Juniper's Secure SD-WAN

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JUNIPER NETWORKS | Engineering Simplicity

TRENDS DRIVING THE ENTERPRISE

Experience

Loyalty is harder to achieve

Cloud first

Apps critical to business

Analytics & Insights

Drive security and optimization

It matters to everyone   Alternative consumption models   Reducing costs and risks

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Beyond SD-WAN, the demise of the Intranet

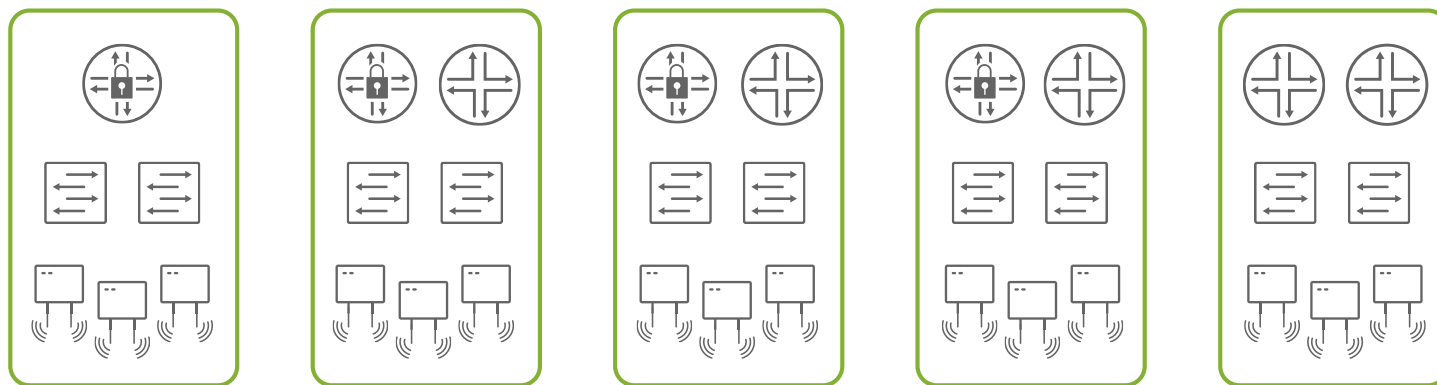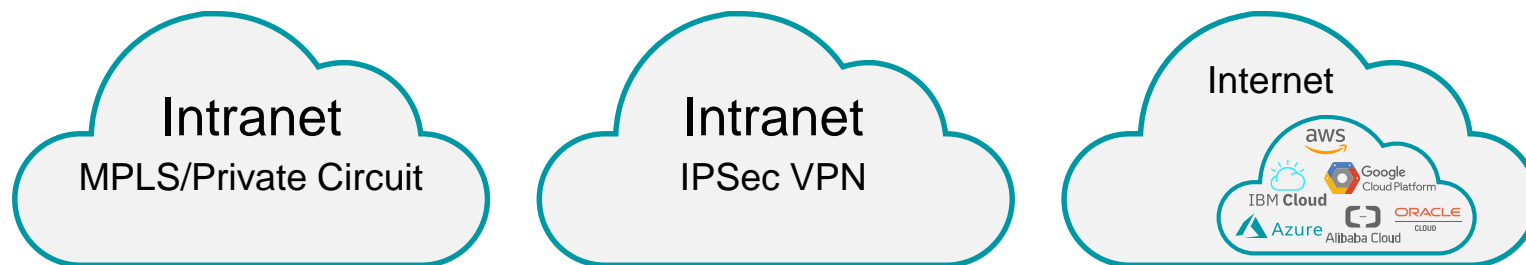**Over time private WAN diminishes**

- SaaS first strategies
- Born in the cloud companies
- Retail and sales offices

Security services move to cloud

- Always up to date
- Bandwidth savings
- Lower latency

Cloud management a necessity

- ZTP
- Controller centric (SDN)
- Simplified operations
- ML/AI

	WAN	Hybrid WAN	SD-WAN 1.0	SD-WAN 2.0	No-Intranet
Intranet (Private - MPLS)	100%	50%	20%		
Intranet (Public - IPSec)		50%	60%	20%	
Internet			20%	80%	100%

Juniper Business Use Only

WHAT IS SD-WAN?

Basic SD-WAN Operation
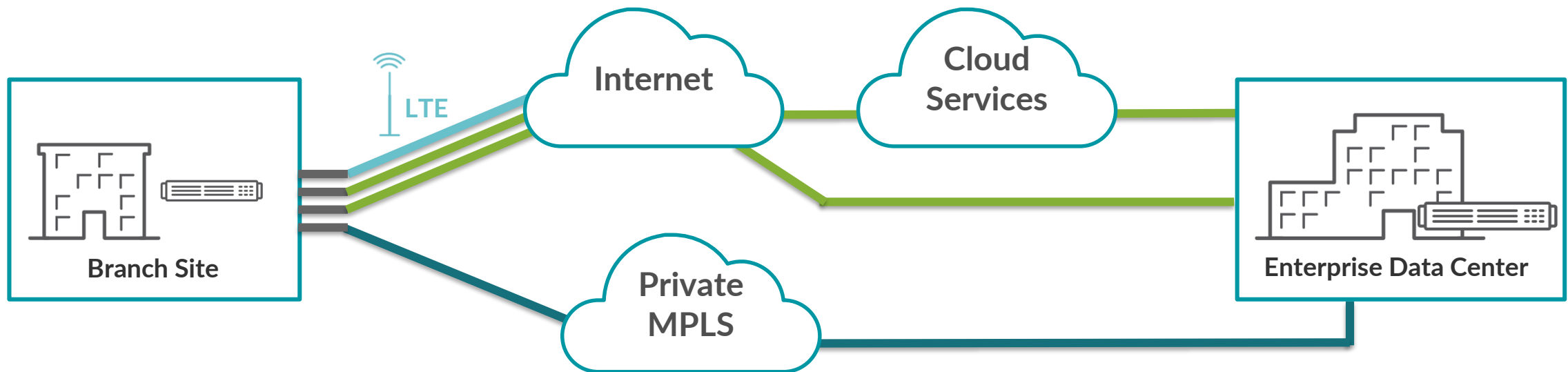
- Hybrid link types: IP VPN (MPLS), broadband Internet, LTE
- Dynamic traffic distribution over links, central routing policies
- Simple, centralized management: ZTP, policies, SLAs
- Tightly integrated security

SD-WAN Deployment Options
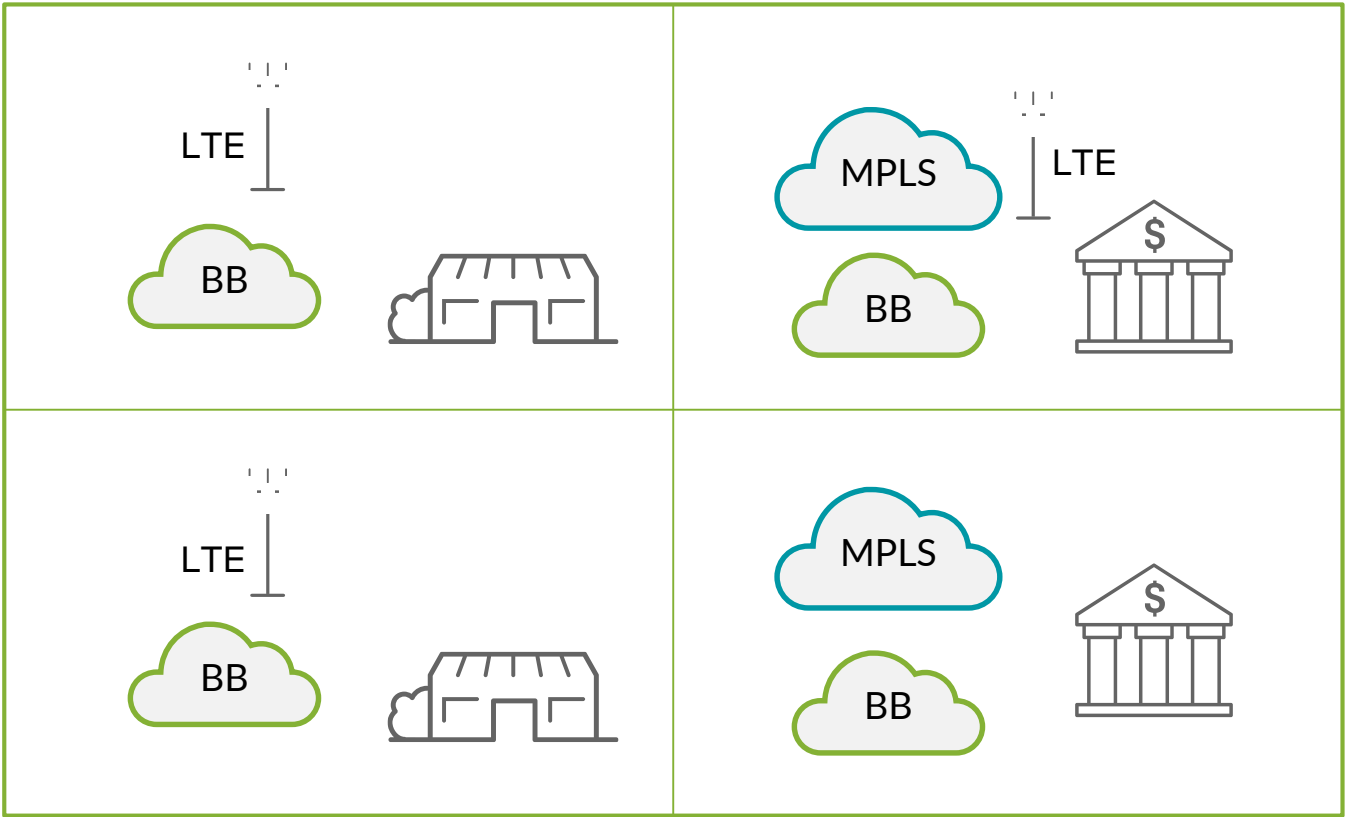
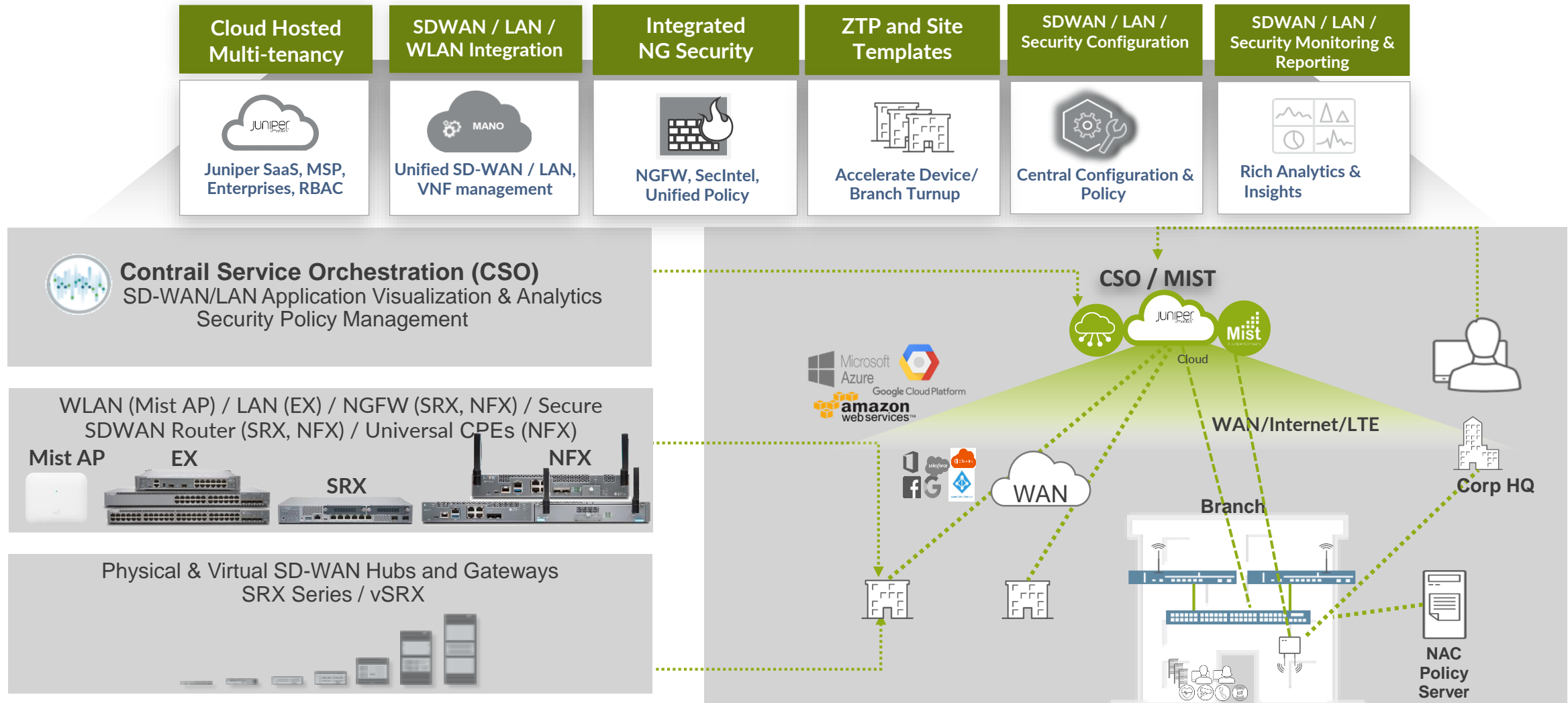As broadband becomes cheaper, faster and more robust will the combination of:

Fast wired Internet combined with 5G dominate for the majority of locations?
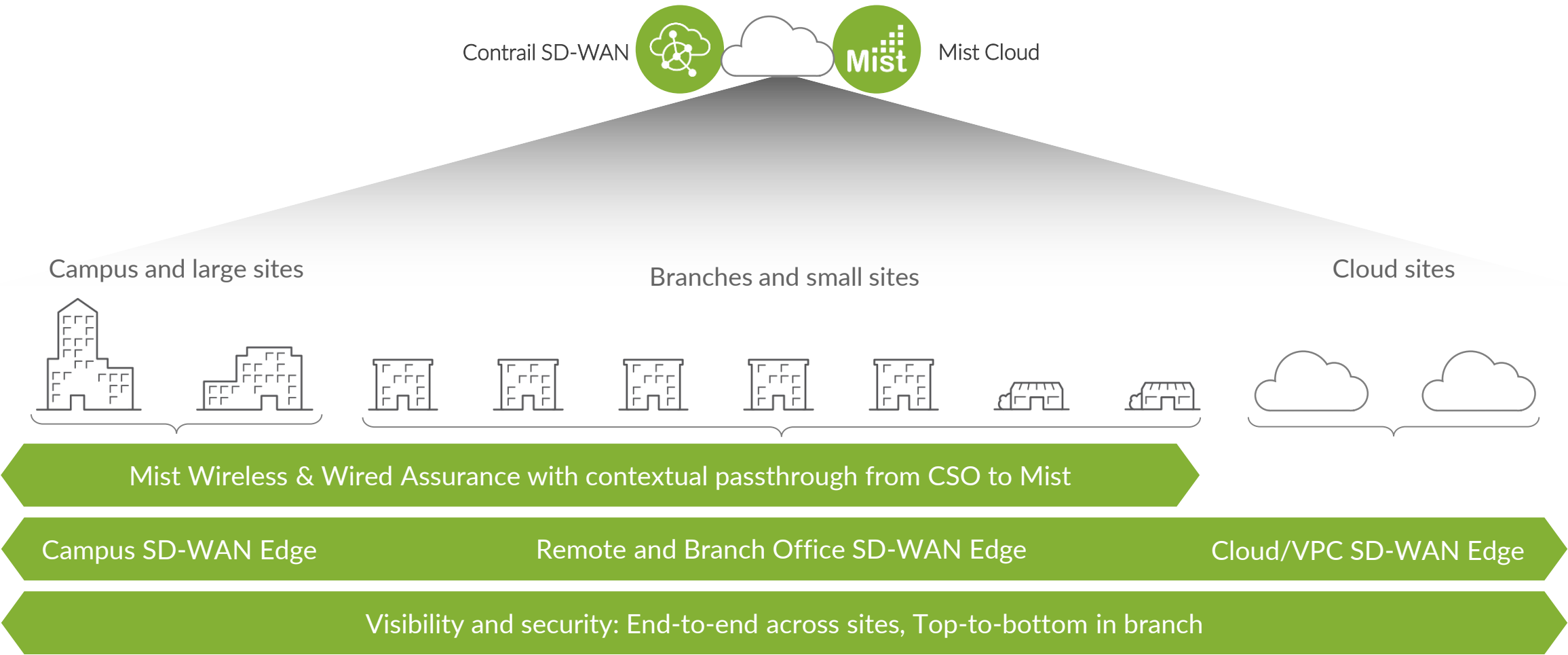
Cloud management

ZTP

AI for operations become the key attributes

SECURE SD-WAN OVERVIEW

Cloud Hosted Multi-tenancy	SDWAN / LAN / WLAN Integration	Integrated NG Security	ZTP and Site Templates	SDWAN / LAN / Security Configuration	SDWAN / LAN / Security Monitoring & Reporting
Juniper SaaS, MSP, Enterprises, RBAC	Unified SD-WAN / LAN, VNF management	NGFW, SecIntel, Unified Policy	Accelerate Device/ Branch Turnup	Central Configuration & Policy	Rich Analytics & Insights

Contrail Service Orchestration (CSO)
SD-WAN/LAN Application Visualization & Analytics
Security Policy Management

CSO / MIST

Cloud

WLAN (Mist AP) / LAN (EX) / NGFW (SRX, NFX) / Secure SDWAN Router (SRX, NFX) / Universal CPEs (NFX)

Mist AP   EX   SRX   NFX

Microsoft Azure
Google Cloud Platform
amazon webservices™

WAN

WAN/Internet/LTE

Corp HQ

Branch

Physical & Virtual SD-WAN Hubs and Gateways
SRX Series / vSRX

NAC Policy Server

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JUNIPER SD-WAN
SOFTWARE DEFINED CAPABILITY EXPANDS BEYOND THE WAN

Contrail SD-WAN

Mist Cloud

Campus and large sites

Branches and small sites

Cloud sites

Mist Wireless & Wired Assurance with contextual passthrough from CSO to Mist

Campus SD-WAN Edge

Remote and Branch Office SD-WAN Edge

Cloud/VPC SD-WAN Edge

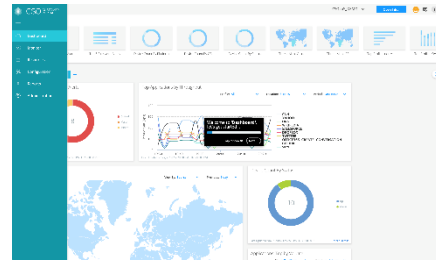Visibility and security: End-to-end across sites, Top-to-bottom in branch

JUNIPER SD-WAN - BENEFITS

Improvement in application performance

Faster cycle to develop and deliver applications

Application Performance and Innovation

Intent-driven workflows for applications & security

Simple and intuitive web UI

True Multi-Tenancy

Four Levels of RBAC

100% API Driven

Easy to White label
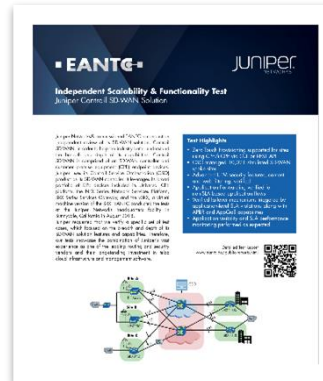
MSP/Large Enterprises Love It

Beyond basic security

NGFW
ATP
- SecIntel in WAN, LAN & Firewall
- Sandboxing (ML)

Consistently Managed/Reduced Risk

EANTC tested and reported to 10,000 endpoints

Carrier Class Scale and performance

Cloud-managed

On-premises

Managed service via partners

3 Consumption options

REFERENCE CUSTOMERS & PARTNER PROVIDERS

MSP & System Integrators

vodafone
- Vodafone VPN+
- Announced September 2018

Forsythes TECHNOLOGY
- Network infrastructure and services provider

IBM
- Global premier system integrator

epsilon
- Network services provider

Customers

ALLIED PINNACLE
- Major Australian bakery
- 20 sites

- Agile software company
- Major federal projects

- Major European airline
- 250+ fleet

- Digital printing services
- 90k+ employees

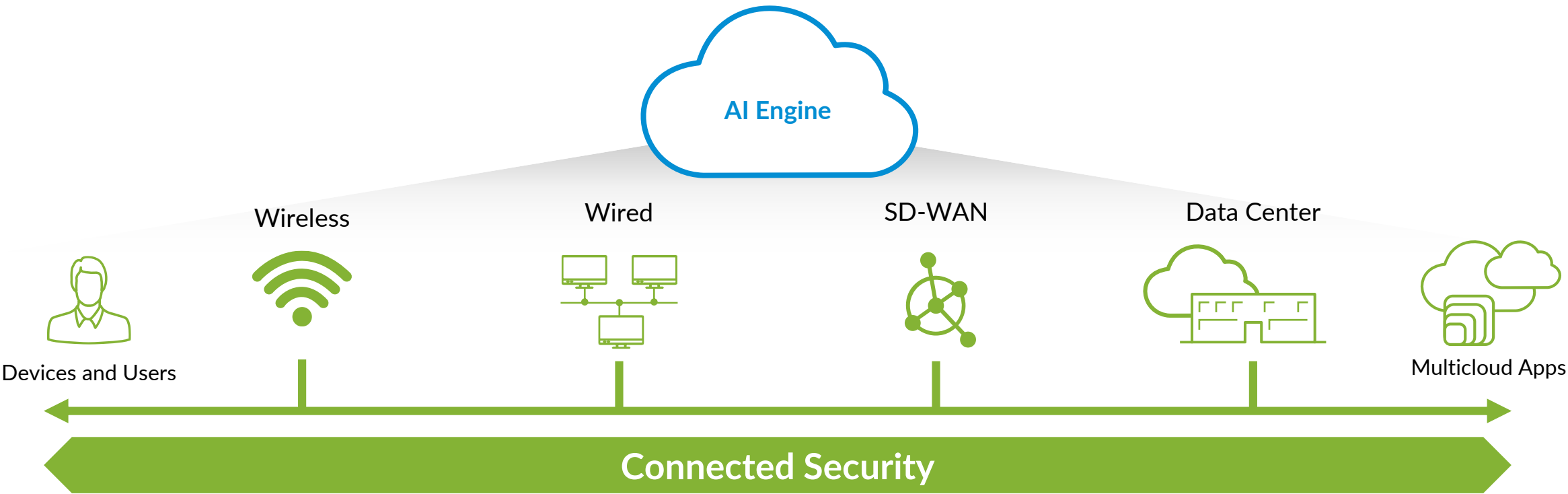- Asian convenience stores
- 900+ stores

- Middle Eastern Government

- Global financial
- 60k+ employees

Our AI Driven Enterprise Mission

AI Engine

Wireless   Wired   SD-WAN   Data Center

Devices and Users   Multicloud Apps

Connected Security

Our Mission:

We believe that Juniper-Mist is leading a new era of IT that uses AI to save time and money, deliver unprecedented scale and provide unparalleled user experiences.

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