

An aerial night view of a city skyline, likely Shanghai, with numerous skyscrapers illuminated. Overlaid on the image are several glowing blue arcs and dots, representing a network or data flow. The text "AT&T EDGE SOLUTIONS" is centered in the lower half of the image.

AT&T EDGE SOLUTIONS

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What is SD-WAN?

Transport agnostic



Central management

Dynamic path
selection



Secure VPN
and Internet offload

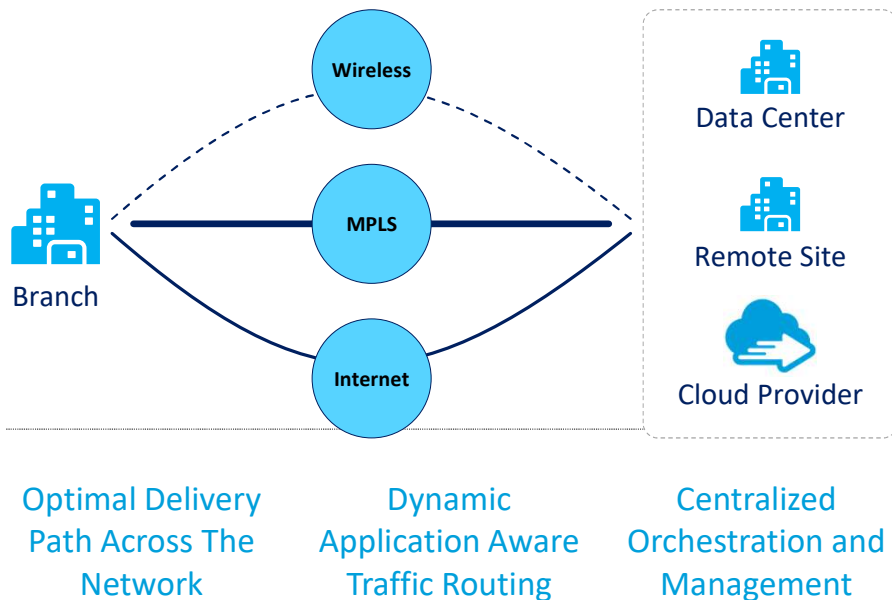
The AT&T solution brings:

- ✓ Per-site choice
- ✓ Virtualization
- ✓ Future-proof network with MPLS
- ✓ Elegant Migration Path
(Network Based)

SD-WAN Defined

WHAT is SD-WAN?

Software-Defined Wide Area Networking (SD-WAN) allows companies to build high-performance WANs using private networks, broadband internet links and wireless while balancing performance with cost.



Accepted Industry Definition of SD-WAN



WAN Transport Agnostic

Public, Private and Wired, Wireless – Aware of Each Characteristic



Dynamic Path Selection

Policy and Application Based Routing based on Business Intent and WAN Link Performance.



Central Management and Orchestration

Central Control, Configuration, Monitoring and Reporting of WAN Network Functions across all Sites and Cloud Services



Secure VPN with Internet Offload

Securely Connect Sites while delivering secure direct connectivity to the Internet for Cloud Access to Critical Business Applications

SD-WAN OTT Solution Components

NSX SD-WAN Edge



- Virtual Edge
- Hardware fulfilled by VeloCloud or AT&T
- Flexibility in Deployment
 - Purpose-built hardware
 - Virtual Edge for cloud or white box
 - Services platform for VNF
- For branch, datacenter and cloud

NSX SD-WAN Orchestrator



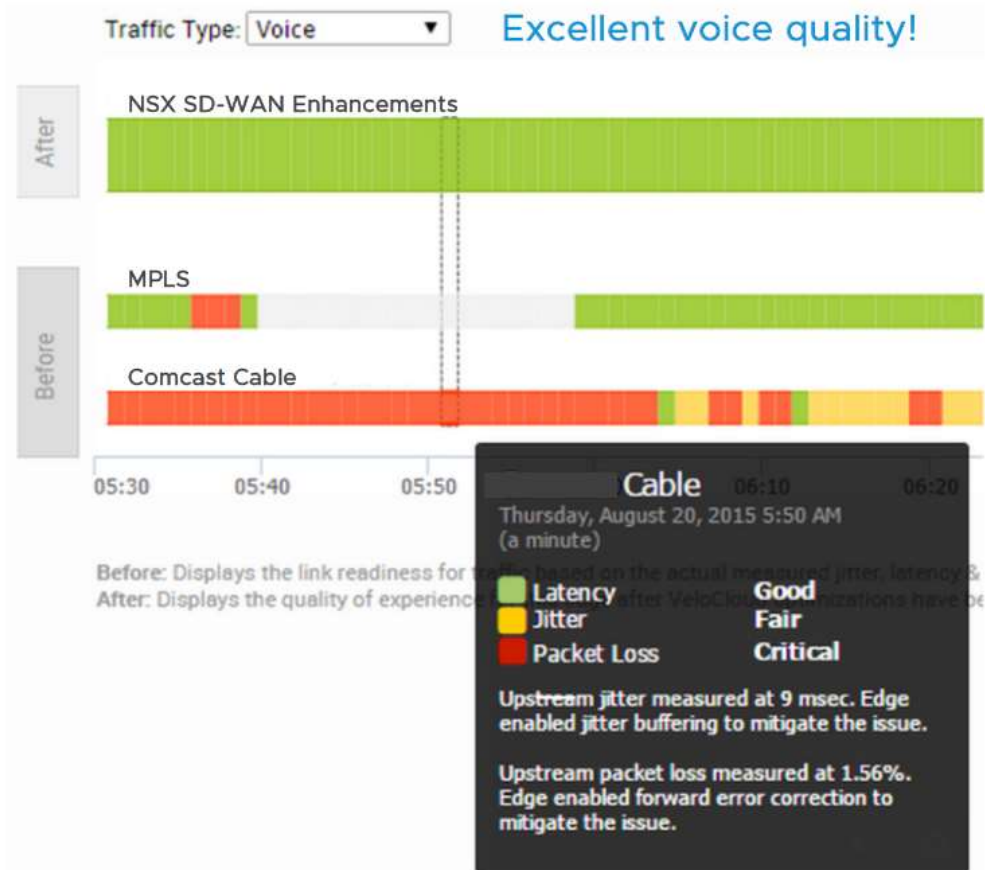
- Multi or Single tenant cloud-based management, configuration & monitoring portal
- NSX SD-WAN Service hosted, and on-premises at enterprise
- Business policy abstraction
- ReST API based
- Enables fast deployment, zero-touch operations

NSX SD-WAN Gateways



- Optimized cloud on-ramp to the doorstep of SaaS & IaaS
- Fully managed and operated by VMware and SPs
- Multi or Single tenant
- Strategic world-wide locations, top-tier network PoPs

SD-WAN OTT VeloCloud Dynamic Multi-Path Optimization



Continuous Link Monitoring

- Drives automation and optimization

Dynamic Per Packet Steering

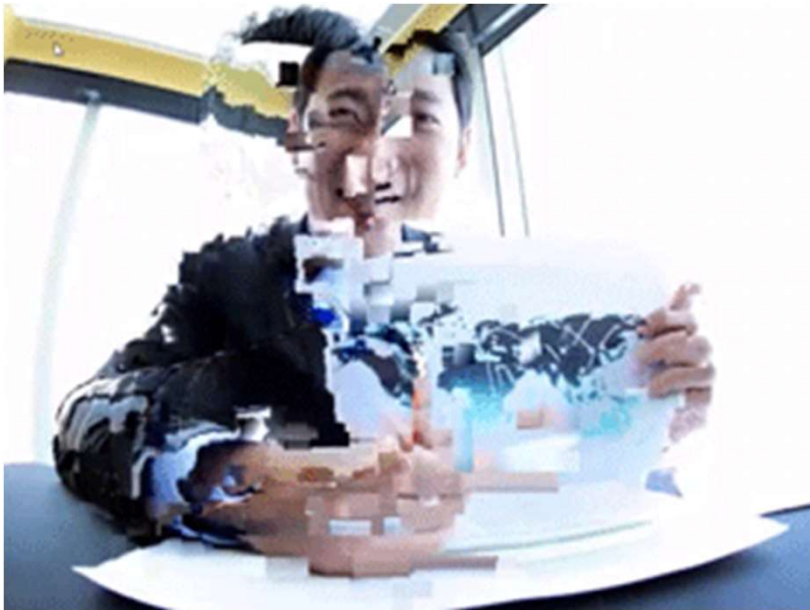
- Sub-second steering without session drops
- Aggregated bandwidth for single flows

On Demand Remediation

- Protects against concurrent degradation
- Enables single link performance

Maintaining QoE – Unified Communication Services

Video conference over a WAN link with 2% packet loss



Without Velocloud SD-WAN



With Velocloud SD-WAN

AT&T Remote Monitoring & Management

Delivering above industry average, in-house, NOC Remote Resolution for superior availability

End-Customer Environment

RMM Operations NOC and Service Desk

Resolver Groups



Monitoring

State of Health Capacity/Performance Configuration Change

Support

Fault Resolution OEM L3 Escalation Field Provider Engagement

Management

Updates & Patches Simple Changes Complex Changes



2020 Gartner Magic Quadrant for WAN Edge

Figure 1. Magic Quadrant for WAN Edge Infrastructure



Source: Gartner (September 2020)

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Recognized as a leader by industry analysts

Gartner

Magic Quadrant

Global Network Services Leader



MarketSense

SD-WAN Managed Services Leader



Leaderboard

SD-WAN Managed Services Leader

F R O S T & S U L L I V A N

Radar

SD-WAN Services Market Leader



Special Awards

Best SD-WAN Managed Service, Network-Based
Best SD-WAN Managed Service, OTT

