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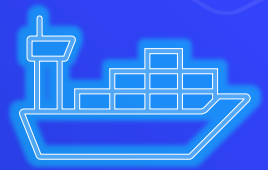
EXCEEDING LIMITS

aruba
a Hewlett Packard
Enterprise company



Into the Safe Ports of Technology. Connectivity, Security & AIOPS all in One.

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Classification: Private

55B devices will be connected worldwide by 2022 – IDC

aruba
a Hewlett Packard Enterprise company

75% of data will be created and processed outside the traditional data center or cloud – Gartner

INNOVATING

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EXCEEDING LIMITS

EDGE SERVICES PLATFORM (ESP) ARCHITECTURE

CONNECTIVITY, SECURITY AND AIOPS CONVERT DATA INTO BUSINESS OUTCOMES

ARUBA CENTRAL

3 ANALYZE AND ACT	AI-Powered features identify issues before they impact business and help IT resolve issues more quickly	AIOPS
2 PROTECT	Applying principles of Zero Trust to increase protection levels while simplifying operations	ZERO TRUST SECURITY
1 CONNECT	Unify network operations across all domains and locations	UNIFIED INFRASTRUCTURE

As a Service

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STEP 1: CONNECT

SIMPLIFY & SECURE OPERATIONS WITH A UNIFIED INFRASTRUCTURE

Aruba Central provides single pane of glass for Aruba ESP

Single architecture for Wi-Fi, Wired, WAN; campus, branch, data center & remote workers

AIOps for LAN, WLAN, SD-WAN, Security in Aruba Central

Core/Aggregation LAN

Data Center Spine/Leaf

Secure Access Control

SD-Branch Gateway

Virtual Gateway

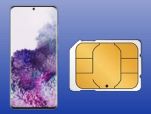
SD-WAN Gateway

VPN Client (VIA)

Access Point

Access Switch

User Experience (UXI) Sensor


Air Pass (Wi-Fi6 - 5G)

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EXCEEDING LIMITS

WIRELESS ACCESS AS A SECURE IoT PLATFORM

GPS RECEIVER

BLE

ZIGBEE

USB

3RD PARTY

ARUBA ECOSYSTEM PARTNERS

ses imagotag

SOLUM

HermanMiller

Patrocinium

EnOcean

ASSA ABLOY

SIEMENS

SpaceIQ

ABB

wiliot

HID

GE Healthcare

STANLEY Healthcare

HYPROS

dormakaba

...and many more

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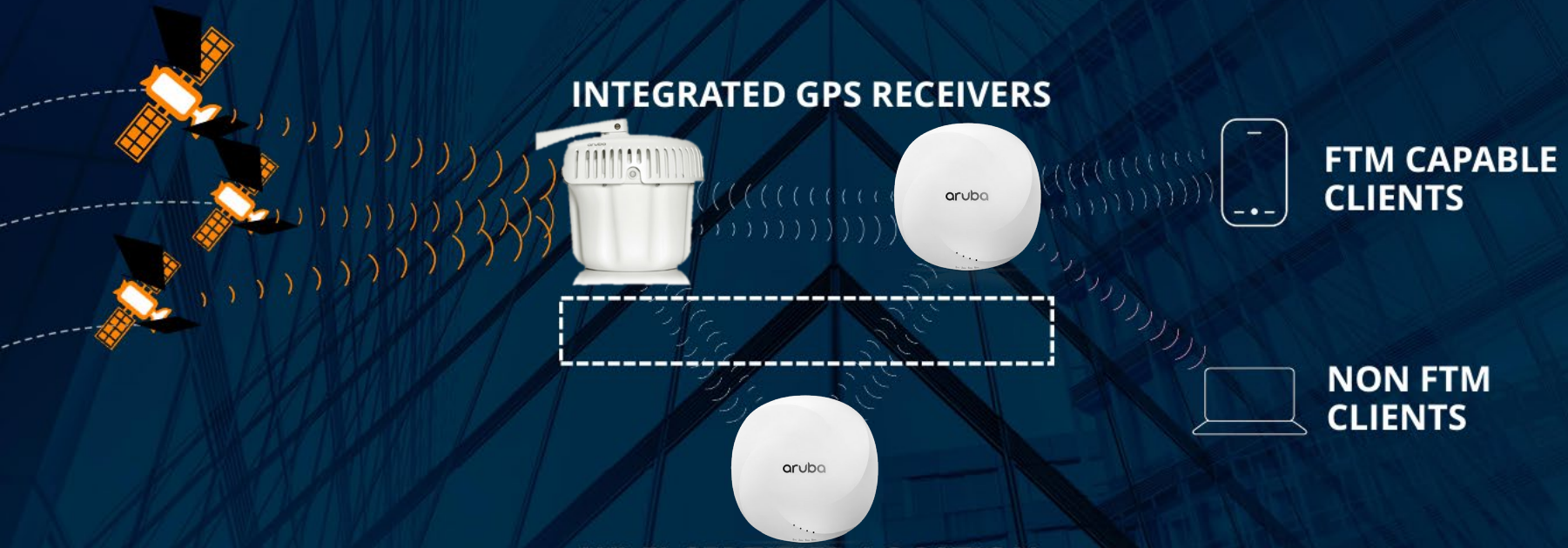
INTRODUCING OPEN LOCATE

WORLD'S FIRST SELF-LOCATING WIRELESS NETWORK



WI-FI CERTIFIED LOCATION

802.11mc / Fine Time Measurement (FTM)

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ARUBA ACCESS POINT AS THE IOT GATEWAY

802.11AX (Wi-Fi 6) RADIO

- CERTIFIED Wi-Fi 6 SOLUTION
- Wi-Fi ENABLED EMPLOYEE BADGES
- SMART WRIST BANDS TELEMETRY SENSORS
- WiFi BASED ANALYTICS
- DENSE ENVIROMENT AND ROAMING
- CONNECT FROM ANYWHERE RAPS

802.15.4 ZIGBEE RADIO

- SMART ROOM MANAGEMENT
- DOOR LOCK MANAGEMENT
- FOOD SAFETY SENSORS
- SAFE SENSORS
- TEMPERATURE SENSORS

Microsoft Azure
IoT Platform

BLUETOOTH 5 RADIO

- WAY FINDING
- TEMPERATURE CONTROL
- AUTOMATED NOTIFICATION SERVICES
- ENERGY / HEATING, AIR QUALITY SENSORS

USB PORT

- DIGITAL SHELF LABEL
- SMART LIGHTING & METERING
- CELLULAR INTERFACES

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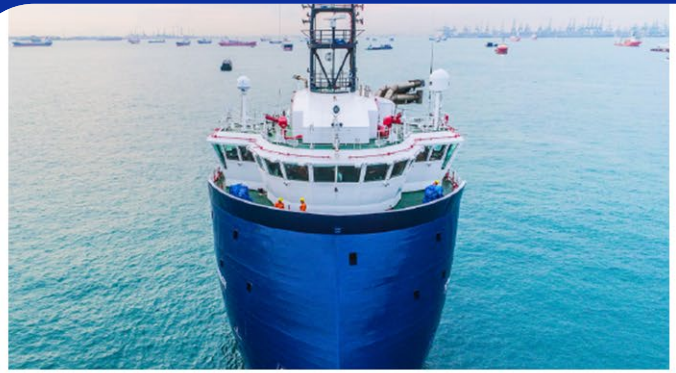
ENABLING SOLUTIONS FOR SMART MARITIME CONNECTIVITY



Room Occupancy, People Activity

Desk Utilization

People Counting

Desk / Room Status

Energy Saving

Up to 30% energy savings by single room control

Heating Valve (thermal powered)

Presence & Window Status

Room Thermostat

Switching, Dimming & Power Measurement

Health & Cleaning

15% higher employee productivity by healthy environment

Air Quality: CO2, VOC, Noise

Utilization of Room/Table/Device

Dispenser Level

Service Call

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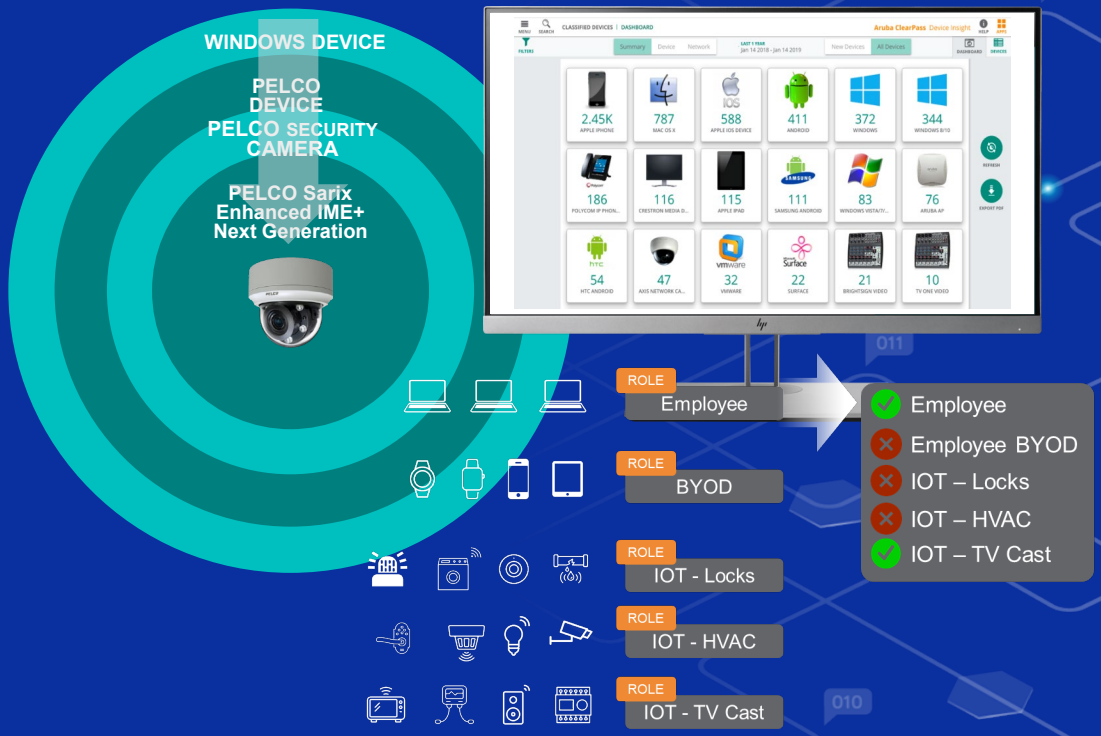
STEP 2: PROTECT

PROTECT WITH A ZERO TRUST NETWORK

ZERO TRUST SECURITY

- Machine learning-based Automated device discovery, profiling
- Role-based Policy
- Integrated with policy-based access control
- Dynamic Segmentation



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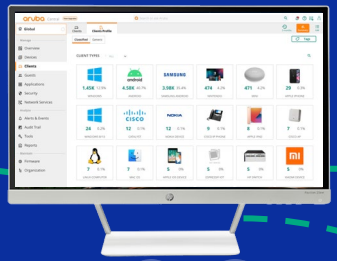
ARUBA CENTRAL CLIENT INSIGHTS

Device Profiling with powerful AI

1 Clients **automatically stream** telemetry with or without dedicated sensors

2 **AI/ML** models pinpoint exact client types



Aruba Central cloud

3 AI/ML continuously monitors ***expected behavior*** to match that of corresponding types

Square Register

Square Server

Tyco Cloudvue CCTV

Cloudvue Server

Connex

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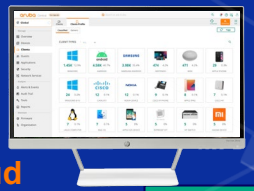
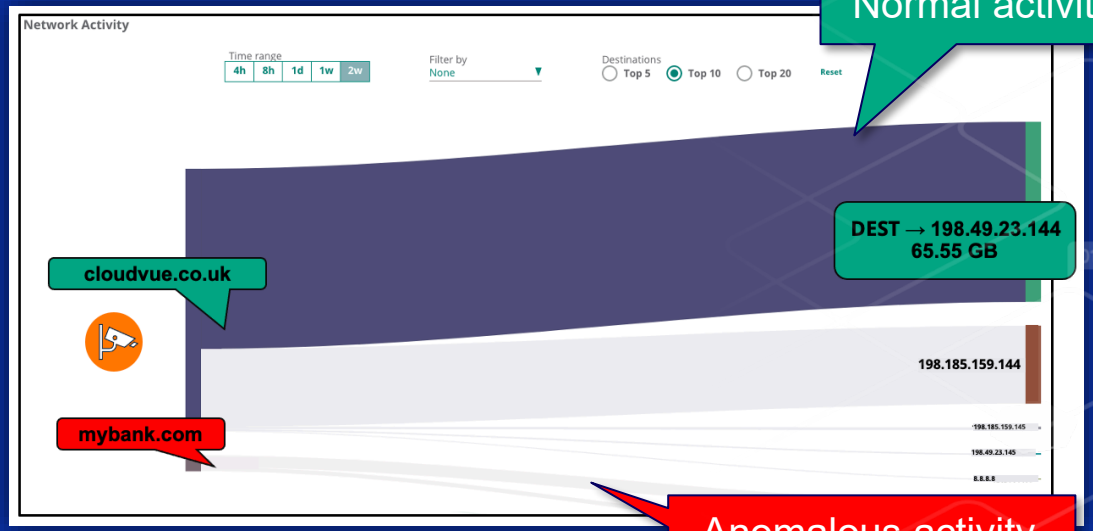
EASY-To-SEE CLIENT ACTIVITY

Device Visibility & Insights

- Continuously tracks >4500+ applications
- Highlights activity by destination and bandwidth used
- Device Visibility = = first step to Zero Trust Security



Aruba Central Cloud



Accurate Device Profiling enables
Secure Policy Enforcement
– with Aruba ClearPass Policy Manager

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CLEARPASS CAPABILITIES

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STEP 3: ANALYZE AND ACT

REDEFINE IT OUTCOMES WITH AI OPS

Network Insights

Proactive network anomaly detection and optimization

AI Search

Natural language queries for fast troubleshooting

AI Assist

Automated Aruba TAC trouble ticket generation

Client Insights

Accurate IoT profiling to drive capacity planning & security policies

Incident Detection

UXI

Automated application performance monitoring

Network Insights: Anomaly Detection, Troubleshooting & Optimization

Client Insights: Behavior / Security

User Insights: Application Experience

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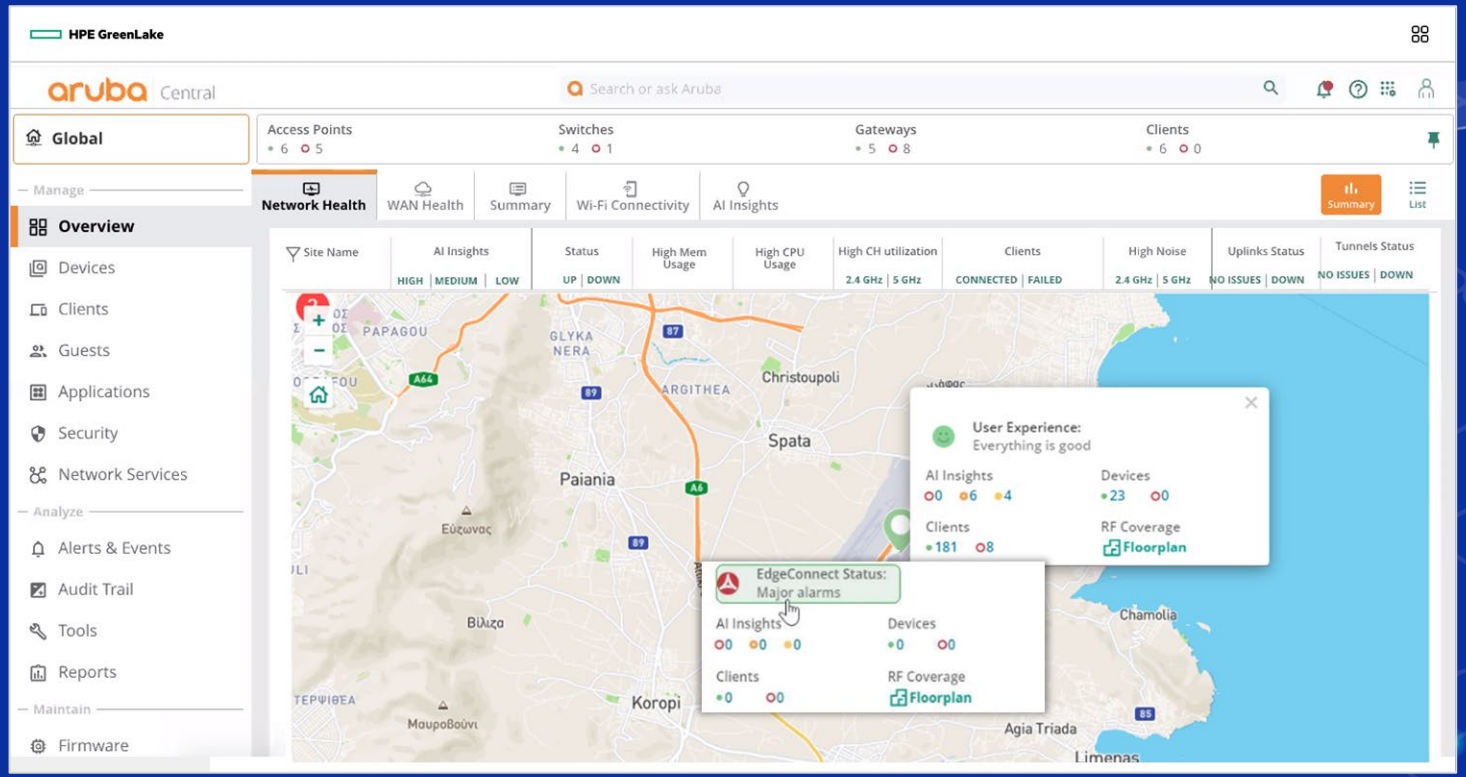
ARUBA CENTRAL – CLOUD aaS PLATFORM

Unified management of Wireless, Wired, SD-WAN, AIOps & Analytics



View WiFi, LAN, SD-WAN topology, health status and alarms in Aruba Central

Monitor & Manage Connectivity, Clients, Guests, Applications, Security from Central

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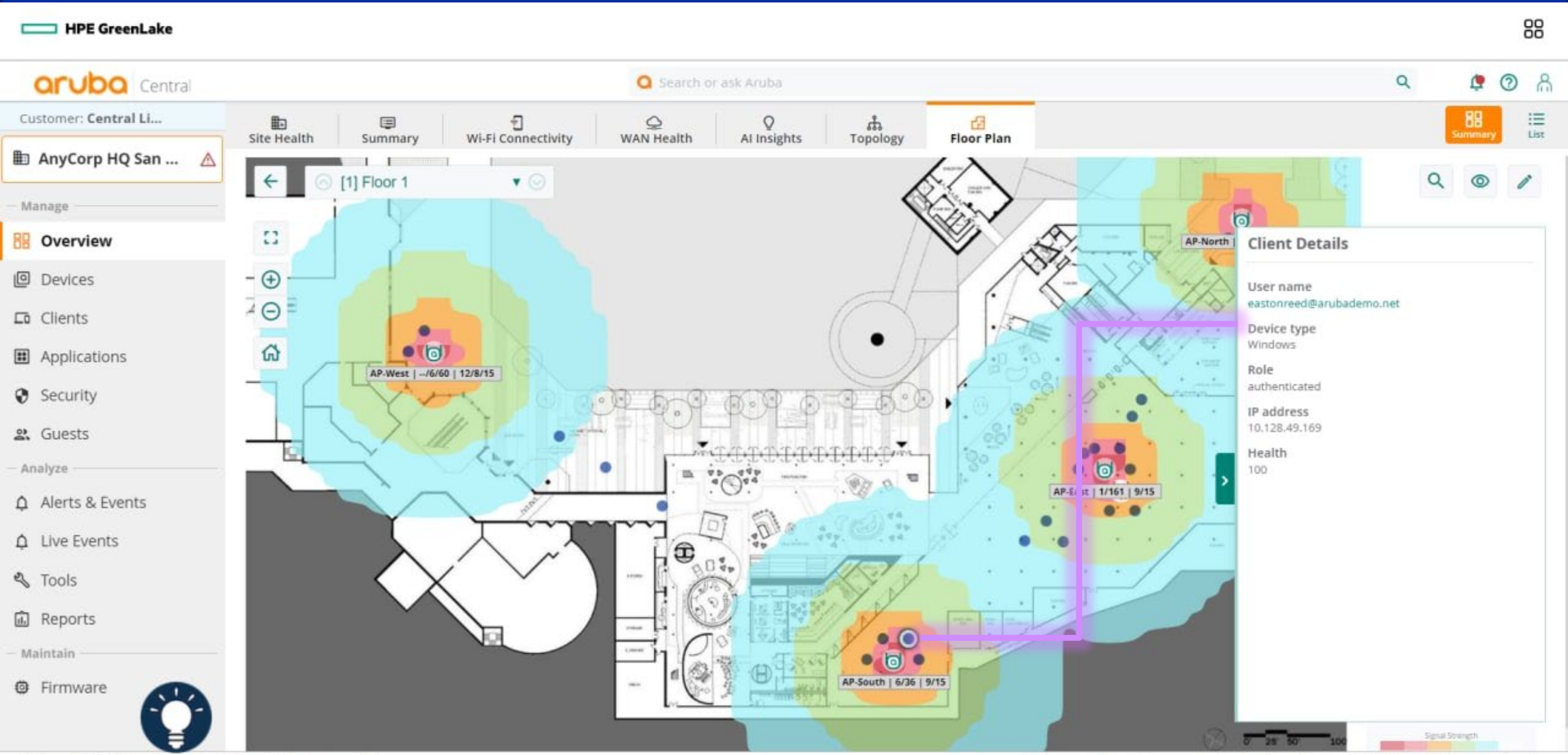
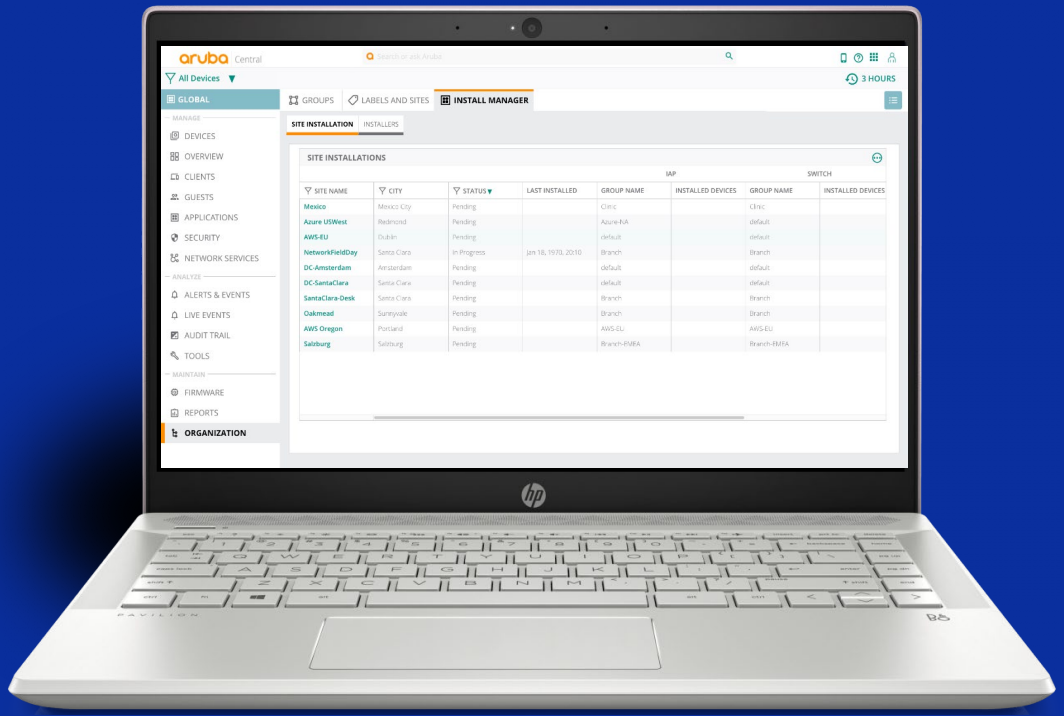
LOCATION ANALYTICS

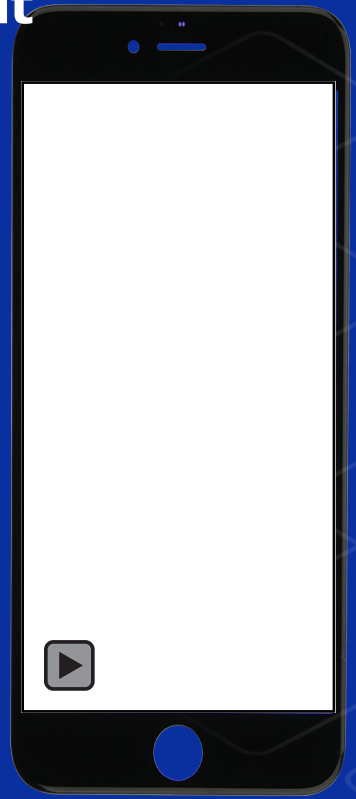


ZERO TOUCH PROVISIONING

Zero Touch Provisioning for efficient roll-out

Aruba Installer Mobile App Demonstration





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GET IT ON Google Play

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USER EXPECTATIONS

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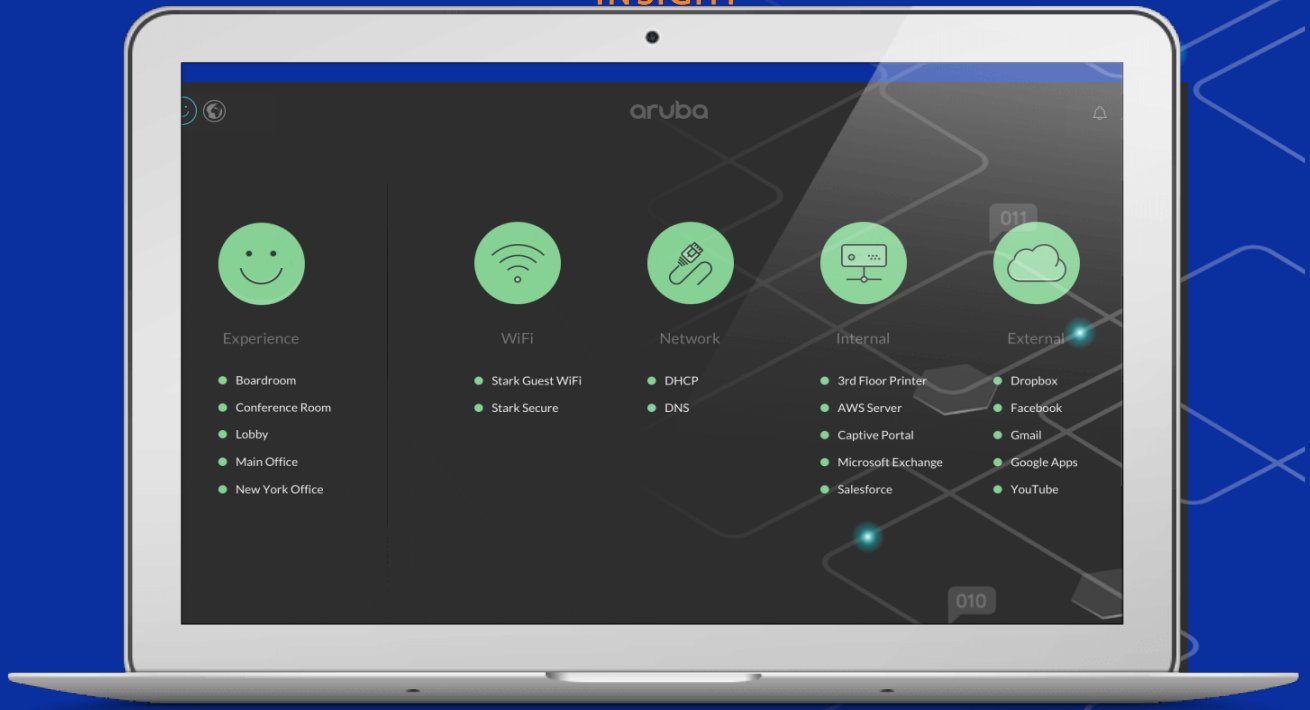
MEASURE USER EXPERIENCE

USER & APP EXPERIENCE - SERVICE & APPLICATION ASSURANCE REMOTE TROUBLESHOOTING

- Create a Solid Baseline for Multiple Sites
- Prioritize Negative Experiences
- Provide a Consistent Experience across stores

USER EXPERIENCE INSIGHT



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WHY INFINITUM

- Expertise from hundreds Aruba Networking & Security projects implementation in numerous verticals, counting since the acquisition of Aruba by HPE (2015).
- Strong partnerships, rewarding relationships. Gold Aruba and Gold HPE Partner
- Ready to provide exceptional design, integration, deployment, support & maintenance
- Plethora of certified professionals

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iNFINITUM in a NUTSHELL

- Healthy, booming Service Provider
- In business for 30+ years
- Excellence & adherence to ethical behavior are our primary assets
- Highly successful projects for major clients across all business sectors
- Top – level partnerships with leading Software and Hardware Vendors

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Always by your side

Deploying optimal IT solutions

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Thank you!

Any questions?

find us at: welcome@infinitum.gr