SD-WAN 2019

Marie Skouenborg

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Application based routing   Multipath routing   Quality of Experience

Centralized orchestration   Visibility and Analytics   Automation
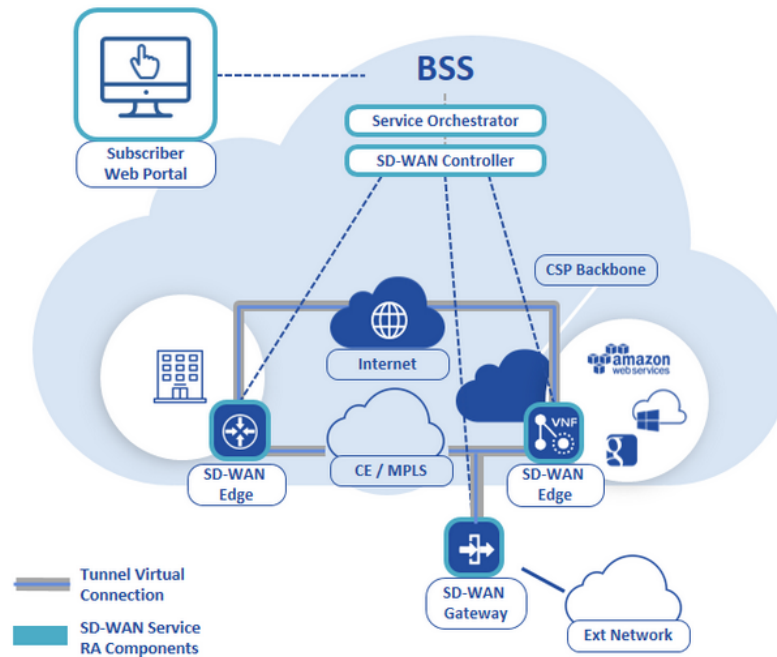
Encrypted tunneling   Access independent   ZeroTouchDeployment

Security   Reduce # HW on site   Cloud integration

SD-WAN Service Components

SD-WAN Edge
Physical or virtual

SD-WAN Gateway
Between SD-WAN and external connectivity services

SD-WAN Controller
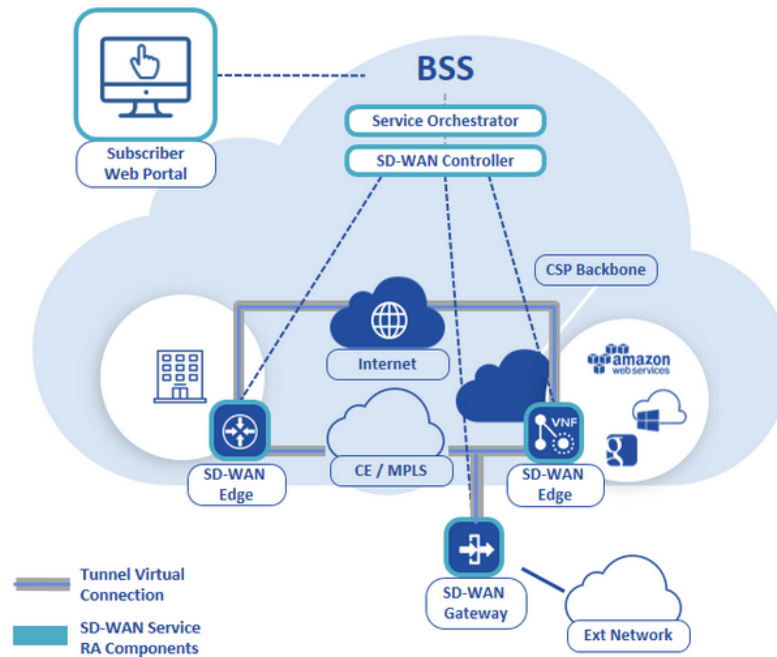Centralized management of SD-WAN edges & gateways

Service Orchestrator
Lifecycle Service Orchestration of SD-WAN and other services

Subscriber Web Portal
Subscriber service ordering and modification

https://www.mef.net/mef-3-0-sd-wan

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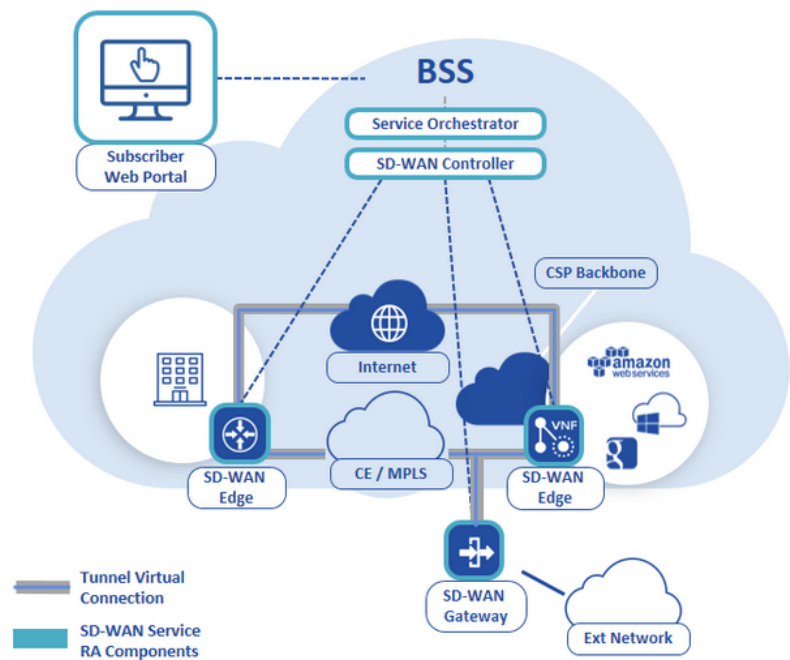Centralized management of SD-WAN edges & gateways

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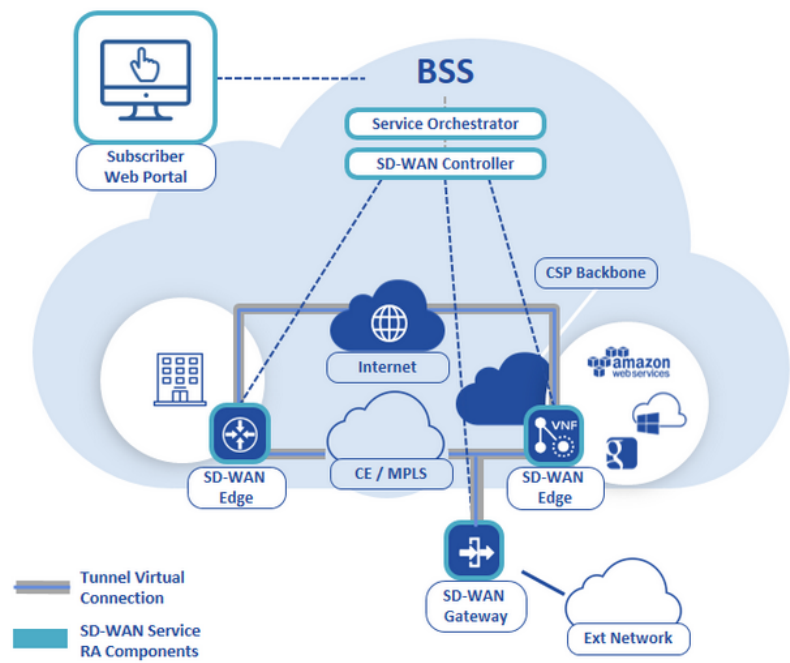Centralized management of SD-WAN edges & gateways

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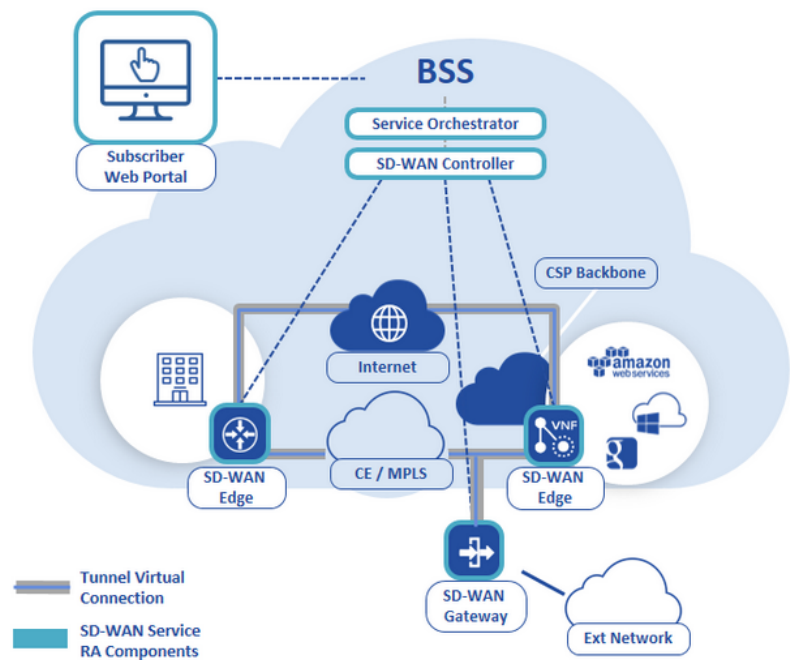
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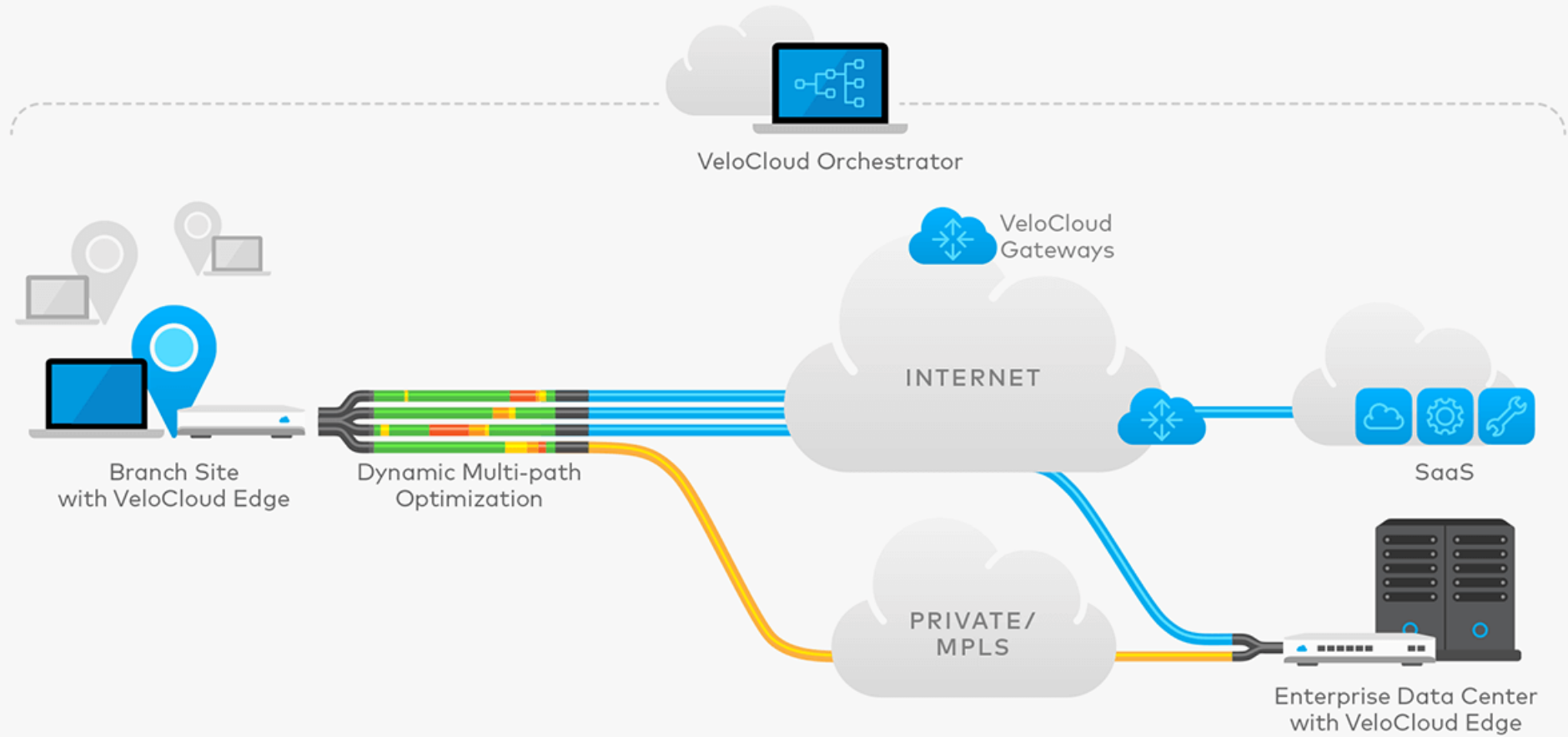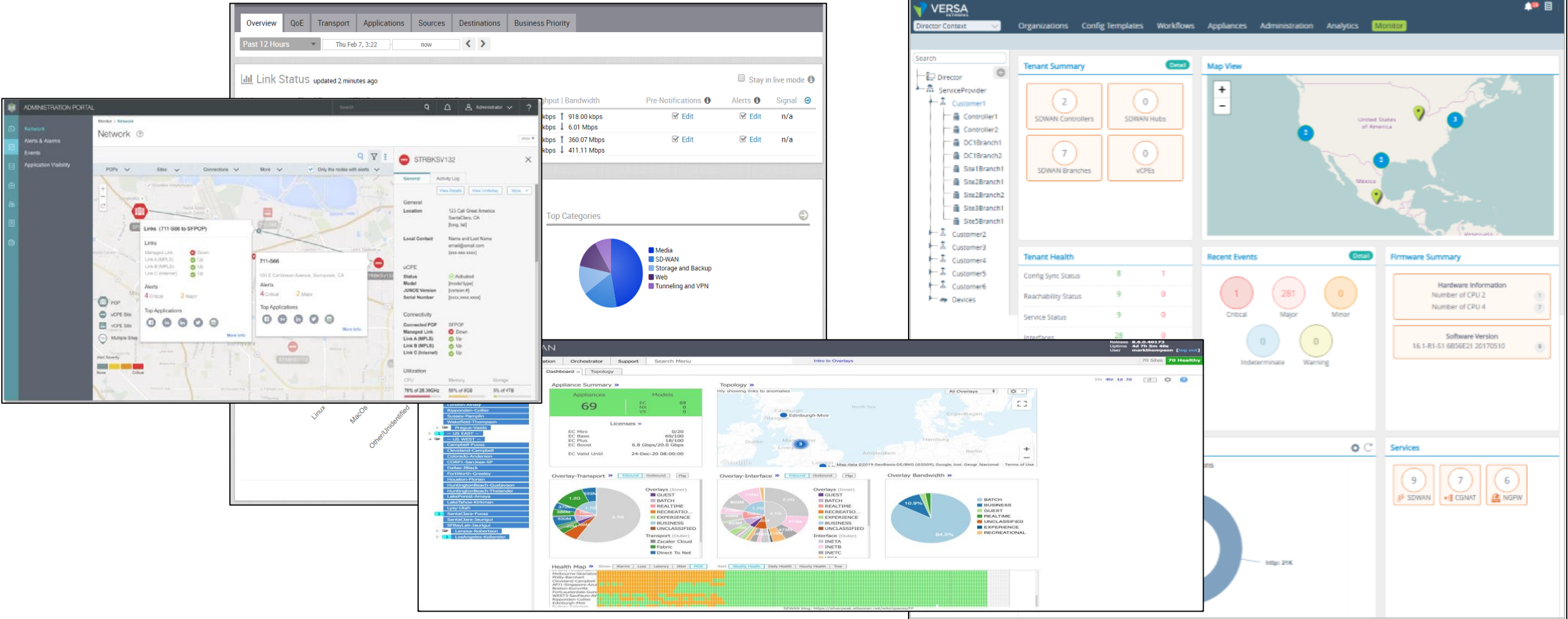Subscriber service ordering and modification

\+ Underlay

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Application Based Routing and QoExperience

Application Based Routing and QoExperience

… and then add a pinch of portal and telemetry

What to consider
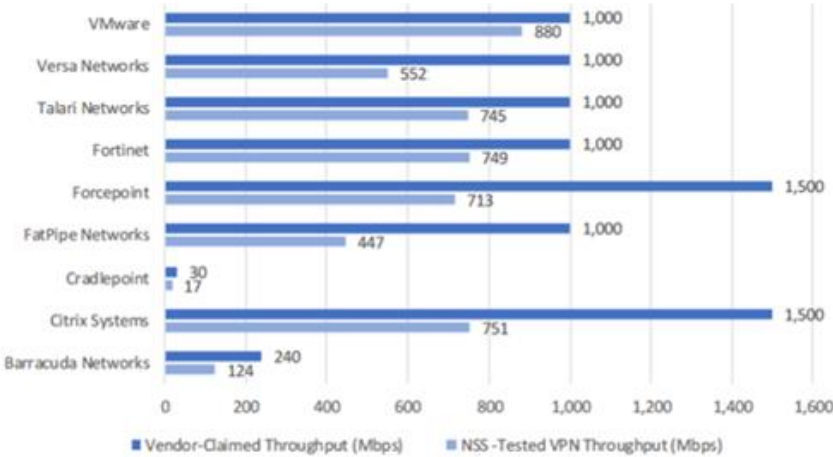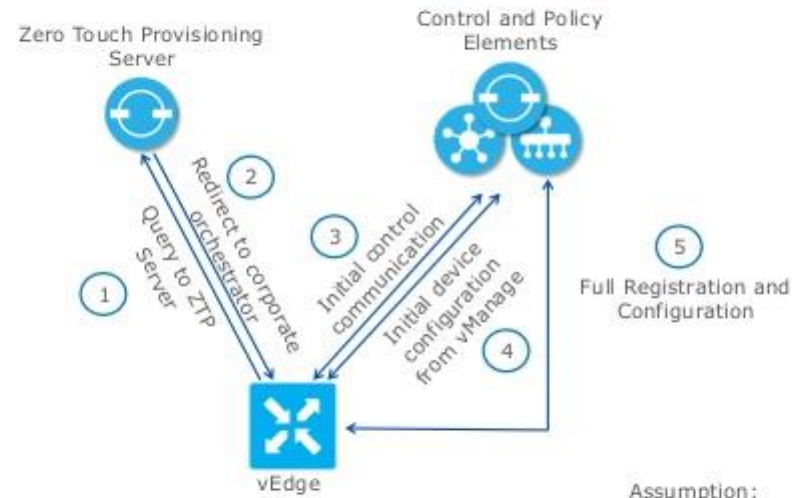
Not all Software Defined

Figure 2 – Vendor-Claimed Throughput vs. NSS-Tested Throughput (Mbps)

Vendor	Vendor-Claimed Throughput (Mbps)	NSS-Tested VPN Throughput (Mbps)
VMware	1,000	880
Versa Networks	1,000	552
Talari Networks	1,000	745
Fortinet	1,000	749
Forcepoint	1,500	713
FatPipe Networks	1,000	447
Cradlepoint	30	17
Citrix Systems	1,500	751
Barracuda Networks	240	124

NSS Labs SD-WAN Comparative Report 2018

Zero Touch Provisioning vEdge Walk-through

Further reading

https://www.sdxcentral.com/

https://www.mef.net/mef-3-0-sd-wan