

SASE vs zero trust

Ken Van Campenhout, Aruba

A woman in a green blouse and grey skirt is wearing a VR headset and gesturing with her hands. She is standing in front of a yellow industrial machine. The background is a factory setting with various equipment and a teal wall.

aruba

a Hewlett Packard
Enterprise company

SASE vs Zero Trust

An Aruba Edge Services Platform Approach

Ken Van Campenhout
Aruba BeLux Technical Enablement

Aruba ESP Architecture For Connectivity And Security

Converting Edge data into Business Outcomes



REMOTE



BRANCH OFFICE



CLOUD



CAMPUS



DATA
CENTER

ARUBA CENTRAL (Cloud or On-prem)

AI-Powered features identify issues before they impact business and help IT resolve issues more quickly

AIOPS

Applying principles of Zero Trust Security and SASE to increase protection levels while simplifying operations

EDGE-TO-CLOUD

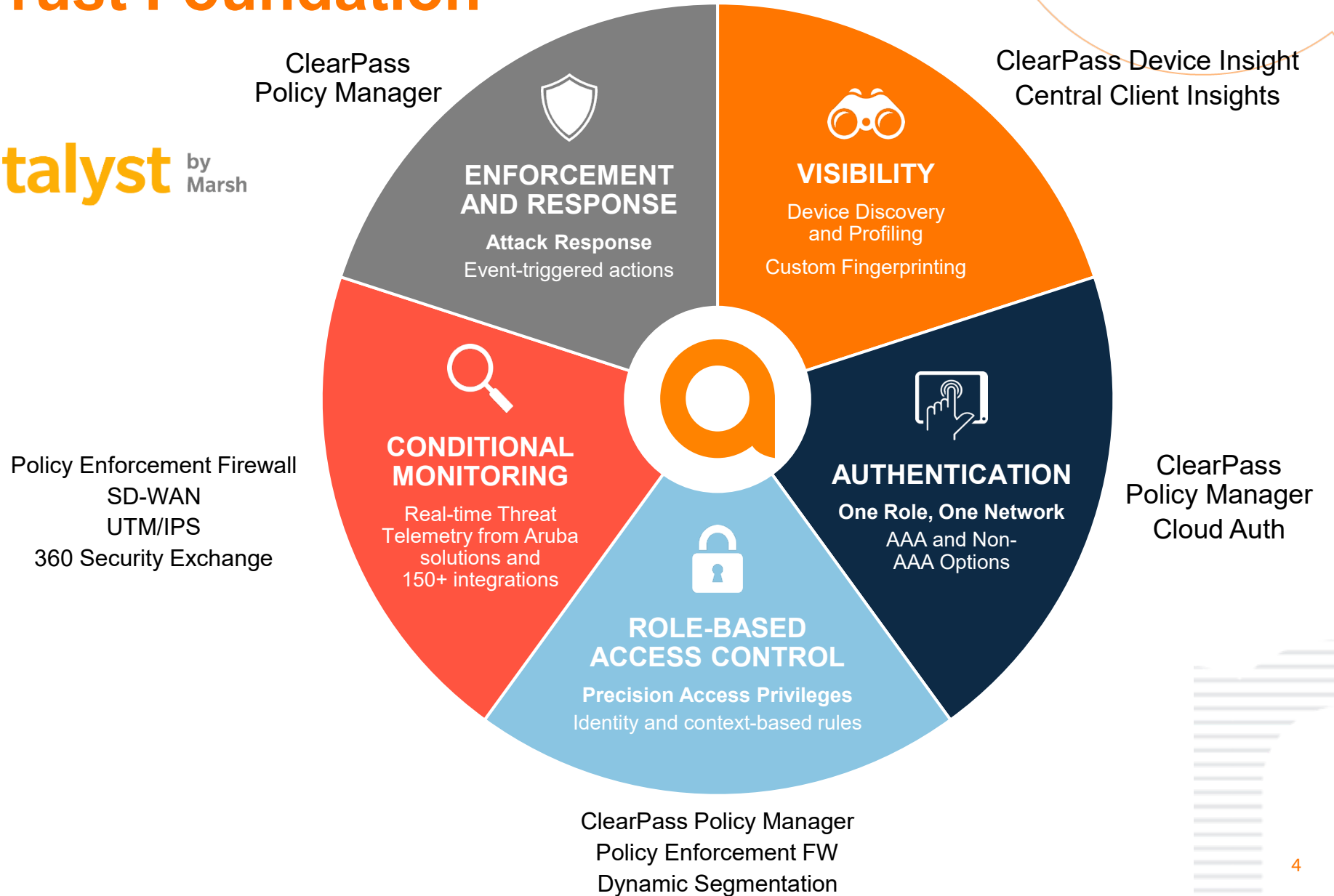
Unify network operations across all domains and locations

**UNIFIED
INFRASTRUCTURE**

Network-as-a-Service



Aruba Zero Trust Foundation



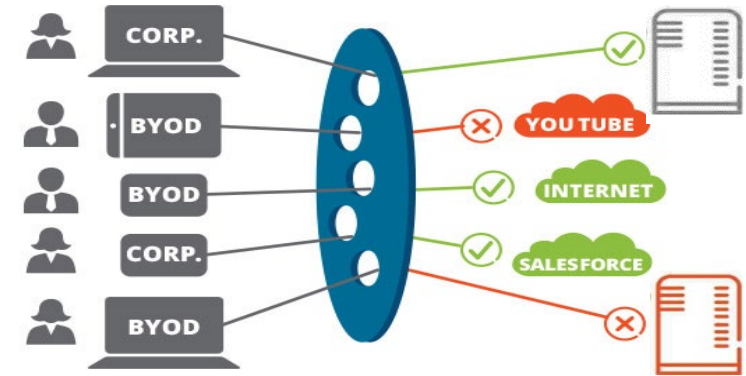


Campus

Dynamic Segmentation

What is Dynamic Segmentation ?

- ✓ Establishes **least-privilege access** to IT resources
- ✓ Traffic is segmented based on **'Roles'** and **associated access permissions**
- ✓ Trust is based on roles and policies : Fundamental concept of both **Zero Trust** and **SASE** frameworks
- ✓ Users and devices only communicate with **destinations consistent with their Role**



| | Camera | Surveillance Headend | POS Terminal | Transaction Processing | Contract Recruiter | HR Apps |
|------------------------|--------|----------------------|--------------|------------------------|--------------------|---------|
| Camera | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| Surveillance Headend | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| POS Terminal | ✗ | ✗ | ✗ | ✓ | ✗ | ✗ |
| Transaction Processing | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ |
| Contract Recruiter | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ |
| HR Apps | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ |

A Look At Client Insights

Complete Endpoint Inventory Solution Built Into Aruba Central cloud

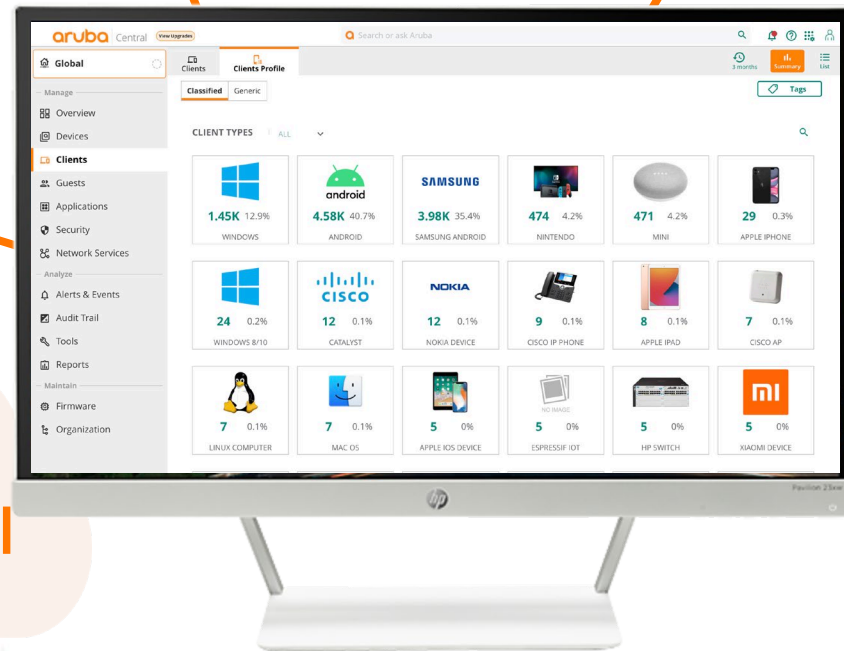
No additional hardware - reduces complexity & CAPEX

Immediate ROI with IT efficiency gains

Accurate AI/ML profiling with up to 99% accuracy

Always-on AI/ML monitoring protects against security breaches that could potentially cost up to \$4 million¹

Aruba Central

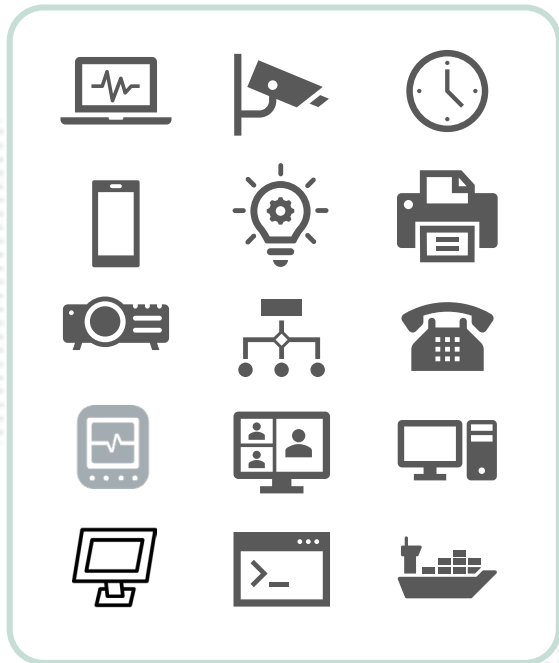


¹ As per the Cost of Data breach 2021 report by Ponemon Institute, data breach costs rose from USD 3.86 million to USD 4.24 million in 2021.

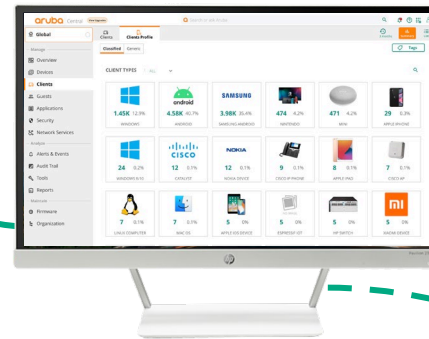
How Client Insights Works

Scale and Client Variety Make AI a Necessity

1 Clients automatically stream telemetry without dedicated appliances



2 Our AI models pinpoint exact client types



Aruba Central cloud

3 AI continuously monitors *expected behavior* to match that of like types



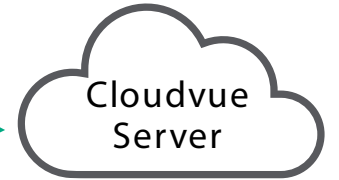
Square Register



Square Server



Tyco Cloudvue CCTV



Cloudvue Server



Welch Allyn Connex

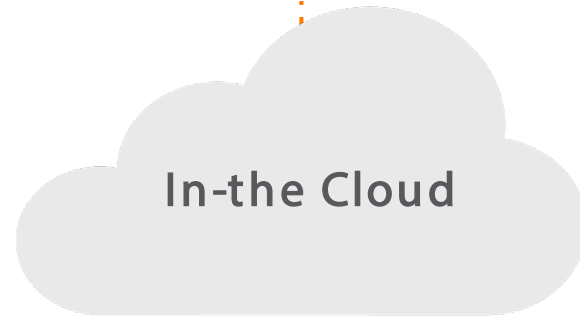


HL7 Server

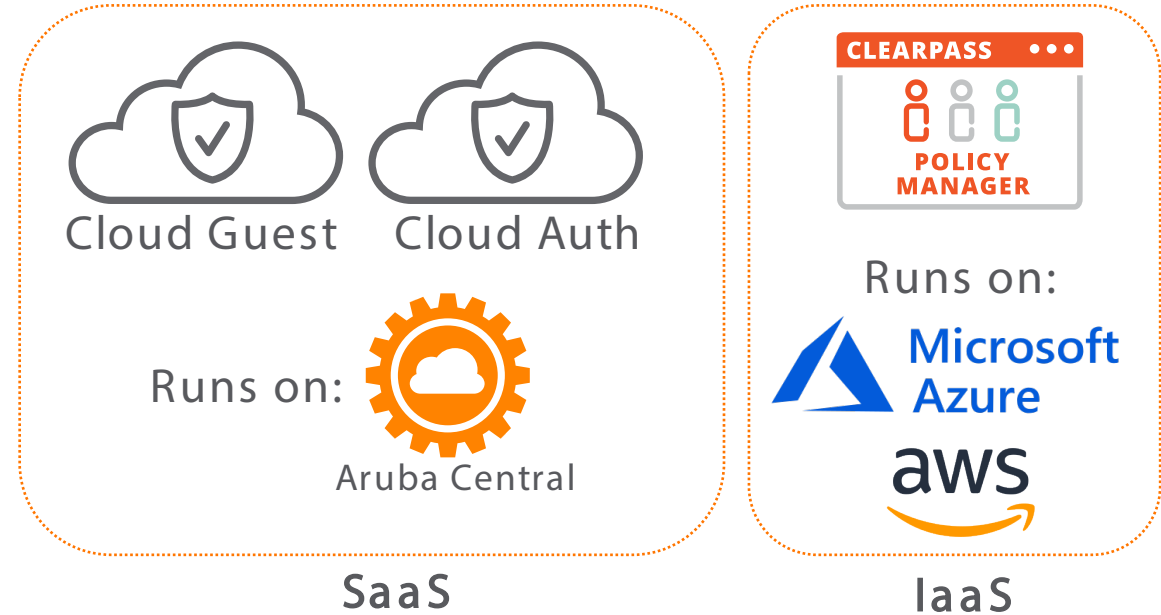


Authentication options in the cloud and on-premises

Identity Stores



Authentication Services

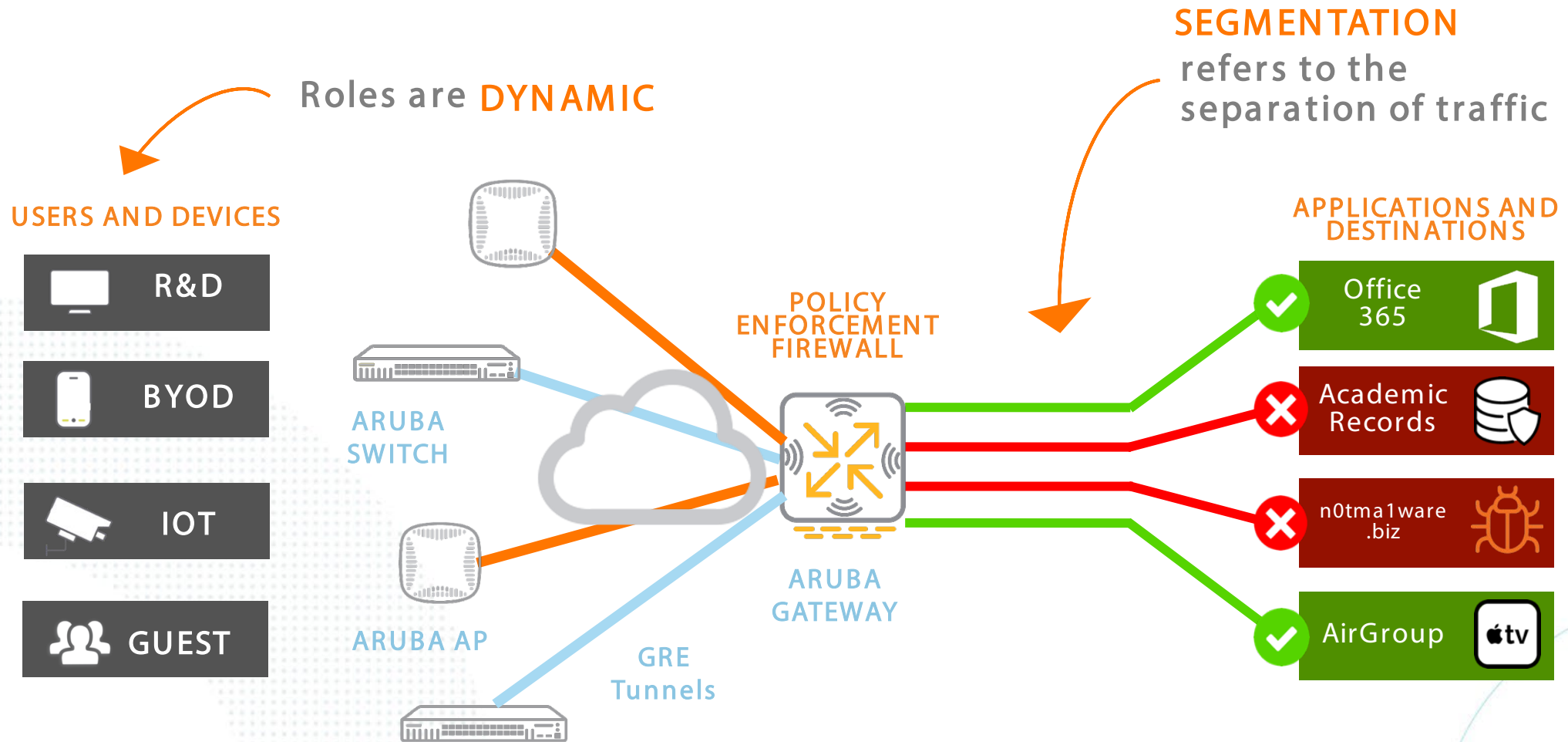


On-premises



Centralized Overlay

Unifying role-based access and policy enforcement across wired, wireless, and WAN networks



Distributed overlay

Aruba Central NetConductor

- ✓ Enhancement of Dynamic Segmentation for global scale and performance
- ✓ Cloud-native network & security services
- ✓ Overlay-based (EVPN/VXLAN) automation with intent-based workflows
- ✓ 'Inline' policy enforcement by CX switches and gateways
- ✓ Flexible migration and investment protection

Cloud-Native Single Pane of Glass



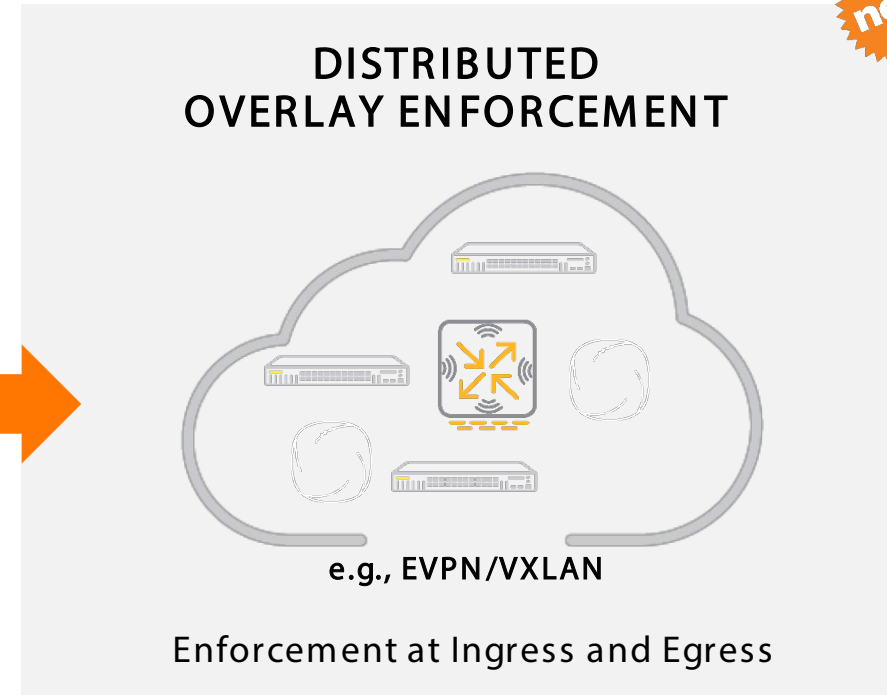
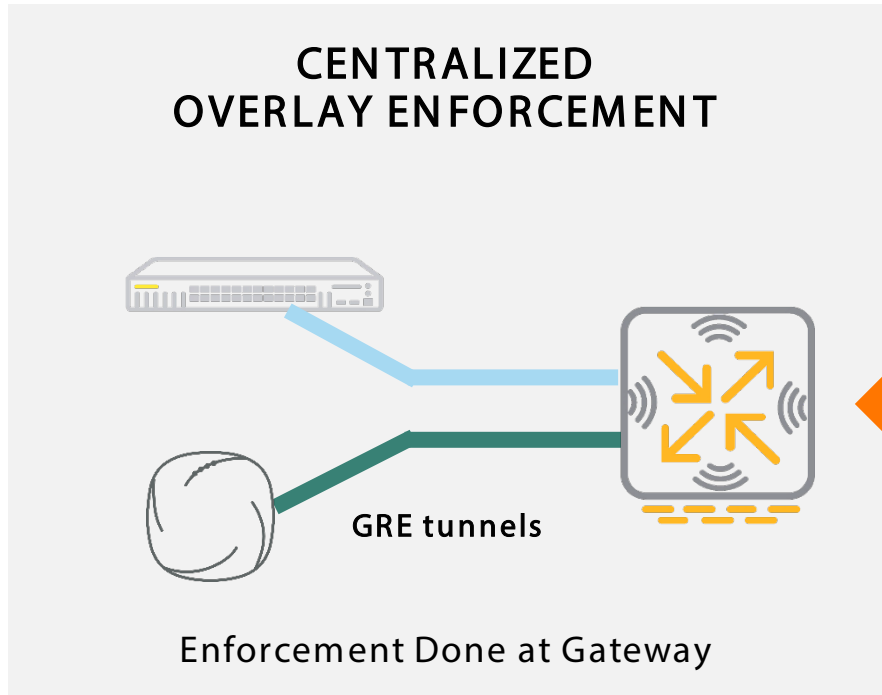
Zero Trust & SASE Security with Role-Based Policies



Flexible and Scalable Networks

Choice of Fabrics with Dynamic Segmentation

new



- ✓ Simple and easy to deploy
- ✓ Consistent experience across wired & wireless
- ✓ Enhanced security features

- ✓ Open & multi-vendor ready
- ✓ Higher scale and performance
- ✓ Consistent operations across campus & data center



SD-WAN

Best of breed solutions

Delivering Zero Trust and SASE Frameworks

Some Critical Building Blocks



Zero Trust Segmentation

Users and devices

- ClearPass integration with Aruba SD-WAN
- Fine-grained segmentation
- Highest quality of experience and compliance



Unified Branch Security

Advanced threat defense

- Integration of Aruba IDS/IPS to SD-WAN
- Built-in threat detection and prevention
- Policy-driven enforcement



Expanding Partner Ecosystem

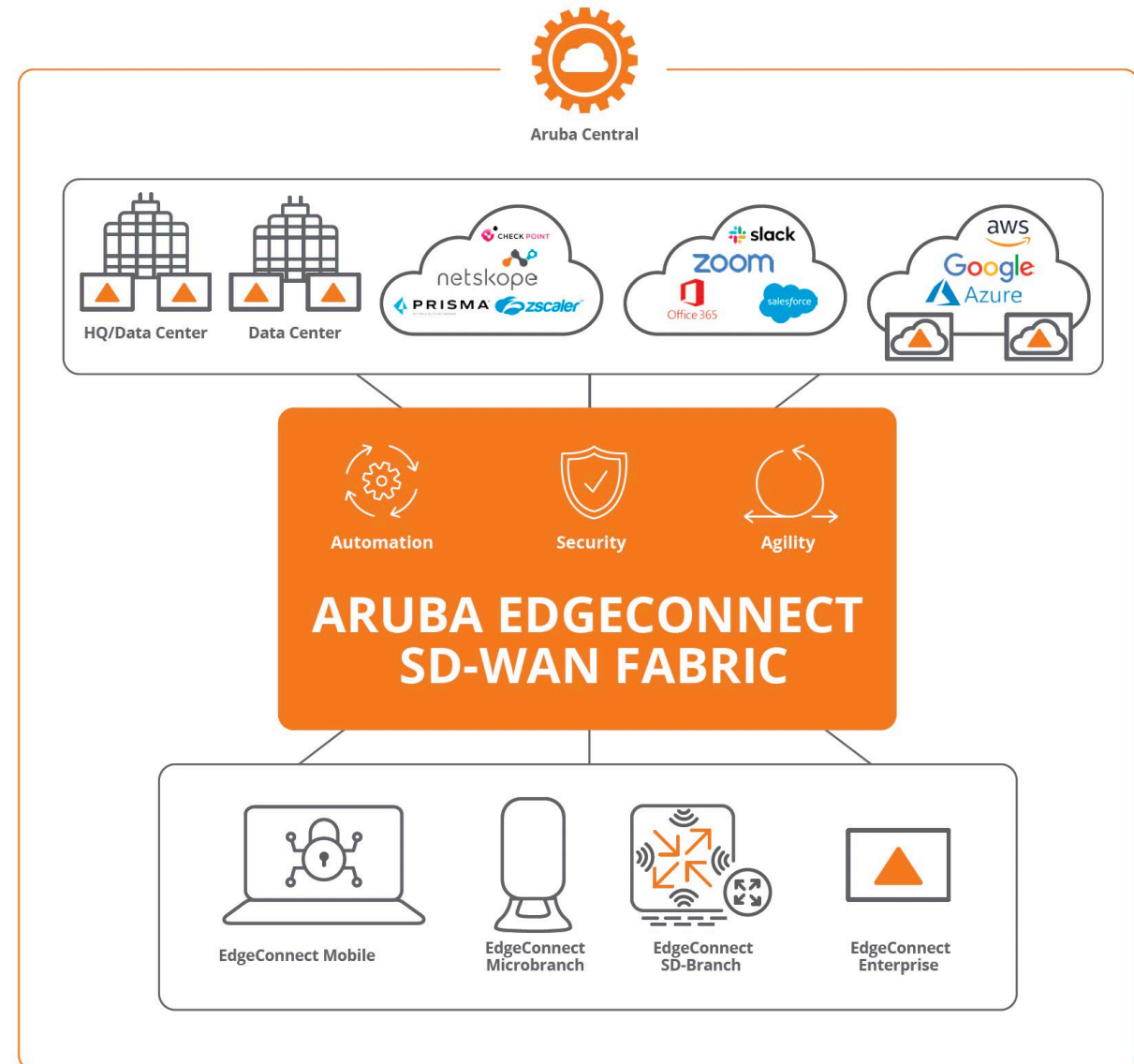
Freedom of choice

- Service orchestration workflow
- Pre-configured default information
- Automatically associate sites with proximity-based cloud security services



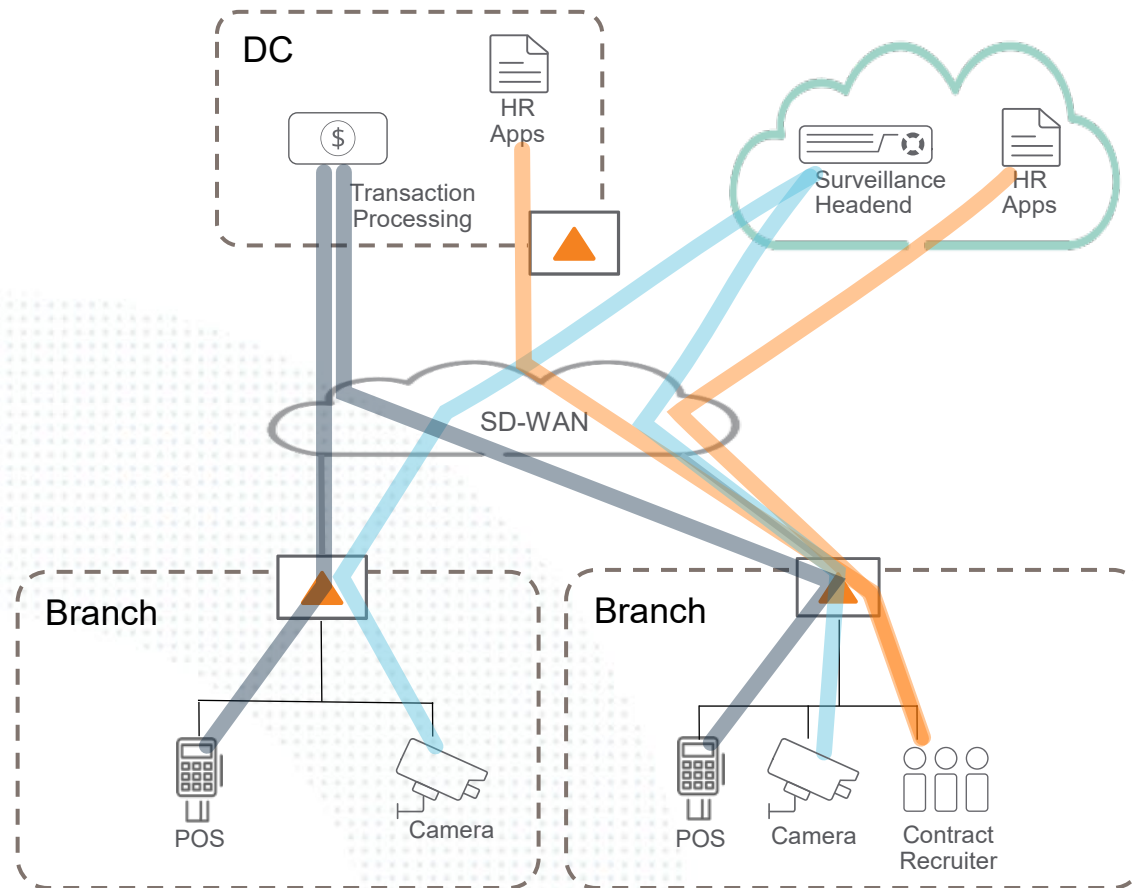
Aruba Provides a Single SD-WAN Fabric

- ✓ Connectivity for locations of all sizes
- ✓ Automated integration with industry leading cloud-based security providers
- ✓ Centralized QoS and security policy configuration with Aruba Central



Zero Trust Dynamic Segmentation Extended to WAN

Users/Clients only communicate with destinations consistent with roles



- ✓ Identify users and devices by identity, role and security posture
- ✓ Dynamically segment and isolate application traffic based on context
- ✓ Meet compliance mandates
- ✓ Business-driven policy example

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| Contract Recruiter | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ |
| HR Apps | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ |



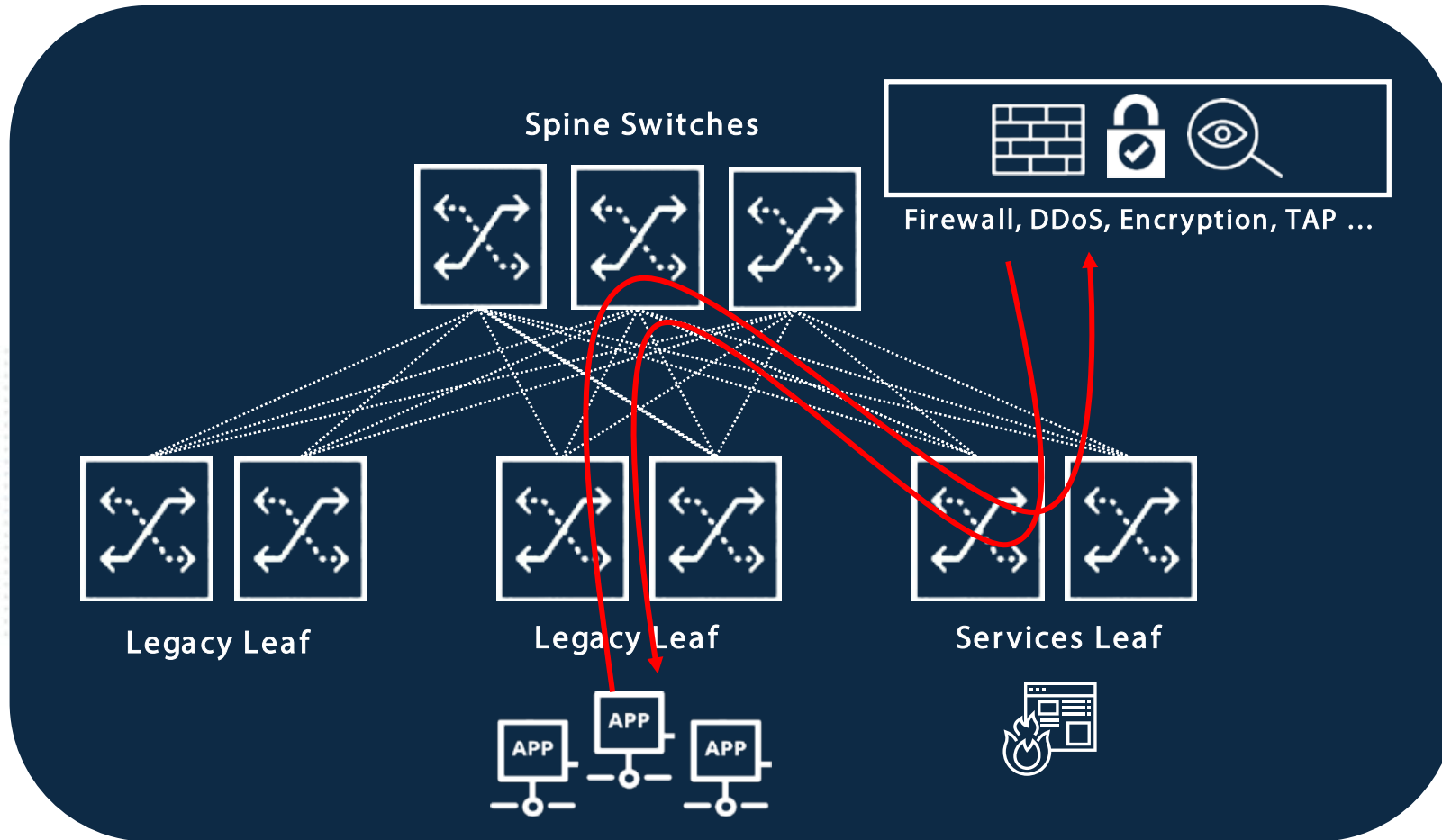


Datacenter

Protecting the unprotected

Challenges with DC services today

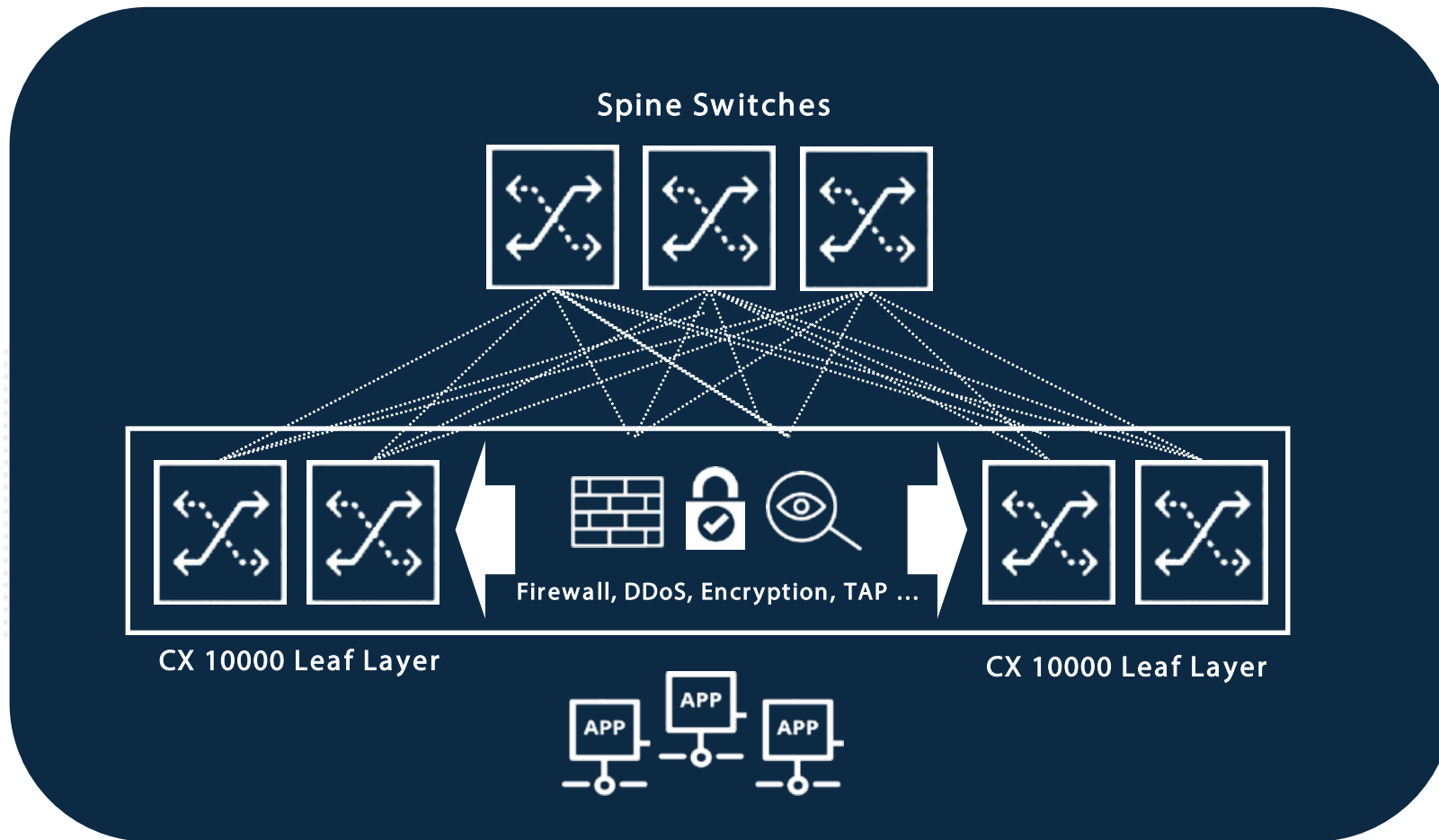
Tromboning to services appliance clusters



- ✓ 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

Meet the Distributed Services Switch

A new switching category

ARUBA CX 10000

PENSANDO

L4-L7 Stateful Software Services

FIREWALL DDOS TELEMETRY ENCRYPTION* NAT* SLB*

The image shows a black Aruba CX 10000 switch with a large number of ports. Above the switch, there are six circular icons representing different services: Firewall (flame and shield), DDoS (DDoS text and shield), Telemetry (telemetry icon), Encryption (lock and cloud), NAT (bidirectional arrows), and SLB (load balancer icon). The Aruba logo is visible on the top of the switch.

- ✓ 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

The Aruba logo consists of the word "aruba" in a lowercase, bold, orange sans-serif font. The letters are closely spaced, and the 'a' and 'u' have a distinctive shape with a small gap at the top.

a Hewlett Packard
Enterprise company

The text "Thank you" is written in a large, bold, orange sans-serif font, centered horizontally on the page. The background behind the text is a light blue grid of small dots that fades out towards the right.