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Application-aware SDWAN

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Aruba Secure WAN Edge Portfolio

Current Aruba Portfolio

Aruba EdgeConnect (Silver Peak)



EdgeConnect Enterprise

New Name



Aruba SD-Branch



EdgeConnect SD-Branch



Aruba IAP/RAP



EdgeConnect Microbranch



Aruba VIA



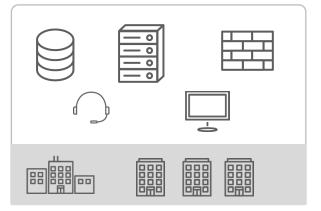
EdgeConnect Mobile



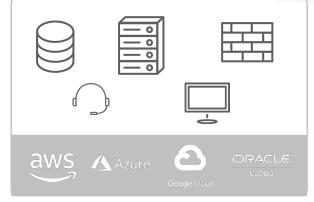


Aruba Secure Wan Edge Portfolio

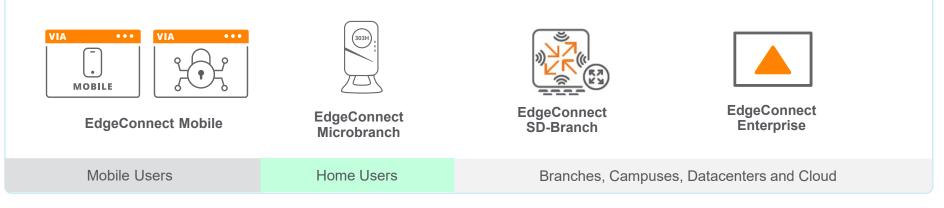




Cloud Hosted Apps and Services (laaS)

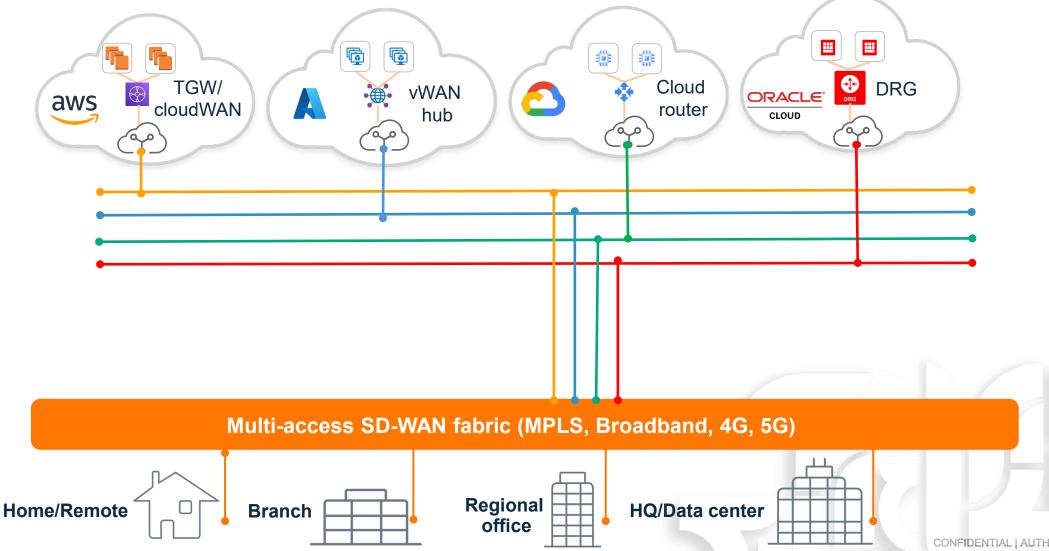






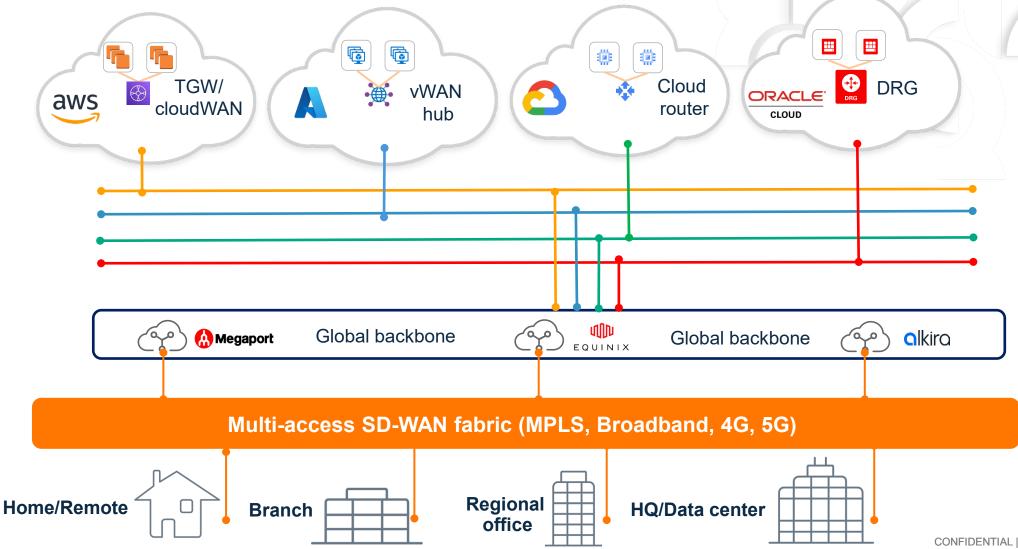
Multi-cloud networking with Aruba EdgeConnect

Flexible, secure, SD-WAN cloud connectivity - Option 1



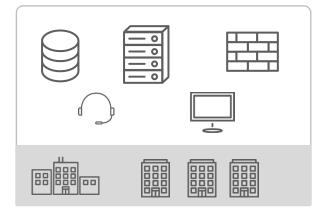
Multi-cloud networking with Aruba EdgeConnect

Flexible, secure, SD-WAN cloud connectivity - Option 2



Aruba Secure WAN Edge Portfolio

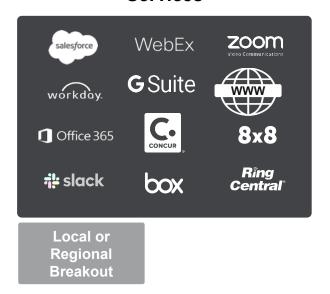
Data Center and Branch App & Services



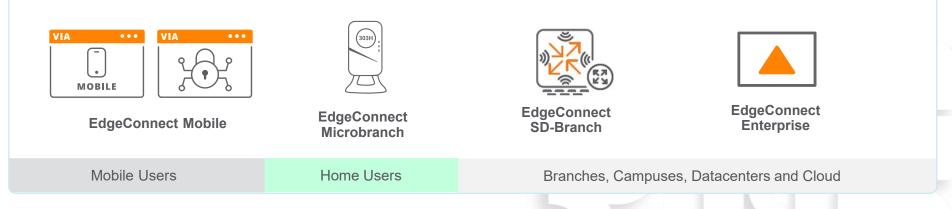
Cloud Hosted Apps and Services (laaS)



SaaS, Cloud Based Services







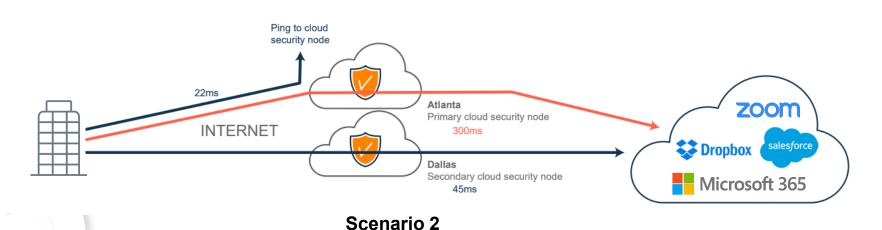
SaaS Express

Best SaaS path every time



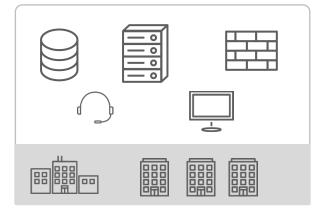


SaaS Express uses synthetic polling reinforced by actual packet observations to continuously identify the best path to reach a given SaaS application



Aruba Secure WAN Edge Portfolio

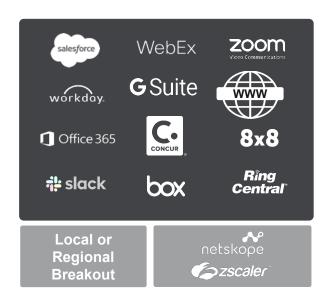
Data Center and Branch App & Services



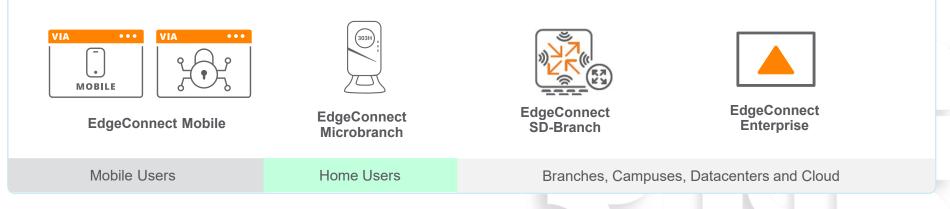
Cloud Hosted Apps and Services (laaS)



SaaS, Cloud Based Services







Orchestrated Cloud Security Integration

One-Click Cloud Security Integration

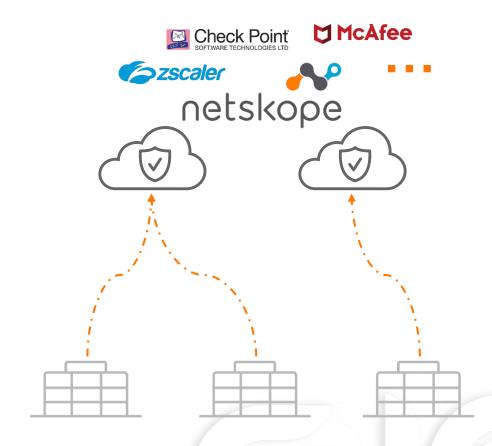
 Orchestration to create and define locations in the cloud security provider

Find the nearest Cloud Security Edge

Geo-location of nearest cloud security edge to optimize traffic path

Policy-based enforcement

Role/application-aware routing policies enable more granular integration



Reduce deployment time

 Cloud Security integration deployed from a central point. No manual overrides needed.

Optimize traffic flow

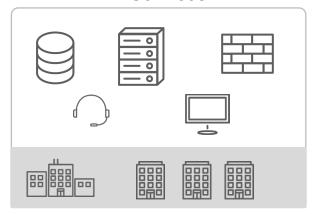
 Send traffic through the nearest node

Only send the necessary traffic

 Real-time traffic or traffic from noncritical users (guest) can selectively be routed through the local-breakout

Aruba Secure WAN Edge Portfolio

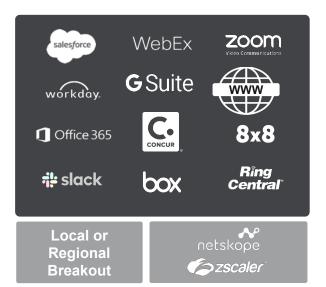
Data Center and Branch App & Services



Cloud Hosted Apps and Services (laaS)



SaaS, Cloud Based Services



Secure, Optimized, Protected SD-WAN Fabric













EdgeConnect Microbranch

EdgeConnec SD-Branch

EdgeConnect Enterprise

Mobile Users

EdgeConnect Mobile

Home Users

Branches, Campuses, Datacenters and Cloud

Unified Branch Security



App-user aware firewall



Deep packet inspection



Endpoint Profiling



Intrusion detection & prevention system





Web content & URL filtering



Zero Trust – Dynamic Segmentation



VRF – Advanced Segmentation



Threat visibility

- Threat trending over time
- Overlay with app/user launch and network direction
- Threat source and impact

Policy-driven enforcement

- Out of box IDS / IPS policies
- User defined whitelisting
- False positive management flow
- Segmentation (Dynamic & VRFs)

ICSA Secure SD-WAN Certification

Aruba EdgeConnect SD-WAN has earned ICSA Labs Secure SD-WAN certification based on a comprehensive and robust set of SD-WAN functionality and platform security requirements

- ICSA Labs Secure SD-WAN certification requirements include:
 - Advanced SD-WAN features
 - Native support (or via service chaining) for advanced security functions
 - Encryption of sensitive data
 - Network-wide policy enforcements
 - Security events logging



ICSA Labs provides third-party testing and certification of security and health IT products, as well as network-connected devices, to measure product compliance, reliability and performance.

- ✓ Simplify network architecture by replacing branch firewalls with Aruba EdgeConnect Enterprise
- ✓ Use a secure SD-WAN solution certified by a recognized global, third-party organization

EdgeConnect Secure WAN Edge

Right-sized based upon use case and location



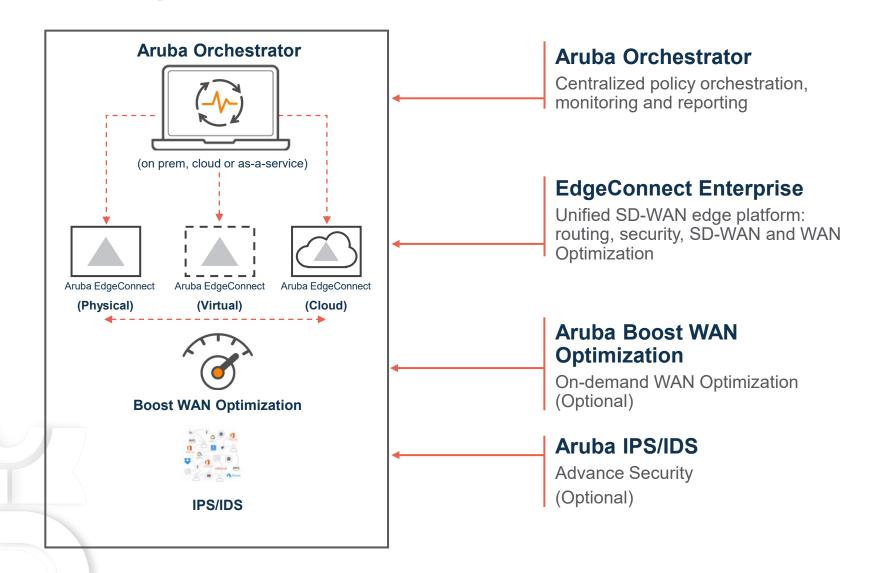
EdgeConnect Enterprise

- Advanced SD-WAN with Business Intent Overlays
- Max network and app performance





EdgeConnect Enterprise - Architecture



Aruba Orchestrator















Type

Single Tenant

Or

Global Enterprise (Multi-Tenant)

Small

Up to 50 Appliances

Medium

Up to 200 Appliances

Large

More than 200 Appliances

Region **United States** Frankfurt

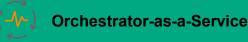
Term

1 Year

2 Years

3 Years

4 Years 5 Years



On-Premise, Private Cloud, laaS

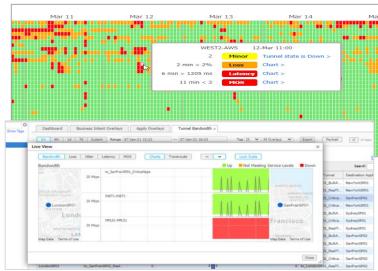
Orchestrator license is included with EdgeConnect subscription. No SKU required for on-premises Orchestrator. OR

Orchestrator As-a-Service

Fully hosted by Aruba as-a-service. Single tenant is the most frequently used.

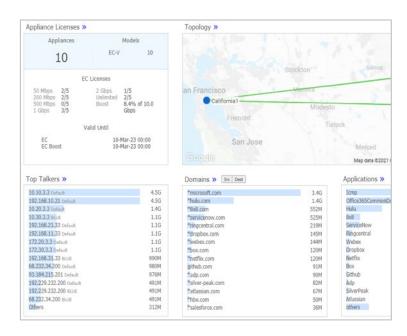
Automation with Application/Network Visibility

Real-time Health Map



 Network health is visualized in realtime and correlated across all locations. Alarms, network health and configuration issues are all easily diagnosed

Dashboard



 Comprehensive dashboard highlights key network and application attributes, and places focus on critical issues

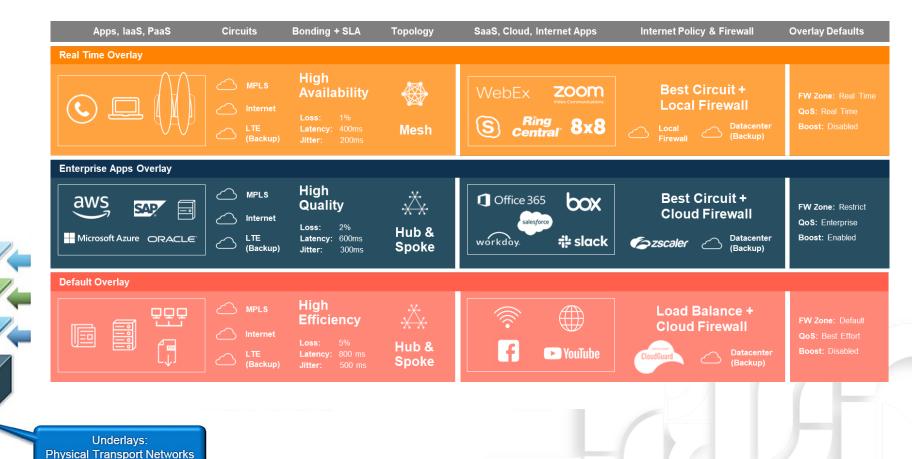
Connection Level Visibility

Application	Proto	Se	IP1	Port1	IP2	Port2	Inbound Bytes ▼	Outbound Bytes	St	Int
ulu	tcp	D	192.168.11	39020	www.hulu	443	2.8M	65K	15	ThirdParty_Zsca
ulu	tcp	D	192.168.11	38872	www.hulu	443	2.6M	50K	15	ThirdParty_Zsca
ılu	tcp	D	192.168.11	35272	www.hulu	443	2.1M	47K	15	ThirdParty_Zsca
ulu	tcp	D	192.168.11	35374	www.hulu	443	1.6M	26K	15	ThirdParty_Zsca
ılu	tcp	D	192.168.11	34984	www.hulu	443	1.214	20K	15	ThirdParty_Zsca
ulu	tcp	D	192.168.11	35766	www.hulu	443	806K	17K	15	ThirdParty_Zsca
ulu	tcp	D	192.168.11	49716	www.hulu	443	358K	10K	15	ThirdParty_Zsca
ulu	tcp	D	192.168.11	49822	www.hulu	443	178K	6K	15	ThirdParty_Zsca
ople	tcp	D	192.168.11	54962	www.apple	443	75K	4K	15	ThirdParty_Zsca
loud	tcp	D	192.168.11	58374	www.icloud_	443	58K	3K	15	ThirdParty_Zsca
etflix	tcp	D	192.168.11	36184	www.netfi	443	56K	3K	15	ThirdParty_Zsca
ootify	tcp	D	192.168.11	43286	www.spotif	443	49K	3K	15	ThirdParty_Zsca
cebook	tcp	D	192.168.11	40564	www.faceb	443	40K	3K	15	ThirdParty_Zsca
rypeForBusine	tcp	D	192.168.11	33354	www.skype	443	8K	2K	15	ThirdParty_Zsca
oncursolutions	tcp	D	192.168.11	35682	www.concu	443	7K	SK	15	ThirdParty_Zsca
bo	tcp	D	192.168.11	44272	www.hbo.c	443	7K	2K	15	ThirdParty_Zsca
ffice365Comm	tcp	В	192.168.31	50500	www.micro	443	5K	1K	15	Passthrough_LT
cypeForBusine	tcp	D	192.168.11	33288	skype.com	443	5K	3K	15	ThirdParty_Zsca
ootp-dhcp	udp	D	172.30.0.20	68	172.30.0.1	67	4K	6K	15	Passthrough_Mi
ootp-dhcp	udp	D	172.20.0.1	67	172.20.0.10	68	4K	0	15	pass-through

 Flow level statistics give total visibility into every connection on the network providing total visibility and control of applications and users

Business Driven SD-WAN Policies

Business Intent Overlays (BIOs) are logical networks that are individually customized to your applications and requirements within your network





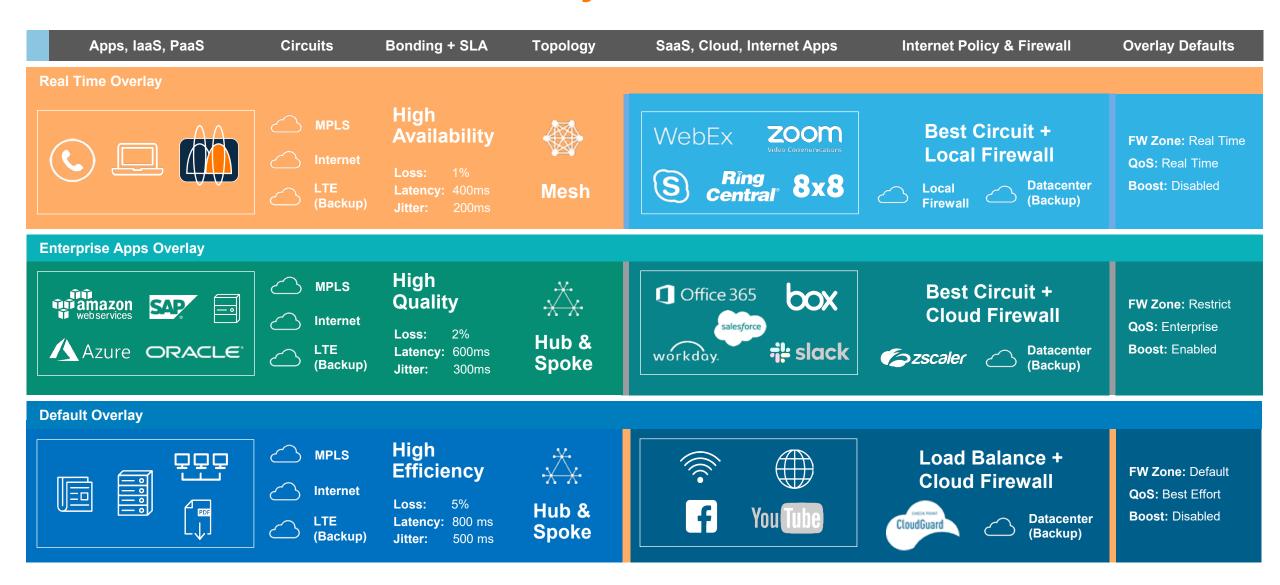
Guest Wi-Fi

Enterprise

Applications

Transport

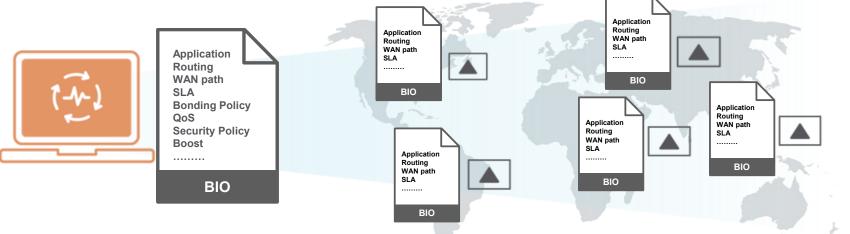
Business Driven SD-WAN Policy's





A Completely Automated Approach

Standardize, Templatize & Automate Provisioning





Create Business Intent Overlay (BIO)

Aruba Orchestrator

Push and Maintain Policies Globally

Continuously
Monitored and
Updated



Best Performance Over any Condition

Provides private-line-like performance over the public Internet

WAN Link bonding

- Packet-based load sharing
- Constant monitoring
- Zero second failover

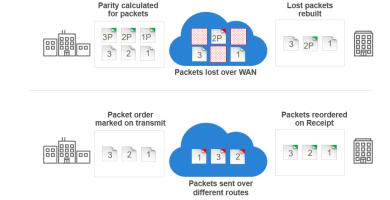
Path conditioning

- **FEC** (Advanced packet loss correction)
- **POC** (Packet order correction)

WAN Opt (Boost)

- TCP Acceleration
- Data Reduction



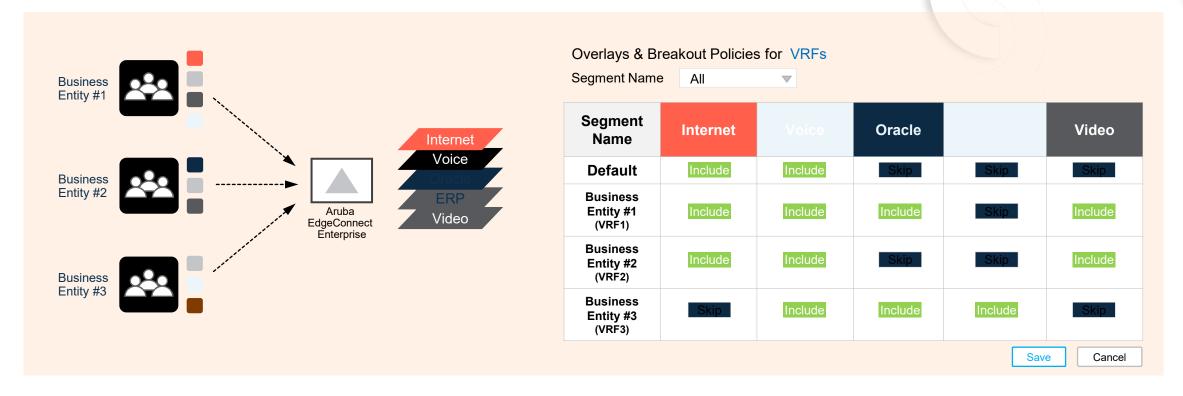






Advanced Segmentation

- Establish granular policies across the network; reduce attack surface
- Configure microsegments: separate business entities share the same applications and WAN infrastructure
- Eliminate overlapping IP address conflicts no service disruptions





EdgeConnect Enterprise – Out of the box

Ready for use after installation. Only a few adjustments needed. Only customer specific details needed. Standard applications are already there, mapped according to many years of experience.

Simple to manage, no advanced skills to add/change policy's, just drag and drop. Reduced OPEX

Visibility, all information in one place. All flows in the fabric can be seen in real time. Built in reports.

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Thank you!

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EdgeConnect Enterprise DEMO

EdgeConnect Demo Topology

