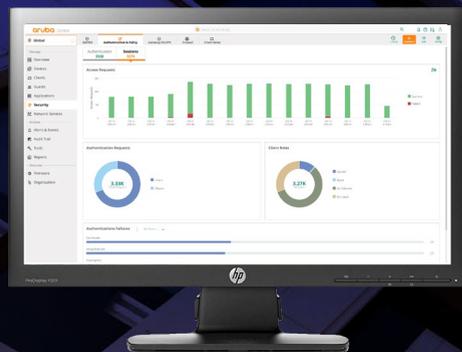


Integrated creation of roles and authentication/authorization workflows.
Built into Aruba Central Cloud for simplicity.
A shift to cloud-managed NAC.



MODERN EDGE TO CLOUD SECURITY

BENEFITS TO IT



Visibility into authentication traffic patterns through dashboards



Authentication validated against cloud identity stores to grant access



Leverages Central Client Insights for accurate profiling and behavior monitoring.

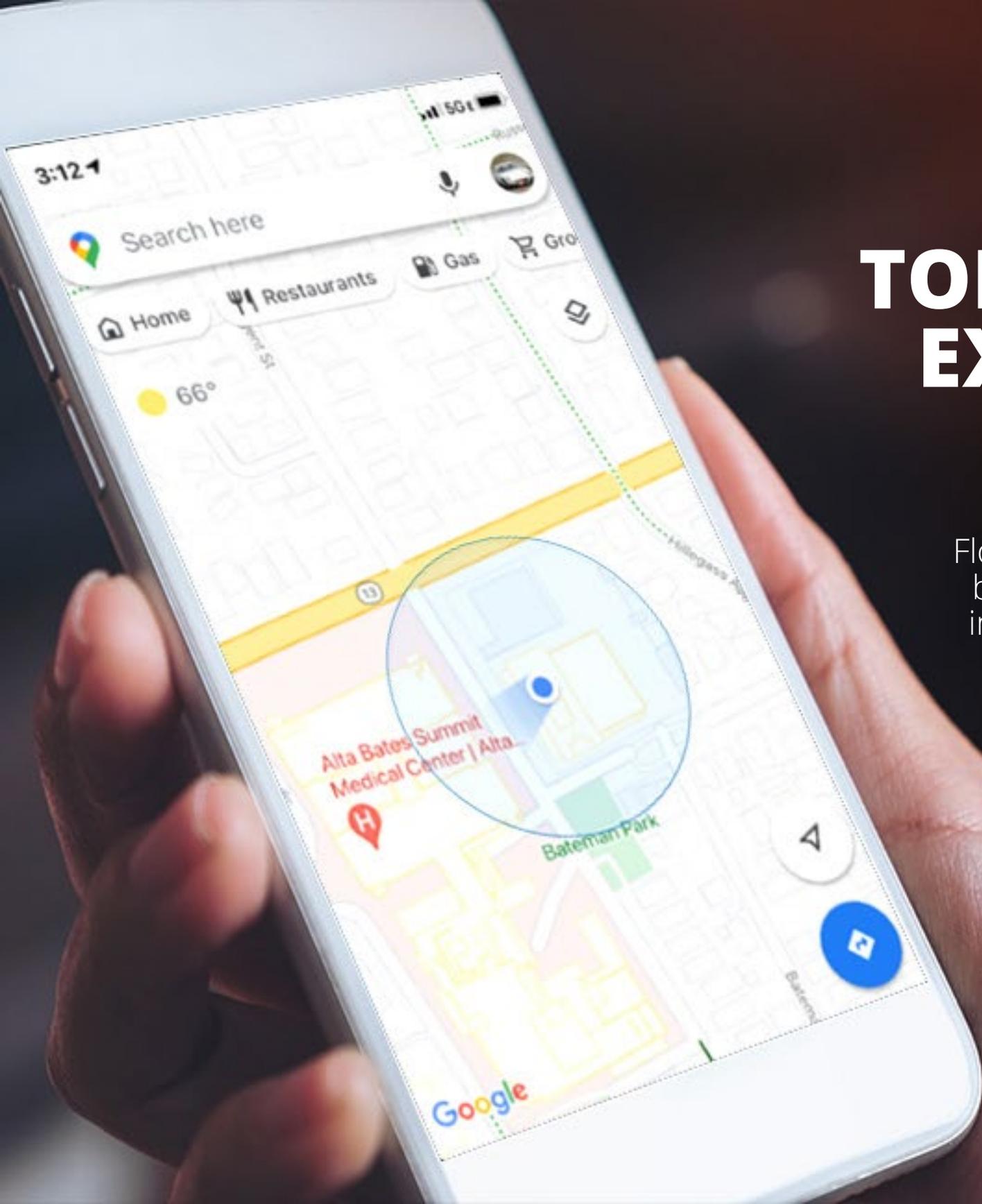


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AIOPS ANALYZE & ACT





TODAY'S INDOOR LOCATION EXPERIENCE IS LACKING...

#1

Floorplans cannot be relied on for indoor accuracy

#2

Traditional Wi-Fi and Bluetooth ranging techniques are poor

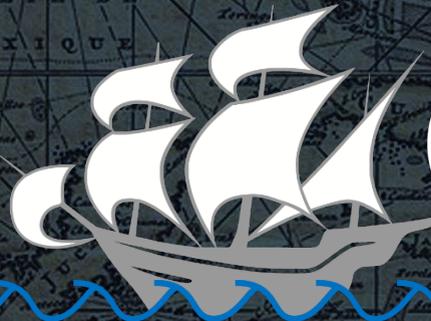
#3

Software requires extensive custom development



DETERMINING A CLIENT DEVICE'S PRECISE LOCATION REQUIRES **ABSOLUTE REFERENCE POINTS**

LATITUDE



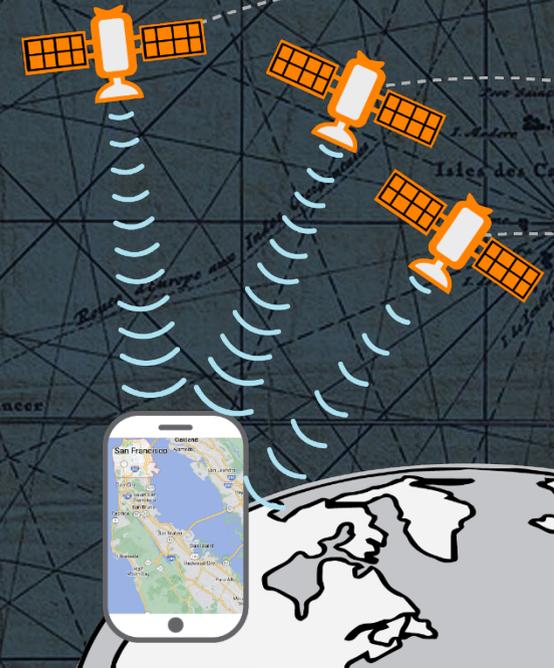
North Star

LONGITUDE



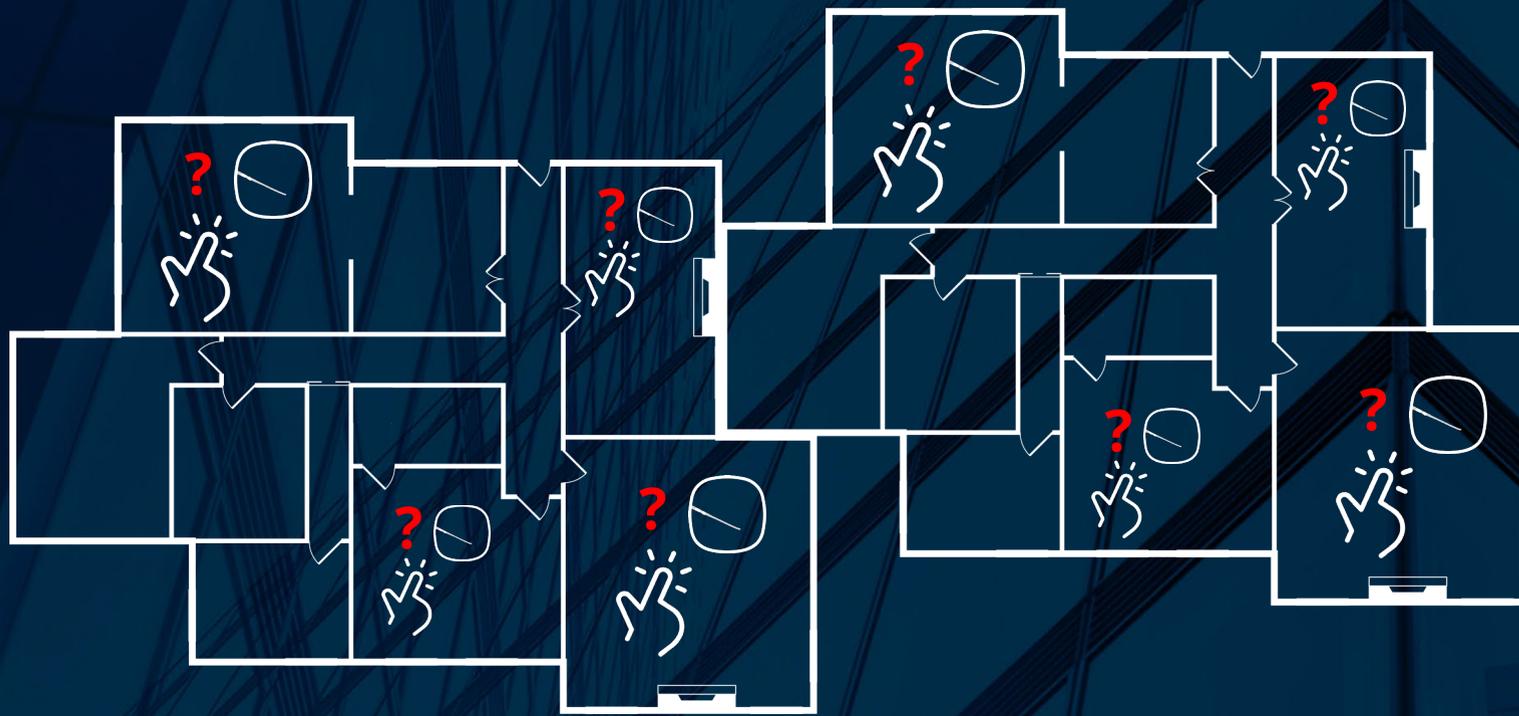
Greenwich Mean Time

SATELLITE NAVIGATION



Orbital Position

WHAT'S WRONG WITH INDOOR APs AS ABSOLUTE REFERENCE POINTS?



80% of Wi-Fi APs are not mapped

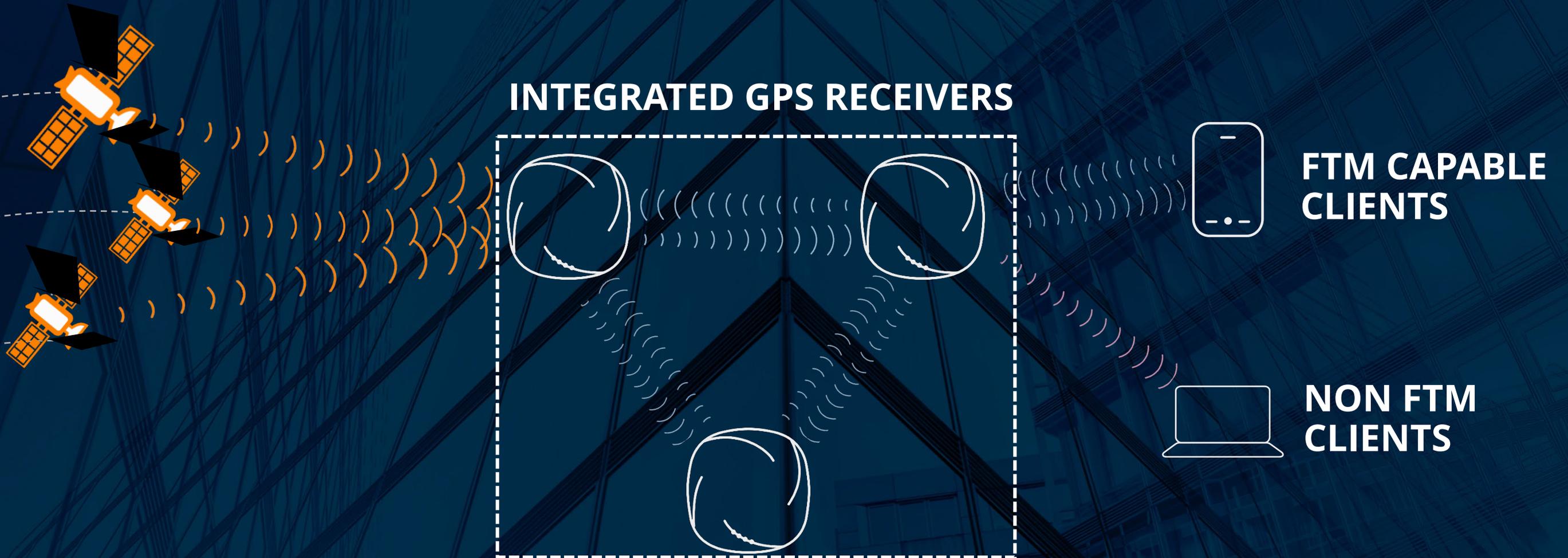
Placement errors of 5-10 meters

Floor plans are 2D-only

Not synced with Google / Apple / Bing Maps



INTRODUCING **OPEN LOCATE** WORLD'S FIRST SELF-LOCATING WIRELESS NETWORK



WI-FI CERTIFIED LOCATION

802.11mc / Fine Time Measurement (FTM)



THE ARUBA ADVANTAGE

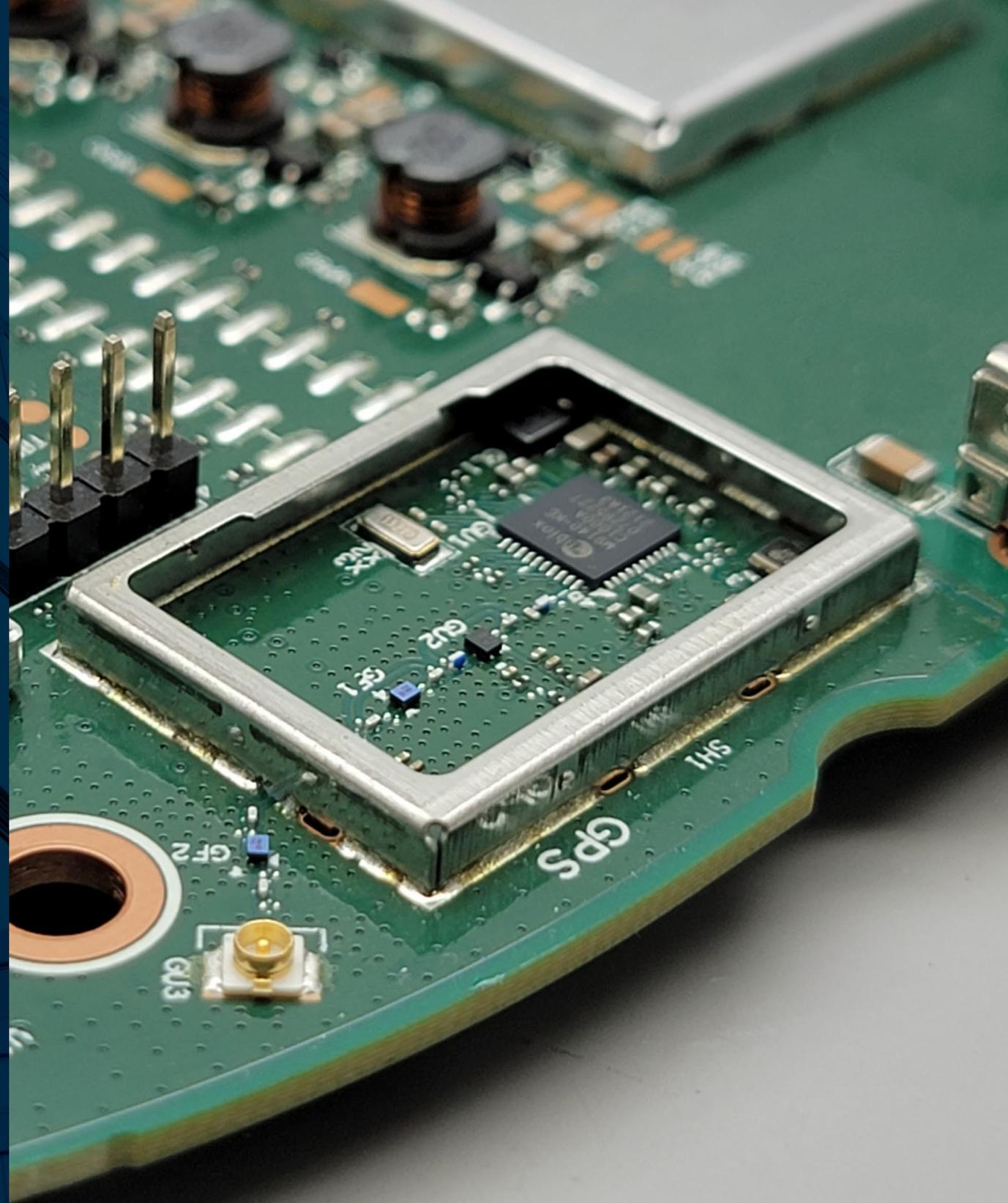
Automatic AP location discovery

Aruba AP interoperability
with Google / Apple / Bing Maps

Enabling developers to use
our location data

Ready for outdoor 6 GHz use*

*pending regulatory approval



OPEN LOCATE-READY ACCESS POINTS

WI-FI 6E AND WI-FI 6 PORTFOLIO

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

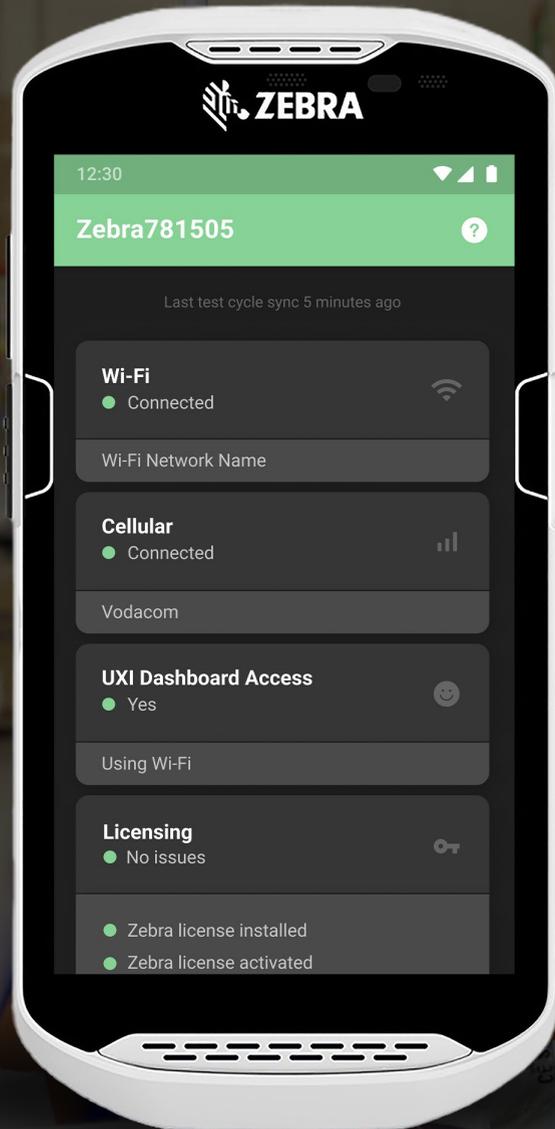


500H Series

FINE TIME MEASUREMENT

Upgrade today to take advantage of advanced location capabilities

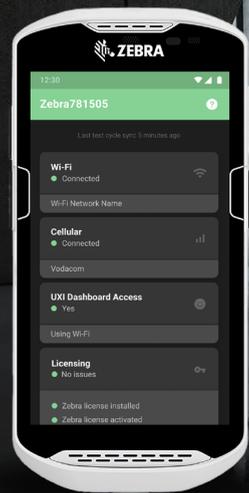




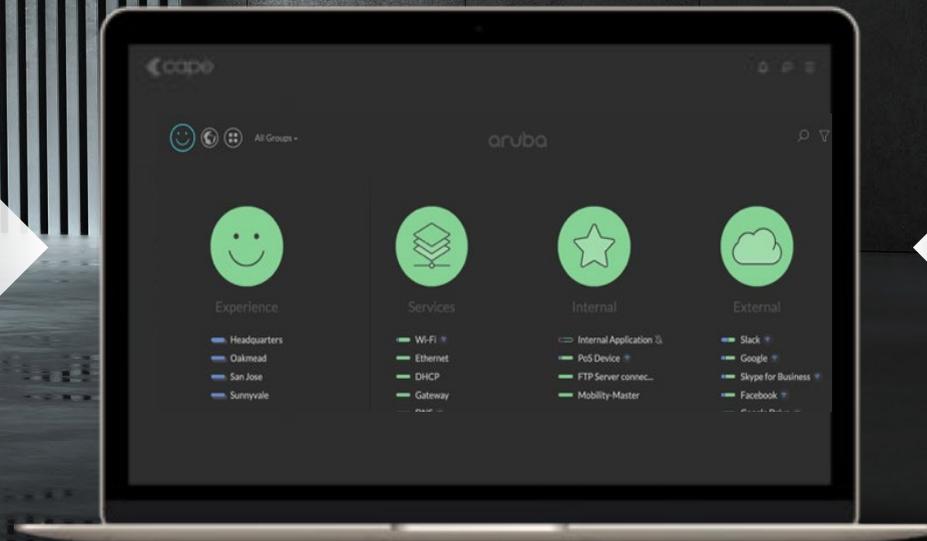
UXI AGENT FOR ZEBRA

HELPING LoB WITH DIGITAL ACCELERATION **PROBLEM RESOLUTION**

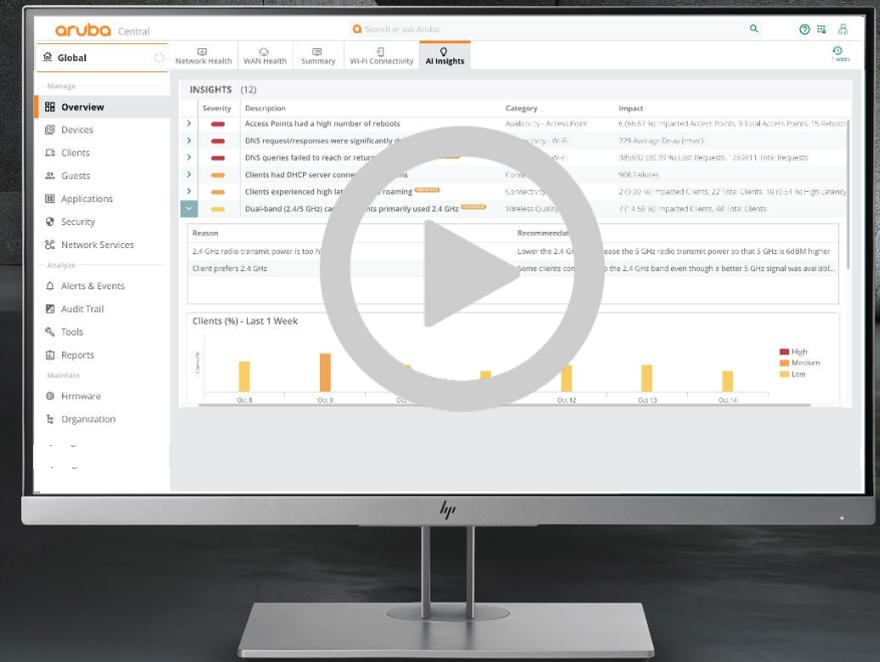
UXI Agent



User Experience Insight



Aruba Central (Open Locate)



Open Locate data from Aruba Central
enhances UXI analytics and assurance



THANK YOU AIRHEADS

2020 +33 **412** 2021 +88

JorchRock67

- Post: 10
- Replies: 15
- Kudos Given: 2
- Accepted Solutions: 1

Toube

- Post: 7
- Replies: 43
- Kudos Given: 27
- Accepted Solutions: 0

HaraldH

- Post: 7
- Replies: 21
- Kudos Given: 0
- Accepted Solutions: 0

airheads

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