Arista Enterprise WAN

Enterprise WAN Routing Solutions

Enterprise WAN architectures have evolved. Traditional solutions included classic WAN routers designed in the early 1990s as customer branch or carrier-edge "CE" solutions, and various provider-edge or "PE" solutions that tied customers to single carriers and traditional WAN routing services.

Gradual movements of customer WANs to be more agile and flexible, and to open the available connectivity to more choices than those provided by a single carrier, have resulted in a collection of proprietary solution stacks that include software-defined WAN (SD-WAN), a virtual private network (VPN), cloud-connected and carrier-neutral WAN transit hubs (i.e., in AWS, GCP, Azure), and associated security perimeter approaches (SES/SASE).

Over the last decade, many solutions positioned as Software-Defined Wide Area Networks (SD-WANs) have emerged from independent startup companies. As a set of features and technologies, SD-WAN delivered valuable capabilities for users and operators; however, these first-generation implementations were often proprietary, had excessive vendor lock-in, or weren't ready for the diverse requirements of the modern enterprise.

Characteristics common to most alternative WAN solutions, including SD-WAN, include the following attributes.

Campus, branch, and edge connectivity with edge-to-edge overlays independent of underlying transport network architectures

- Business broadband and MPLS compatibility and ability to use LTE/5G for backup
- Deployed, managed, and orchestrated via central cloud-based service
- Integrated with edge security solutions to prevent threat surface at network edge
- Adaptive to changing performance and availability

With over two-dozen companies now offering SD-WAN solutions, and considering the slow but consistent overtaking of traditional enterprise WAN with more cost-effective and agile technologies, the next-generation WAN market is entering a transitional phase. Enterprises are reconsidering both tactical and long-term strategies for WAN infrastructure and are less likely to deploy proprietary, short-lived, and point solutions to address their WAN needs.

Plethora of Alternative WAN Offerings

Presently, every mainstream enterprise network equipment and service provider offers at least one choice of SD-WAN solution alongside traditional routed WAN portfolios. Technologies that migrated from the domain of early startups into the mainstream networking landscape through acquisitions retained most of the proprietary architectures and non-mainstream platform choices from their original inception.

The other inherent challenge is that existing WAN networks, based on traditional federated routing protocols and usually manually configured via the CLI, are still the most predominant type of system in enterprise and carrier markets. The evolution of SD-WAN as a specific product category has often resulted in systems with limited interoperability that are often designed to create single-vendor lock-in through proprietary features

As a result, SD-WAN portfolios do not interoperate, are expensive to deploy, and have short product life cycles. These SD-WAN solutions create technical debt for the enterprise as they require continuous investment in training, maintenance, and support of their unique and proprietary stacks. For carriers, these proprietary systems reduce the opportunity to add value for their customers.

Transitioning from these proprietary solutions to a universal standards-based solution that is supported by an established enterprise networking provider proves nearly impossible. Many customers that deployed these early alternative WAN solutions feel locked in.

These factors have limited the life-cycle expectations, growth prospects, and application scopes of first-generation SD-WAN solutions, and have led to a call for unified, mainstream, and standards-based solutions supported within leading enterprise networking providers' portfolios.

Why a Change is Needed

There is an immediate need to take the benefits offered by alternative WAN solutions and deliver them in a standards-based unified network architecture that can establish the baseline for future WAN, campus, and data center needs in the large enterprise networks and escape the penalties of the proprietary SD-WAN offerings.

Arista believes that these features and capabilities do not require proprietary vendor lock-in and can be delivered as part of a routed WAN system that gives customers choice, a viable transition plan, and a better systems architecture while delivering consistent operational experience across the data center, cloud, campus, and the Routed WAN.

Let's look at how a leading large service provider, currently reselling several independent vendor-sourced SD-WAN products as part of their portfolio, summarizes in Table 1 (below) the benefits of the various SD-WAN offerings.

Table 1. Common Benefits of SD-WANs
Agility and Flexibility: Quickly adapt to your changing business needs with flexible hybrid WAN designs to fit your needs, site-by-site.
Dynamic Routing: Application-aware intelligent routing recognizes traffic that can be sent directly over Internet links for optimal delivery of your business applications.
Transport Agnostic: Virtual Seamless integration with your existing network configuration, providing connectivity over any transport type (e.g., MPLS, Internet broadband, LTE).
Application Performance: Optimizes your application's performance over hybrid or Internet links with direct, highly secure access to enterprise and cloud applications.
Centralized Management: Visibility into your network and applications performance, giving you more control.
Zero-touch Provisioning: Devices are provisioned and configured automatically, simplifying deployment by reducing the time and complexity of installation.
Network Security: Provides a level of security by encrypting and tunneling traffic to your data, with the ability to layer additional firewalls, and cloud security options to create an integrated solution.
Control Costs: Gain better control over costs and capital expenditures, while integrating cost-effective, scalable connectivity options such as broadband and Internet into your network.
Source: https://www.business.att.com/products/sd-wan.html © 2023 AT&T Intellectual Property. All rights reserved. AT&T does not, by this reference, endorse any opinions or facts put forth in this paper by Arista Networks.

Clearly, if we address these requirements with a standards-based, extensible, and mainstream solution we can improve the outcomes for IT professionals, increase profitability and decrease friction for network carriers, open new opportunities to benefit from public clouds, and deliver significant reductions in OPEX and CAPEX for everyone through lower life-cycle costs and reduced onboarding complexities.

Arista's WAN Routing System

To address these requirements, Arista has released an innovative product line expansion and solution architecture -- the Arista WAN Routing System[1] with the Arista CloudVision Pathfinder Service[2] - built using proven Arista Extensible Operating System (EOS®) and CloudVision® software.

Arista EOS at the core of the differentiated WAN architecture is a ground-breaking foundation that meets the complex cloud-scale requirements of high availability, high scale, and programmability. Network alternatives have failed to develop towards these crucial concepts, or have recognized it as an afterthought and continue to play catch-up.

Applied to this is a modern network-as-code approach, and driven by all of Arista's leading-edge solutions, is the Arista Continuous Integration (CI) Pipeline[3]. Built on Arista's CloudVision and EOS state management architecture and Network Data Lake (NetDL™). The Arista CI Pipeline helps enterprise customers adopt a modern network operating model. This approach delivers an agile, data-driven change management process for the network, enabling faster, more reliable deployment with reduced operational time and expense.

Collectively this approach provides a modern WAN architecture aligned with Arista's Cloud Networking innovations in the enterprise data center, campus, and cloud. By working with one network operating system, one operation, administration, maintenance, and provisioning framework (OAM&P), and one proven modern operating model across multiple domains, customers can reduce skills isolation, siloed decision-making, and operational costs.
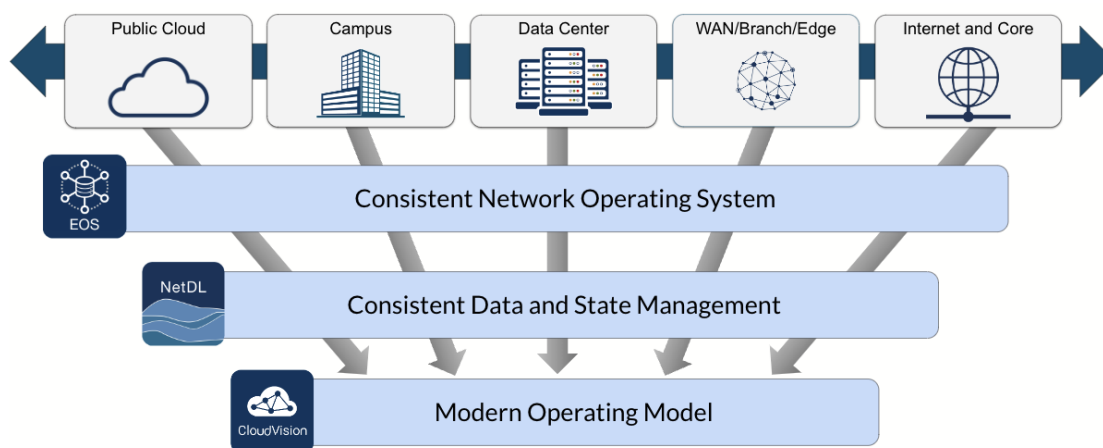

Figure 1: Consistent Engineering and Operations Across All Network Domains

Solution Architecture

Today's application architectures are massively deconstructed and distributed. We frequently see enterprise architectures where a single workflow requires dozens of interconnected applications and systems running in SaaS providers, the public clouds, and on-premises data centers while supporting client connectivity from branches, campus locations, and remote users and teleworkers from their homes and all over the world.

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[1] *https://www.arista.com/en/solutions/enterprise-wan*

[2] *https://www.arista.com/en/solutions/enterprise-wan/pathfinder*

[3] *https://www.arista.com/assets/data/pdf/Arista-CI-Pipeline-Tech-Brief.pdf*

This, more than anything, is dictating an evolution of WAN architecture to one that embraces and optimizes for the following.

- Public Internet as a viable and often primary transport system

- Interconnecting with public cloud and public cloud provider's backbones as viable transit options.

- Network architecture that is application-aware and simplifies traffic engineering, automatically optimizing application traffic to the best path available.

- Resilient and reliable network capable of maintaining service levels across a private network, multi-carrier networks, and the public Internet.

- Usage of Transit Hubs: peering points and aggregation points built using carrier-neutral and cloud-based facilities that enable aggregation of small sites while providing self-healing and path optimization.
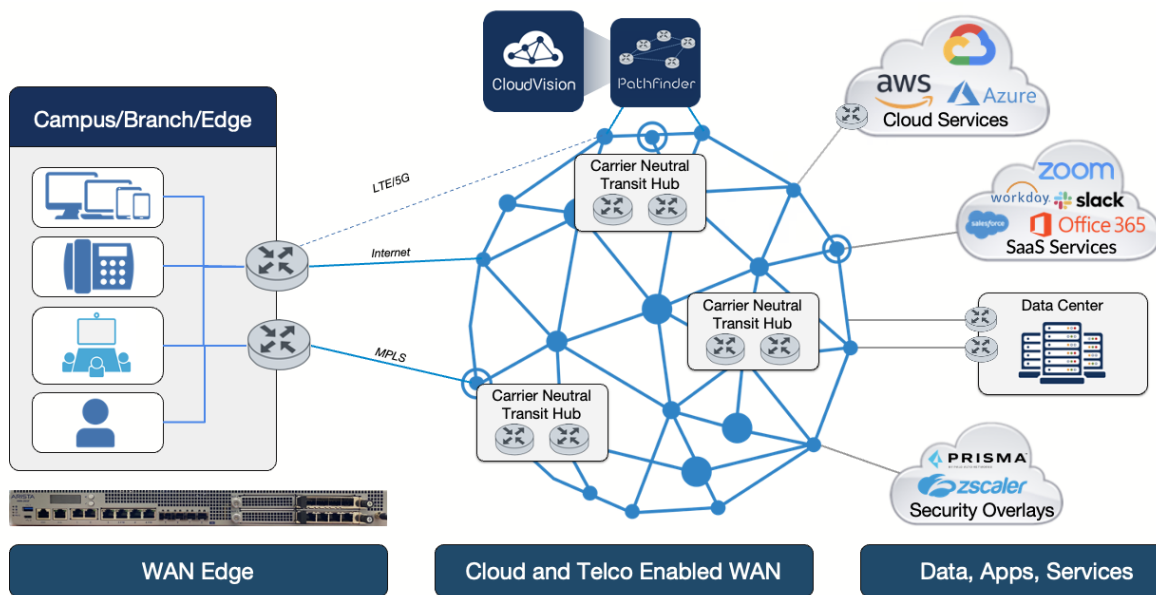

Figure 2: Arista WAN Routing System Architecture

Core WAN Routing System Elements

- The Arista WAN Routing System consists of several innovative and enhanced components available from Arista and our partners:

- Arista EOS software - the same software image as used by all Arista networking platforms, with the same quality, testing discipline, and operational modes - now servicing the routed Enterprise WAN.

- Arista CloudVision - orchestration, provisioning, management, and time-series telemetry, augmented with WAN-specific capabilities for traffic engineering, IP path computation, and application awareness and offered as a managed cloud service.

- Enterprise-Class Routing Systems - enterprise-class routing systems designed for critical sites, aggregation, core networks, and campus network interconnection.

- Arista CloudEOS - extending EOS deployments to the cloud edge and for carrier-neutral transit hubs deployed in densely peered and highly reliable sites like Equinix and available through Equinix Metal, Fabric, and Network Edge services[4].

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[4]*https://deploy.equinix.com*

Arista EOS Software

Arista EOS is the core of Arista's cloud networking solutions for next-generation data centers, campuses, and cloud networks. Cloud architectures built with EOS scale to hundreds of thousands of compute and storage nodes with management and provisioning capabilities that work at scale. Through its programmability, EOS enables a set of software applications that deliver workflow automation, high availability, unprecedented network visibility and analytics, and rapid integration with a wide range of third-party applications for virtualization, management, automation, and orchestration services.

You will find Arista EOS software powering all of our 1Gbps through 400Gbps cloud-scale platforms including the widely popular 7000 Series for enterprise and cloud data centers, the 700 Series for enterprise campus and workgroup locations, and the virtualized CloudEOS software for cloud-native and public cloud environments.

Arista EOS software for every application is developed in a rigorous and modern development model resulting in the same high quality, the same testing discipline, and the same operational modes - and EOS is now also servicing the routed Enterprise WAN.

Arista CloudVision

CloudVision is Arista's modern, multi-domain management platform that leverages cloud networking principles to deliver a simplified NetOps experience. Unlike traditional domain-specific management solutions, CloudVision enables zero-touch provisioning and operations with consistent enterprise-wide automation and analytics experience, helping to break down the complexity of siloed management approaches.

CloudVision provides the core network orchestration, provisioning, management, and telemetry service required for modern networking deployments. It provides core services for real-time network fault indication, performance monitoring, security management, diagnostic functions, configuration, and user provisioning with the objective of enabling continuous monitoring and automated self-healing for quick restoration of the network in case of unexpected failures.

CloudVision Pathfinder Service

CloudVision is enhanced with WAN-specific capabilities for traffic engineering, IP path computation, and application awareness in the CloudVision Pathfinder Service. The Pathfinder service automates the deployment and configuration of network nodes, provides automatic key management for the encrypted network fabric, enables advanced path computation and segmentation services for the WAN, and provides a control point for Arista and third-party network security services.
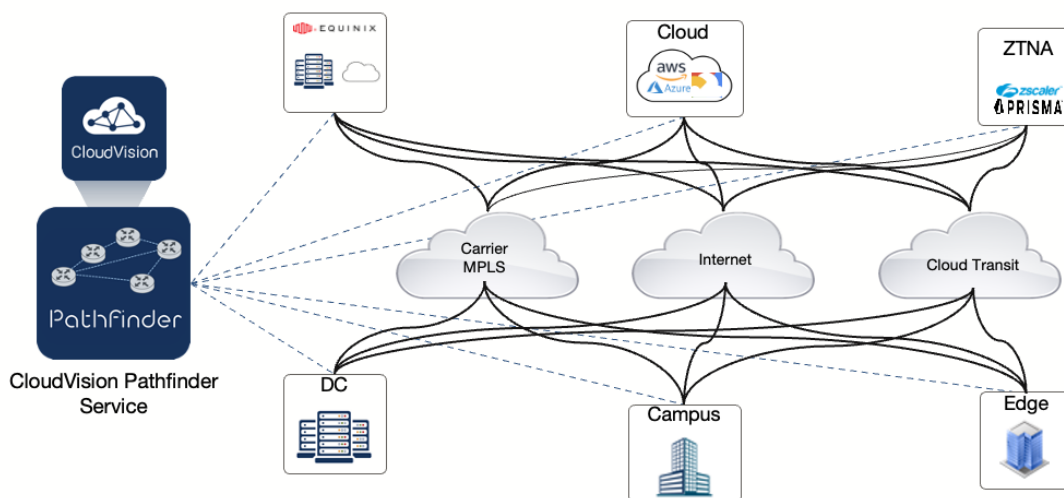

Figure 3. CloudVision Pathfinder Service

Key attributes of the CloudVision Pathfinder Service include:

- Secure ZTP for remote and distributed network devices

- Automated deployment and management of the encrypted network fabric

- Managed EVPN Route Reflectors for site-to-site discovery and scaling

- Automated Provisioning and auto-scaling of transit hubs for multi-cloud and multi-carrier peering and connectivity

- Self-Healing and dynamic re-routing for edge to aggregation traffic issues

- Federated Path Computation Engine for Aggregation-to-Core-to-Cloud multi-pathing

- Adaptive Virtual Topologies: simplify and automate provisioning and engineering of application specific topologies

- Native integration with overlay SASE and Zero Trust Network Access services

- Arista NetDL to provide accurate time-series streaming telemetry storage, data enrichment, and predictive analytics and models to be applied for predictive failure modeling, accurate root cause analysis, and traffic engineering

AWE-7200R and AWE-5000 Series WAN Routing Systems

When connecting critical sites like hospitals, clinics, call centers, assembly lines, schools and universities, and public services we engineered systems that would work for today, and for every day for our clients.
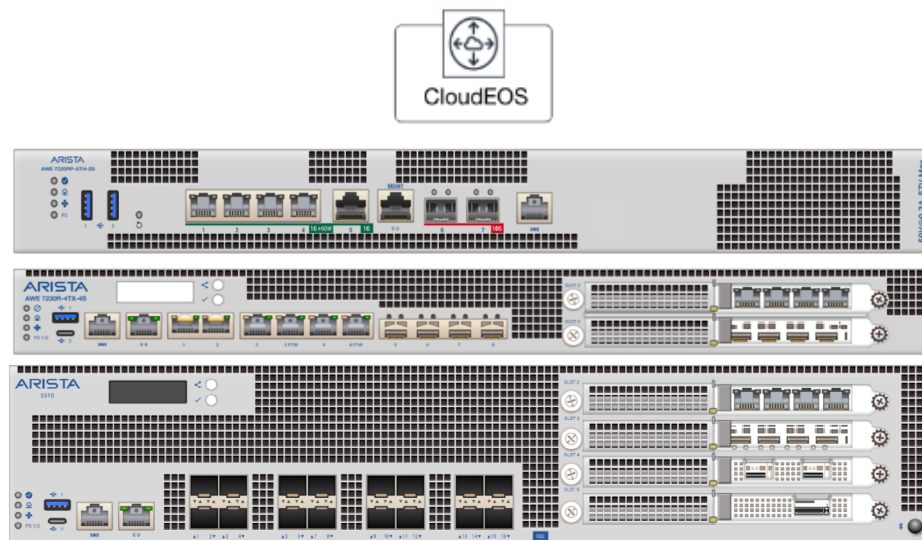
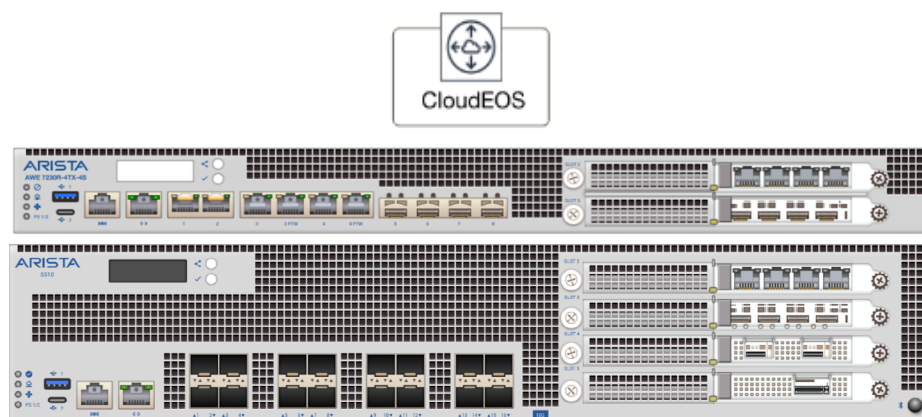*Figure 4: Arista AWE-7200R WAN Routing Systems and CloudEOS*

Figure 5: Arista 5000 Series Systems and CloudEOS

Arista's enterprise-class routing systems are designed for the most critical environments. The Arista AWE-7200R and AWE-5000 Series of WAN systems, purpose-built and powered by Arista EOS software, offer the level of performance and scale to meet modern enterprise WAN edge and aggregation requirements on-premises in remote sites, branch offices, data centers, and campuses.

- Delivering 1Gbps to over 50Gbps of bidirectional AES256 encrypted traffic

- Integrated 1/10/100GbE interfaces and flexible network interface modules

- Fail-to-Wire (FTW) modes ensures WAN link availability even when shut down

- High reliability with redundant and replaceable power supplies and fans

CloudEOS Virtual Network Appliance

CloudEOS is Arista's multi-cloud and cloud-native networking software supporting an autonomic operation and cloud deployment to deliver an enterprise-class, highly-secure, and reliable networking experience for any public or private cloud. As part of the Arista EOS® and CloudVision® product family, it delivers consistent segmentation, automation, telemetry, provisioning, and troubleshooting for the enterprise edge, WAN, campuses, data center, and multiple public and private clouds.

Figure 5: CloudEOS - Integrates Arista WAN System with Public and Private Clouds

CloudEOS ushered in a declarative provisioning and deployment capability across public and private clouds to address the highly dynamic and elastic requirements of enterprise hybrid and multi-cloud networks.

To provide a scalable and automated network experience, CloudEOS integrates with Arista CloudVision Pathfinder Service to simplify the operator's experience of interconnecting and managing multi-cloud, cloud-native, and on-premises enterprise networks. CloudEOS is offered in public cloud marketplaces like AWS, Azure, GCP, and Equinix as well as for private VM deployments on customers' hardware.

Figure 6: Arista Q Series Micro Edge Appliances

System-wide Features and Capabilities

The Arista WAN Routing System is designed to satisfy the WAN connectivity requirements of enterprise customers with an open architecture based on standards and is supported by a number of innovations in advanced WAN services.

Enterprise Class Routing Systems

Physical, Virtual, and Cloud – all using identical EOS software with consistent capabilities. Physical systems are designed for dual-router and carrier-diverse deployments in critical sites, campuses, and data centers as well as in carrier-neutral and cloud-adjacent transit hubs.

Automatic Topologies

Arista WAN Routing Systems provide IP core and aggregation path computation to enable self-healing, dynamic pathing, and traffic engineering not only for critical sites back to aggregation systems and transit hubs, but also between the core, aggregation, cloud, and transit hub systems.
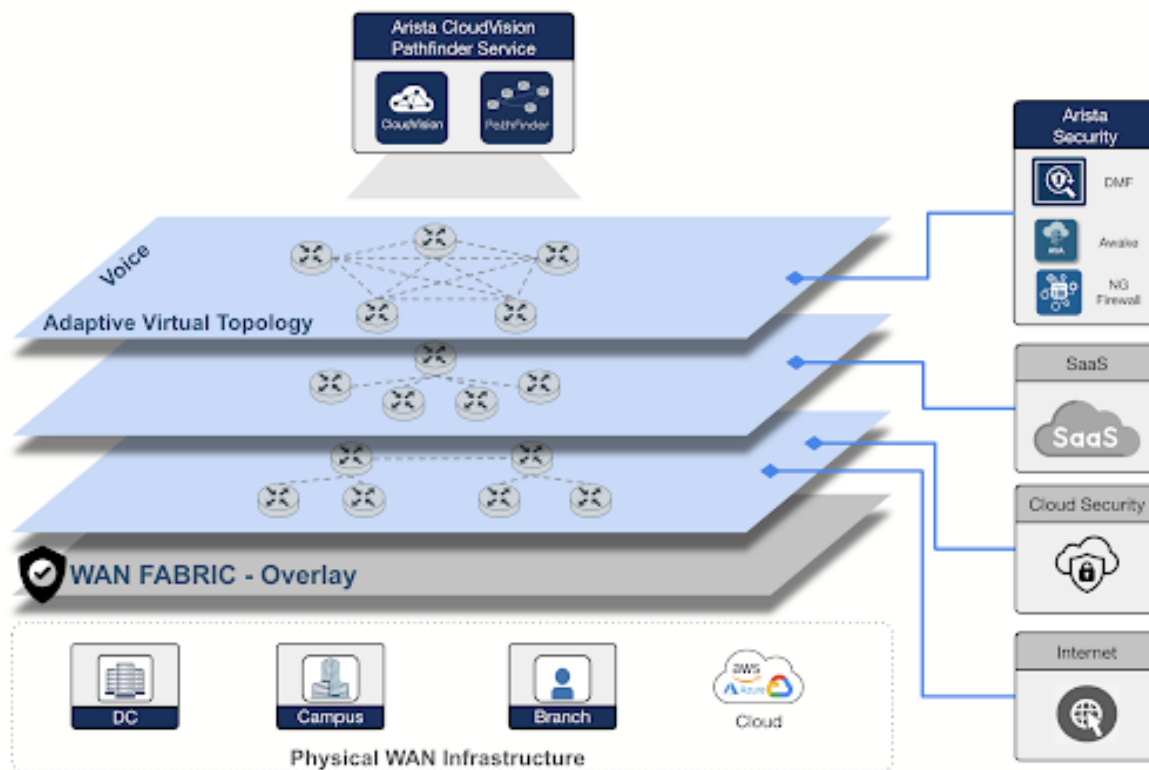

Figure 7: Automated Topology with Adaptive Overlays

Adaptive Overlays

With Adaptive Virtual Topology (AVT) with traffic engineering, application awareness, IPsec AutoVPN cryptography, and self-healing. the Adaptive Virtual Topology (AVT) as a single, 'primary key', to identify either an application or a collection of applications that share a segmentation and traffic engineering set of policies. AVTs are provisioned by classifying an application, then traffic engineered automatically across the dynamic path selection enabled VXLAN and IPsec fabric - efficiently using all underlay paths and constrained by intentional business policy. These paths then become self-healing.

Dynamic Path Selection

Dynamic path selection provides self-healing and traffic engineering for edge, aggregation, and core. Core networks do not have the same rigid patterns we often see in edge-to-aggregation connectivity, so Arista has developed and implemented the enterprise Path

Computation Engine (PCE), capability within the CloudVision Pathfinder Service that enable core networks to be equally capable of dynamic multi-pathing and self-healing. This overcomes many of the challenges our clients have experienced with SD-WAN offerings.

Automatic Application Identification

Deep Packet Inspection (DPI) enables AVT and PCE to identify and classify applications into virtual topologies which are then automatically applied in traffic engineering. Every router has DPI capability to complement the classical 5-tuples classification found in traditional routers. It is capable of recognizing over 3,600 applications including cloud/SaaS, IoT/SCADA, and cryptocurrencies, and can be continuously updated and expanded with each updated software distribution.

With DPI, applications are divided into higher-level categories that are suitable for use in default application profiles at a high recognition rate. It classifies traffic based on flow pattern-matching, flow prediction, flow correlation, behavioral and statistical analysis, machine learning, and more.

Dual Modality Design

The WAN Routing System supports a classic and stand-alone routing model as a default, supporting general routing functionality including BGP, multicast, BGP-EVPN for VXLAN, MPLS (LDP, Segment Routing, MPLS EVPN), as well as EOS core automation, telemetry and visibility features. Classic mode addresses WAN deployments where there are technical and architectural requirements for traditional federated routing protocols in both public and private networks.

With the CloudVision Pathfinder Service, the WAN Routing system supports an SD-WAN-like model of operation where systems have their configurations procedurally rendered, tested, and automatically deployed. This operating mode provides an SD-WAN model while delivering full configuration transparency and standards-based infrastructure for network operators.

Transparent Configuration

In all models of operation, even when all configurations are generated by the CloudVision Pathfinder Service and automatically deployed, and even when all peering and IPsec cryptography are automatically managed, we engineered the system to be easy to troubleshoot and to empower customers to easily understand what a given system is doing. Even when the configuration is automatically generated it is still transparently visible on the system and in CloudVision, and network operators can interact with the system in a familiar fashion.

Open Standards

In contrast to other SD-WAN solutions, all on-the-wire protocols and services are based on well-known, proven, and open IP standards. In the SD-WAN model, all configurations are generated centrally by the CloudVision Pathfinder Service – even in this mode the systems still run open and interoperable routing protocols and maintain high scale federated routing architectures and standard EVPN segmentation.

Additionally, the EOS software architecture, at the core of the WAN Routing System, is based entirely on open standards like Linux. Arista's routing platforms leverage merchant silicon-based platforms using Intel processors, standard Open Compute Platform (OCP) 3.0 network interface cards, and chipsets from Broadcom, Intel, and others.

Deployment

The Arista WAN Routing System can be easily deployed in enterprise WAN use cases from interconnecting data centers, branch offices, and campuses to connecting multi-cloud and SaaS applications. This is accomplished with an architecture that is easy to understand and operate for network engineers, uses declarative provisioning through CloudVision automation, and supports zero-touch hands-free or assisted remote installation and maintenance.

Easy Onboarding of Remote Sites

Arista's Zero Touch Provisioning (ZTP) is used to configure a device without user intervention using DHCP servers. Built to fully leverage the power of EOS, Arista ZTP provides a flexible hands-free remote deployment solution, provisioning the network devices and infrastructure without requiring an on-site network engineer.

In addition, with Bluetooth-assisted installation and servicing, a simple deployment feature for remote sites that do not have access to a ZTP (DHCP) server, the public Internet, or an on-site engineer, can be accomplished by local staff with their personal devices.

Arista ZTP and Bluetooth-assist are secure processes and prevent unauthorized installation, modification, theft of the equipment or exploitation of configuration and security data.

Multi-Transit with Cloud Transit Hubs

Supports connectivity over MPLS, MPLS TE, Direct Internet Access, public cloud transit hubs and backbones, 5G/LTE, and macro insertion of SASE/ZTNA overlays. Dynamic provisioning and scaling of carrier-neutral transit facilities are provided by cloud backbone services such as Azure, AWS and GCP. Support for cloud transit and transport facilities allows customers to further reduce cost, improve performance, reduce latency, and eliminate backhauling of traffic through their data centers and core network infrastructure.

This flexible transit model supports faster cloud adoption where enterprises need to adopt cloud services. Extending the full Arista WAN routing stack into the public Cloud and colocation facilities with CloudEOS simplified connectivity and management across distributed applications and data. With the Arista WAN Routing System, these deployments can integrate into a secure and automated client-to-cloud environment.

Insertion with Security Services

Operators can simply onboard enterprise security services including external and 3rd Party services such as firewalls, cloud security, SaaS, and other value-added services including:

- Secure Internet Exit (local, remote, and with firewall)
- Cloud Security Access (SASE)
- Direct SaaS Based application access
- Enhanced Observability and Monitoring

Additionally, operators can easily onboard Arista Network Detection and Response (NDR) and Arista NG Firewall.

Equinix Services and Edge Integration[5]

The WAN Routing System leverages Equinix Edge, Metal, and Fabric services to deliver secure, scalable routing architectures using Equinix cloud-neutral and carrier-neutral networking as a core network foundation. This supports densely peered environments with Equinix Metal, Fabric, and Network Edge services delivering improved site-to-site connectivity with CloudEOS. It also provides a fast onramp to any public cloud via Azure Express Route, AWS direct connect or GCP Cloud Interconnect.

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[5]*https://docs.equinix.com/en-us/Content/Interconnection/NE/landing-pages/NE-landing-main.htm or https://deploy.equinix.com*

Choosing the Right WAN Solution for Your Enterprise

Enterprises and service providers of all types build data centers where power and space are plentiful, and campuses where users are plentiful. They put retail branches and clinics where customers and patients are plentiful, and build WAN cores where connectivity is plentiful and cost-effective. Employees also expect to have access to broadband Internet access wherever they work without intrusive controls and without exposing their workspace to additional risks.

Increasingly enterprise applications are disaggregated and multi-dimensional. Connectivity and security need to span the needs of these applications. It is common to see enterprises dependent on an integrated blend of SaaS applications, cloud-based data storage and compute resources, custom bespoke applications in the cloud, and on-premises or shared value-added data sources. All of this connectivity needs to encompass SaaS applications, on-premises workloads, and cloud services. The flexibility of an open, carrier-neutral, and multi-cloud approach to WAN design is essential.

Enterprises today are rethinking how to deliver the suite of enterprise applications and capabilities needed to run their business for all of the places in their network – safely and efficiently. A modern WAN needs to address these challenges with services tailored to enterprise applications while providing security at the network edge.

Arista understands these needs. This is evidenced in our WAN Routing System design with smart choices like CloudVision for automation, Network CI pipeline for integration with operational DevOps/NetOps best practices, broad support for all of the public cloud transit hubs, transit over either cloud or traditional MPLS carrier backbones, multi-path high availability using direct Internet access and wireless 5G/LTE, secure encrypted end-to-end connectivity and integration with security SES/SASE and threat management offerings.

Arista's network observability with Arista DMF and network security offerings, with Arista Network Detection and Response (NDR), Next-generation Network Firewall and Edge Threat Management (ETM), and Micro-edge platform for smaller remote locations together provide an end-to-end solution for enterprise WAN connectivity requirements.

Feature Comparison of Arista WAN Routing System vs. SD-WANs

The Arista WAN Routing System adds significantly more value to the typical feature set of first-generation SD-WAN functionality. It is ideally positioned for adoption by the majority of enterprises that have only begun to make the transition to a modern WAN architecture, have been forced to transition from end-of-life traditional WAN routers, or have invested in niche first-generation SD-WAN technologies.

Table 2: Enterprise WAN Selection Criteria		
Feature Comparison	**Arista WAN**	**SD-WAN**
Full Enterprise-Class Standardized Routing Stack	✅	❌
Dual-modality Edge Nodes	✅	❌
Transparent Configuration with Network CI Automation	✅	❌
Multi-domain Automated OAM&P Solution	✅	❌
Consistent Across Enterprise Domains (Campus, Data Center, Cloud and WAN)	✅	❌
Standards-based Core and Aggregation Path Computation	✅	❌
SD-WAN Functionality:		
Agility and Flexibility	✅	✅
Dynamic Application-aware Routing	✅	✅
Transport Agnostic (IP, MPLS, Internet broadband, LTE/5G, Cloud Transit Backbones)	✅	✅
Optimizes Application Performance	✅	✅
Centralized Management	✅	✅
Zero-touch Provisioning	✅	✅
Integrates with Network Security Services	✅	✅
Helps Control WAN Costs	✅	✅

Conclusion

Many enterprises have gained great benefits from operationally valuable SD-WAN features, making their WAN networks easier to deploy, provision, and operate – but these features and capabilities should no longer require proprietary vendor lock-in. With a superior transition plan from traditional WAN routing platforms, and all the capabilities of SD-WAN technologies, the Arista WAN Routing System addresses requirements of a modern WAN architecture.

Arista continues to provide better system architectures while delivering consistent operational experiences across data center, cloud, campus, and now the routed WAN. With a consistent operating system and management platform, telemetric state-oriented data lake, and consistent network architectures Arista unlocks capabilities that are transformational.

For more information and to see the Arista WAN Routing System in action contact Arista at info@arista.com or sales@arista.com or see your Arista reseller.

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