



ARISTA

Arista Data-Driven Solutions

Arista's Strategy: Client to Cloud and AI Networking



DIGITAL TRANSFORMATION



STREAMING MEDIA SURGE



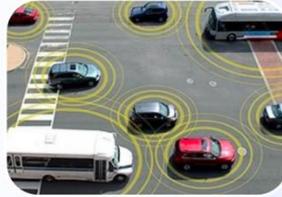
SECURE ACCESS SERVICE EDGE



HYBRID WORK AND RTO



IOT/OT PROLIFERATION

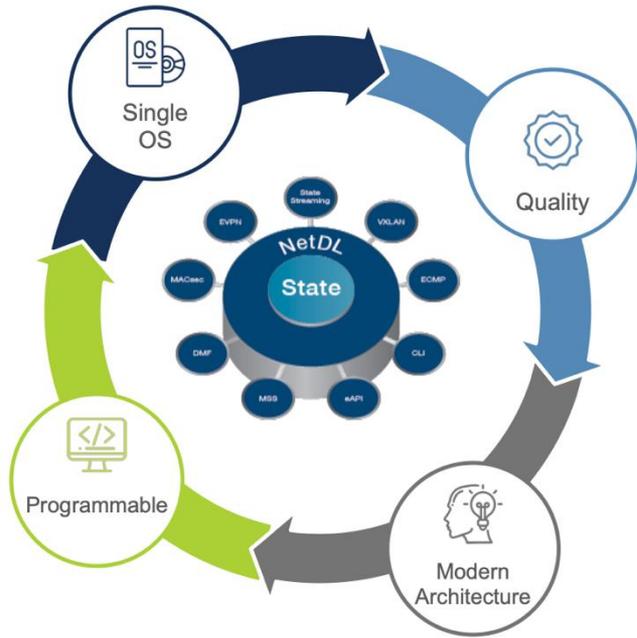


AI APPS



CLOUDIFICATION

Arista EOS: a Robust Software Foundation



Customer flexibility through open, Standards-based Architecture



Reduced Operational Costs through Network-wide Automation



High Reliability with modern operating system and unique automated testing approach



Fast issue resolution with Rich Telemetry

Arista EOS Stack Evolution



AI-Enabled Network Operations 2020s

Centralize all Network State Data and Enrich w/ 3rd Party Integrations to build foundation for AI NetOps



NetDL - add enriched data sources & packet, flow, and network data. Enable powerful AI/ML app development.



SDN and Intent Systems 2010s

Centralized models for network automation and data



NetDB - centralized the network state of multiple devices - enabled automation and provisioning orchestration.

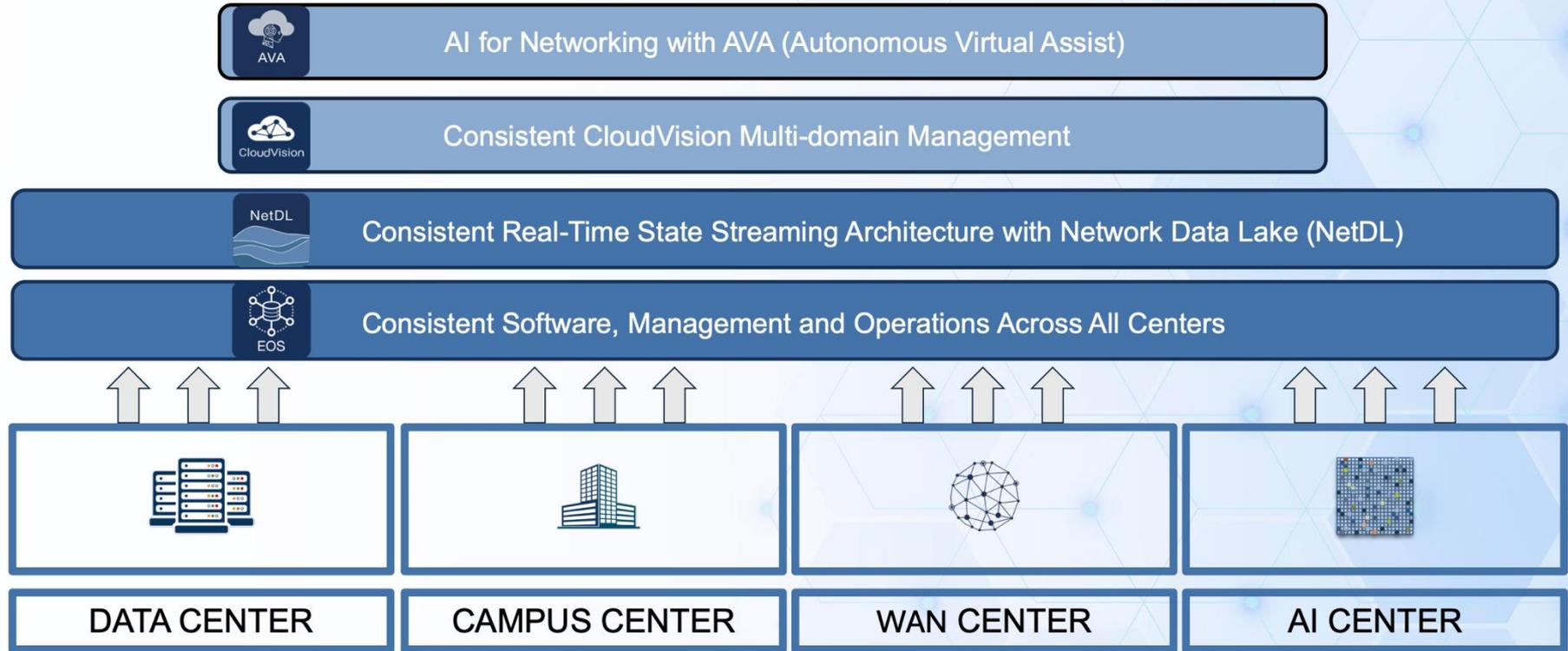
Federated Routing Protocol 1990s/2000s

Development of BGP/OSPF and multiple distributed topology construction methods - achieved unprecedented scale



SysDB - device-level network state aggregation - improved reliability and development efficiency through publish/subscribe model

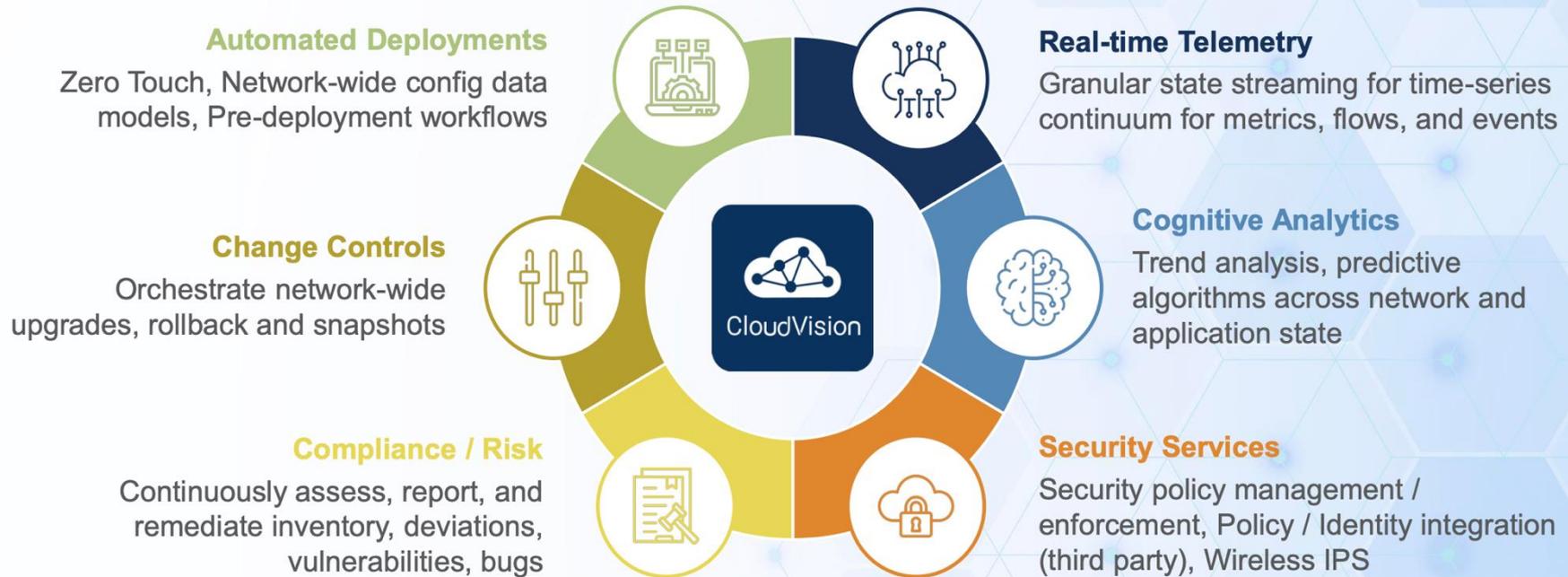
EOS Stack: Best Software Across the Enterprise



The Five Reasons EOS is the Best

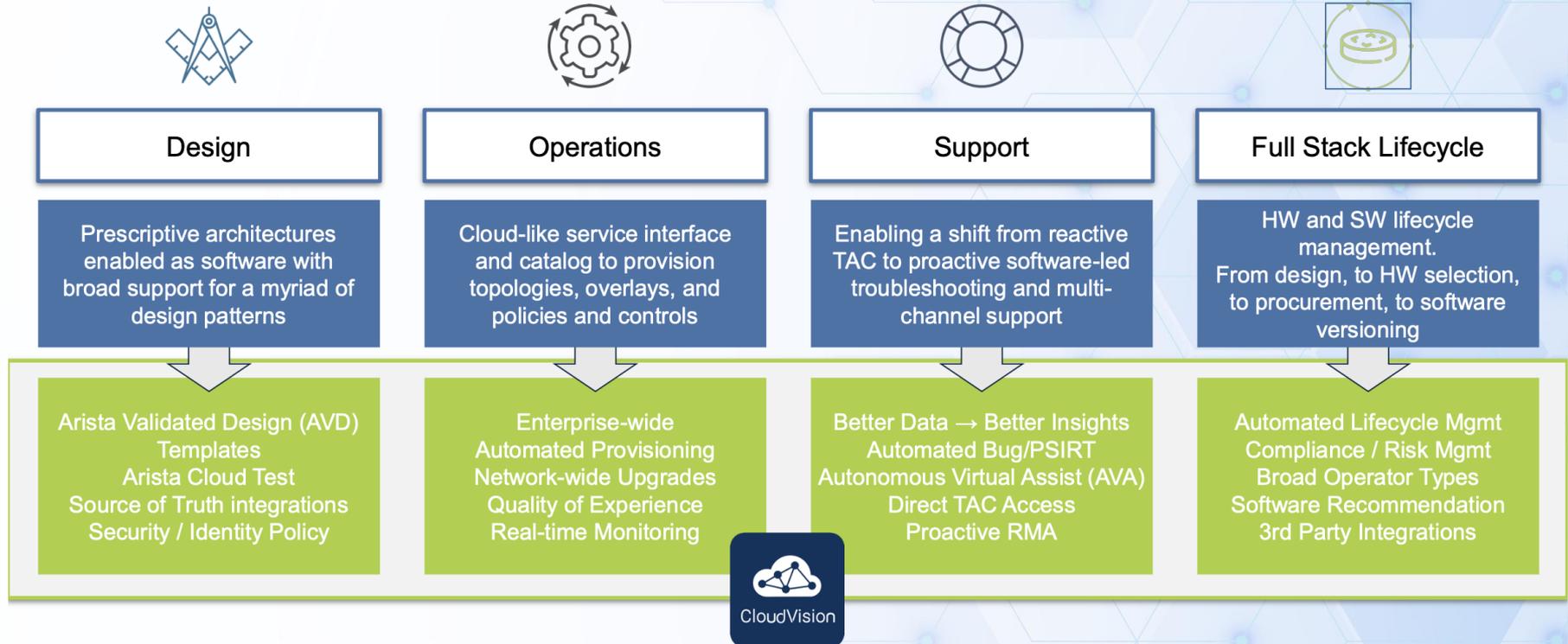


CloudVision: Multi-Function, Multi-Domain NetOps



One Platform for Consistent Operations Across Domains

Arista's Platform for Network as-a-Service



Network as-a-Service built on the NetDL Foundation

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ARISTA

Arista Data Center,
Cloud and AI Solutions

Enterprise and Data Center Portfolio

Collapsed Spine



7050X Series



7060X Series



7280R Series

AI Spine



7800R Series

DCI and Data Center Spine



7800R Series

7500R Series

Campus Leaf



750X Series



720D Series



720X Series

Data Center Leaf



7050X
10G - 400G



7060X
25G - 800G



7280R
10G - 400G

AI Leaf



7060X5 Series
400G - 800G

Domain-Specific Products for Data Center Networks

Consistent High Performance and Extensible EOS

Highest Bandwidth



7060X Series

Cloud and AI application stacks

Highest Switching performance

Lowest Latency

Scale Out & High Radix

High density 400/800G Fixed Spines

Multiple Choices - 25G to 800G

Feature Rich



7050X Series

Enterprise application stacks

Multicast, EVPN, VXLAN

Rich Telemetry for deep visibility

Compute TOR for 10/25/50/100/400G

Flexible Traffic Management

Integrates into Campus Architecture

Cloud Grade Scale



7280/7800R Series

Routing, Storage and AI Spine

EVPN, MPLS, SR

High capacity scaling

Metro & DCI with MACSec & ZR

Packet Spraying & VOQ

Fixed and Modular Choices

EOS for AI

Arista EOS, because AI needs ...

- Robust and Resilient Network OS
- Lossless network
 - Cell based Fabric
 - Optimal load balancing
 - Adjustable buffer allocation schemes
 - Advanced Congestion Management
- Scalability and Multi-tenancy
 - Mature feature set: VXLAN + EVPN
- Network visibility
 - Extensive counters
 - Real-time state streaming

AI Traffic Differs from Cloud Networking

Datacenter Type	CPU Datacenter	AI Datacenter
Connectivity per XPU	100G	400G/800G
Network Design	Oversubscribed	Non-Blocking
Bandwidth per 128K Chips	1 Petabit/Sec	100 Petabit/Sec
Traffic Pattern	Random	All-to-All, All-Reduce
Flow Duration	Short-lived	Long-lived
Congestion Impact	Minor	Very Significant

AI Networks Need a New Architecture to Optimize Performance

Arista Etherlink AI Portfolio

Single Tier



Fixed & Modular Systems

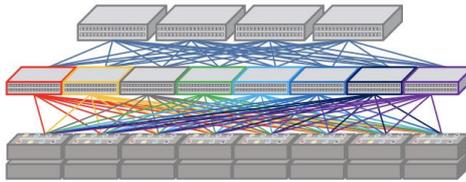
51.2T ➔ 460.8T

64-576 x 800G Nodes

128-1152 x 400G Nodes

Lowest Cost, Power &
Complexity

Leaf-Spine



2- or 3-Tier Leaf-Spine or Plane-based

Multi-Petabit Bisectonal B/W

DLB, PFC, ECN,

Hundreds of Thousands of
Nodes

Distributed Etherlink Switch



Single Hop Interconnect

Fully Scheduled Lossless

100% Efficient, Cell Spraying

Multi-Petabit Bisectonal B/W

Tens of Thousands of Nodes

Accelerator & NIC Agnostic, Open Standards, Smart AI Features

Scaling out the AI Spine

7800R4 AI Spine



Lossless Fully Scheduled VOQ
100% Fair And Efficient Traffic Spraying
Integrated Redundancy and Resilience
Optimized Pipeline for AI Workloads

50X Scale Out

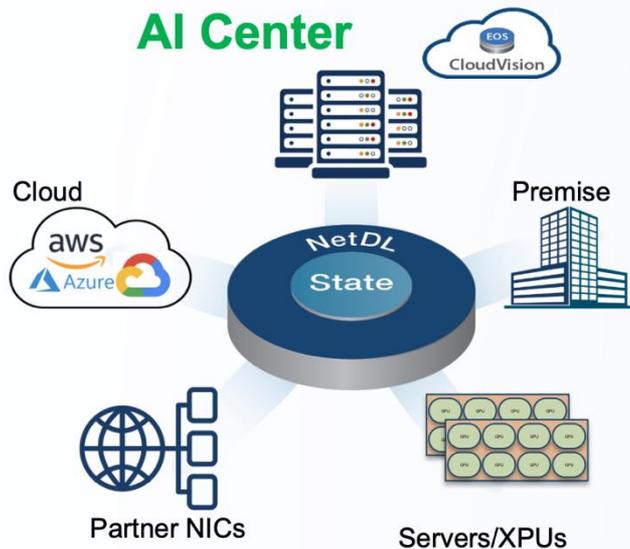
7700R4 Distributed Etherlink Switch



Lossless Fully Scheduled VOQ
100% Fair And Efficient Traffic Spraying
Integrated Redundancy and Resilience
Optimized Pipeline for AI Workloads

Common Architecture – Re-packaged for AI Scale Out

Arista's AI Center Vision



Rich Etherlink Portfolio

Powered by EOS for AI @ Scale

Holistic CV from AI Server to Switch

Ecosystem of Accelerators

Ecosystem of NICs

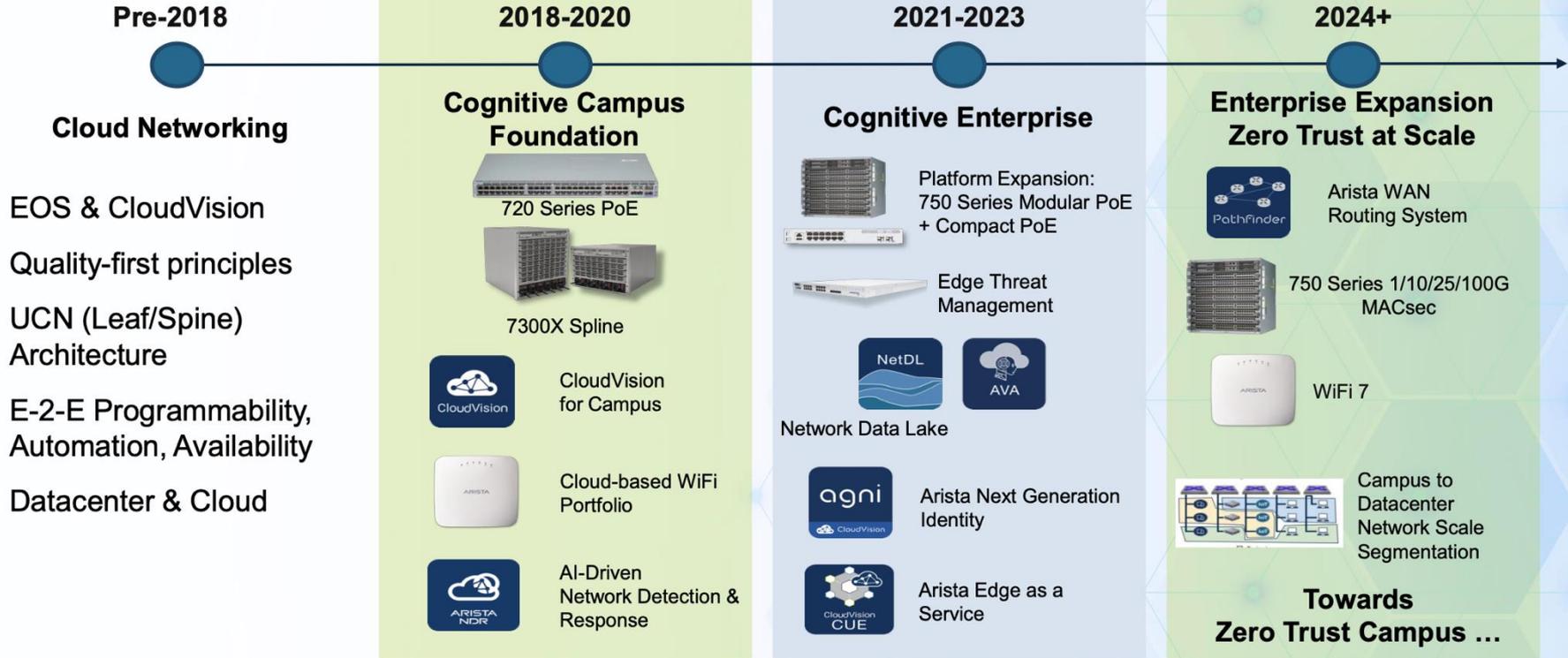
Migrate from Silos of XPUs, NICs, switches to a Holistic Network Based **AI Center**

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Arista Cognitive Campus and Routing

Arista's Cognitive Journey



Arista Switch Aggregation Group

Modernized Stacking for Modern Campus Networks



1

EOS SWAG (Switch Aggregation Group)

Allows a set of switches to be grouped through a single IP address and provide a single CLI interface for automation



2

CloudVision Leaf Spine Stack (LSS) Management

Manage a group of switches collectively whether in standalone mode, MLAG, Modular Chassis or SWAG

Arista enterprise expansion into broader incumbent installed base

Arista is leading Wi-Fi 7 Transition

Three Wi-Fi 7 Access Radios



Multifunction Wi-Fi Radio



Dual 10 Gig Uplinks



Dual PoE



USB Port



IoT Radio



GNSS Radio



TPM Chip



C-460 / C-460E
Low Power Indoor AP



Industrial IoT



AR / VR



Gaming



High Resolution Video



Real Time Collaboration



Distributed AI Apps



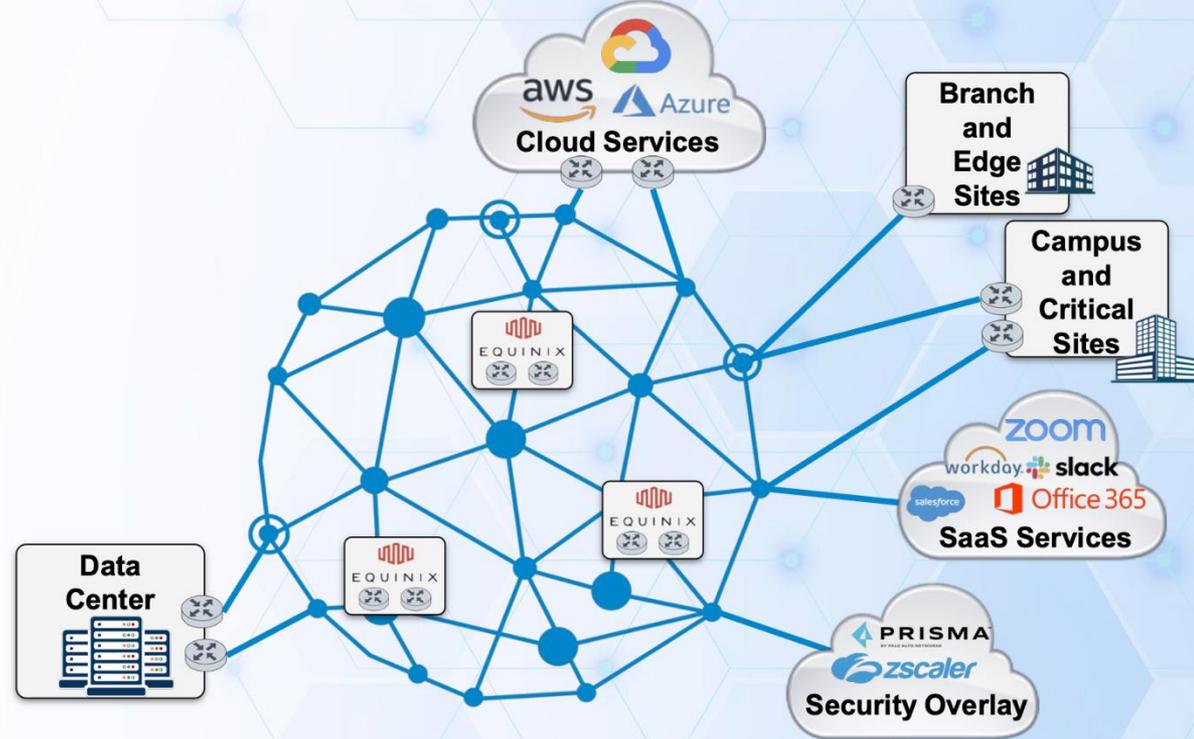
Arista's Modern WAN Architecture

Multi-Access: MPLS, Internet, Fiber, Lambda, Cloud Backbone, LEOSat

Federated Architecture: Routing and SD-WAN w/o Compromise

Virtual Topologies: Application Aware, Identity Aware, Segment Aware

Secure: Zero Trust Foundation and Root of Trust across the Wide Area



Self Healing and Autonomously Traffic Engineered WAN

Spine and Routing R3 Series Portfolio

30

Fixed and Modular Products
Jericho2c+ and Qumran2c+



Universal TunnelSec™ Encryption



Dense 400G DWDM
Rich EVPN Services

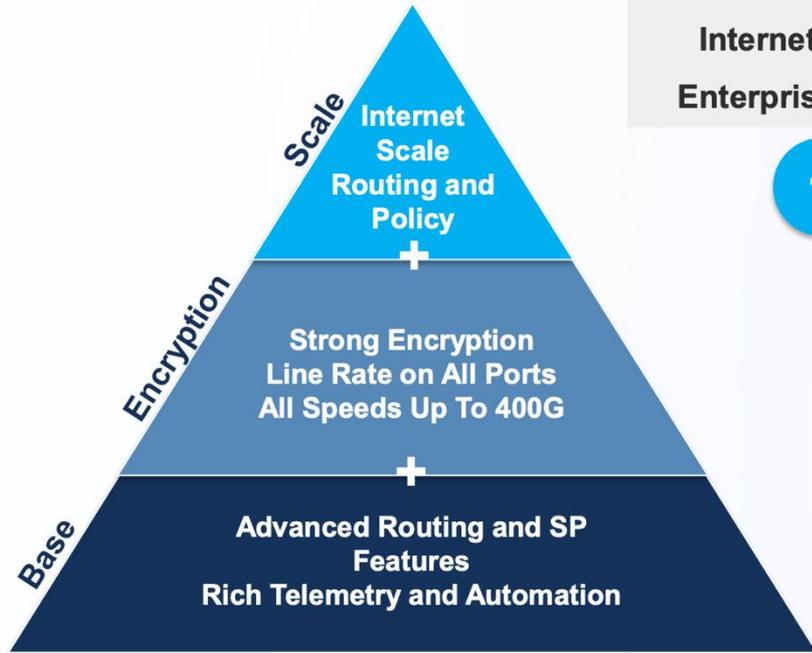
50%

Reduction in Power
Consumption / 100Gbps



Cloud Grade Routing from 1 to 460 Tbps - Single EOS - Consistent R Series Features

Arista Routing Use Cases



Service Provider
Cloud Backbone
Internet Exchange
Enterprise Backbone



AI/ML Clusters
Financial Services
HPC / Supercomputer
Render Farms

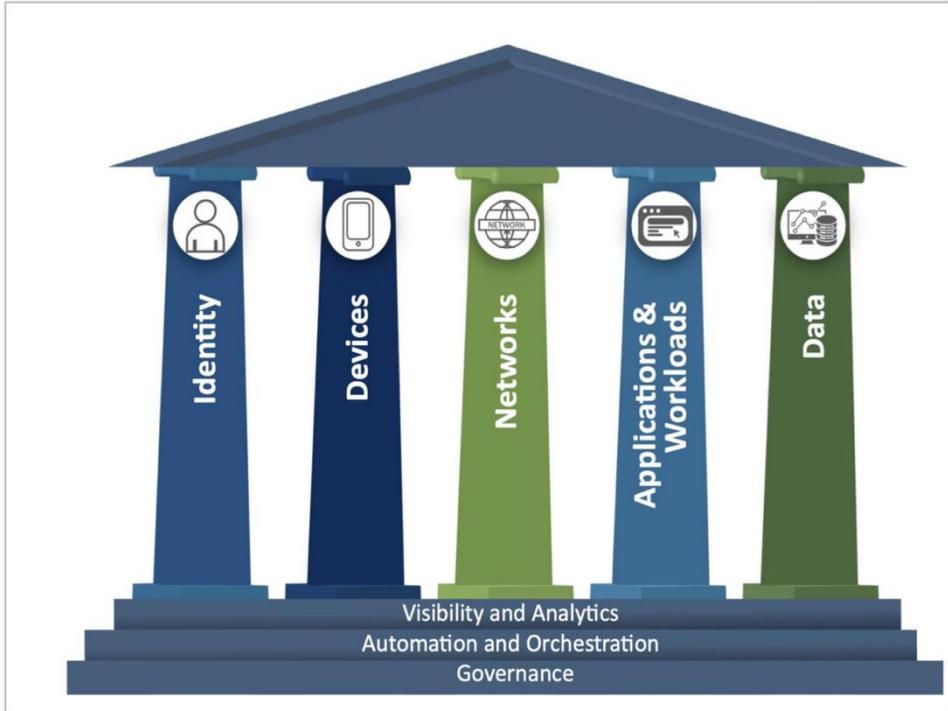
Broadcast & Post Production
IP Storage
Enterprise Data Center
Big Data Clusters

Purpose Built for Intensive Cloud, Enterprise and Carrier Workloads

ARISTA

Arista's Zero Trust Networking

The CISA Zero Trust Security Maturity Model



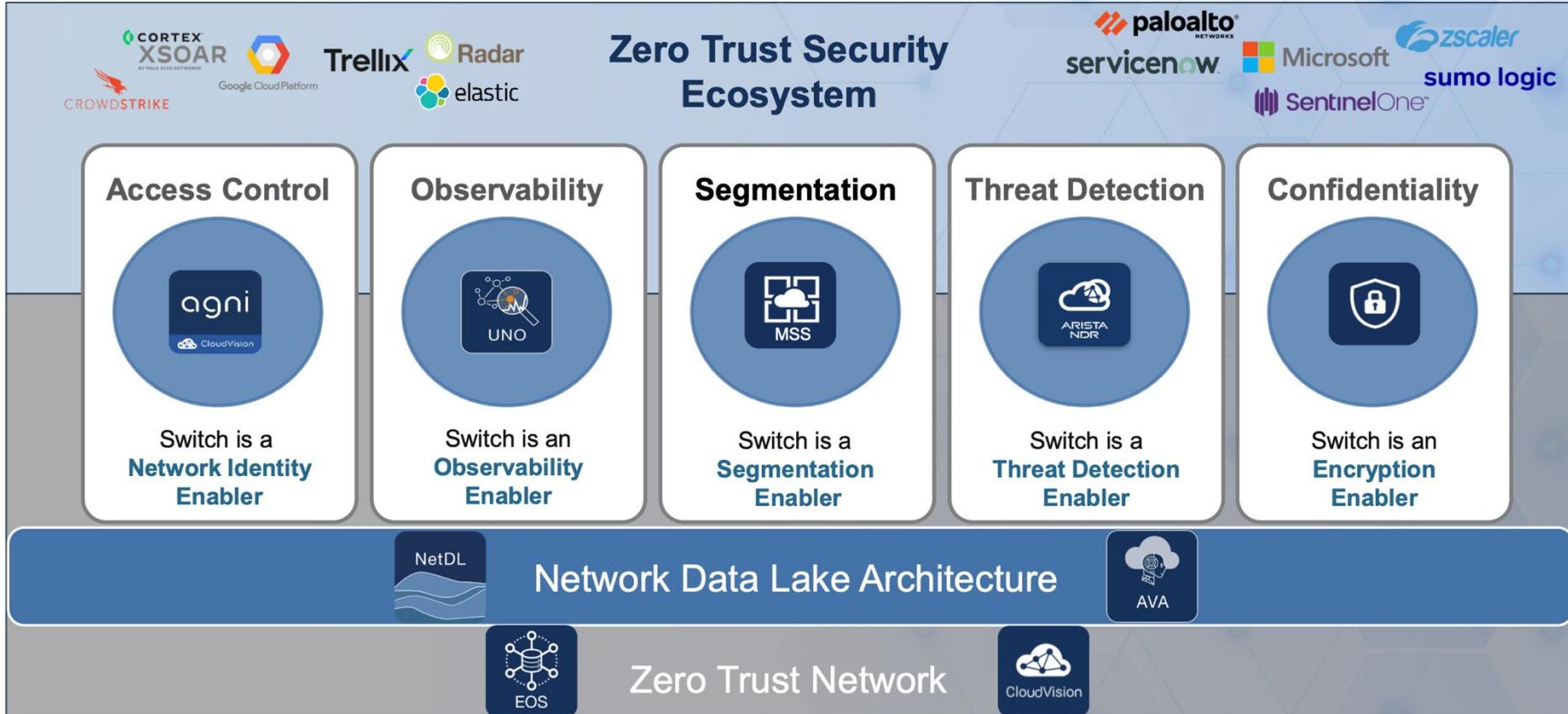
CYBERSECURITY
& INFRASTRUCTURE
SECURITY AGENCY



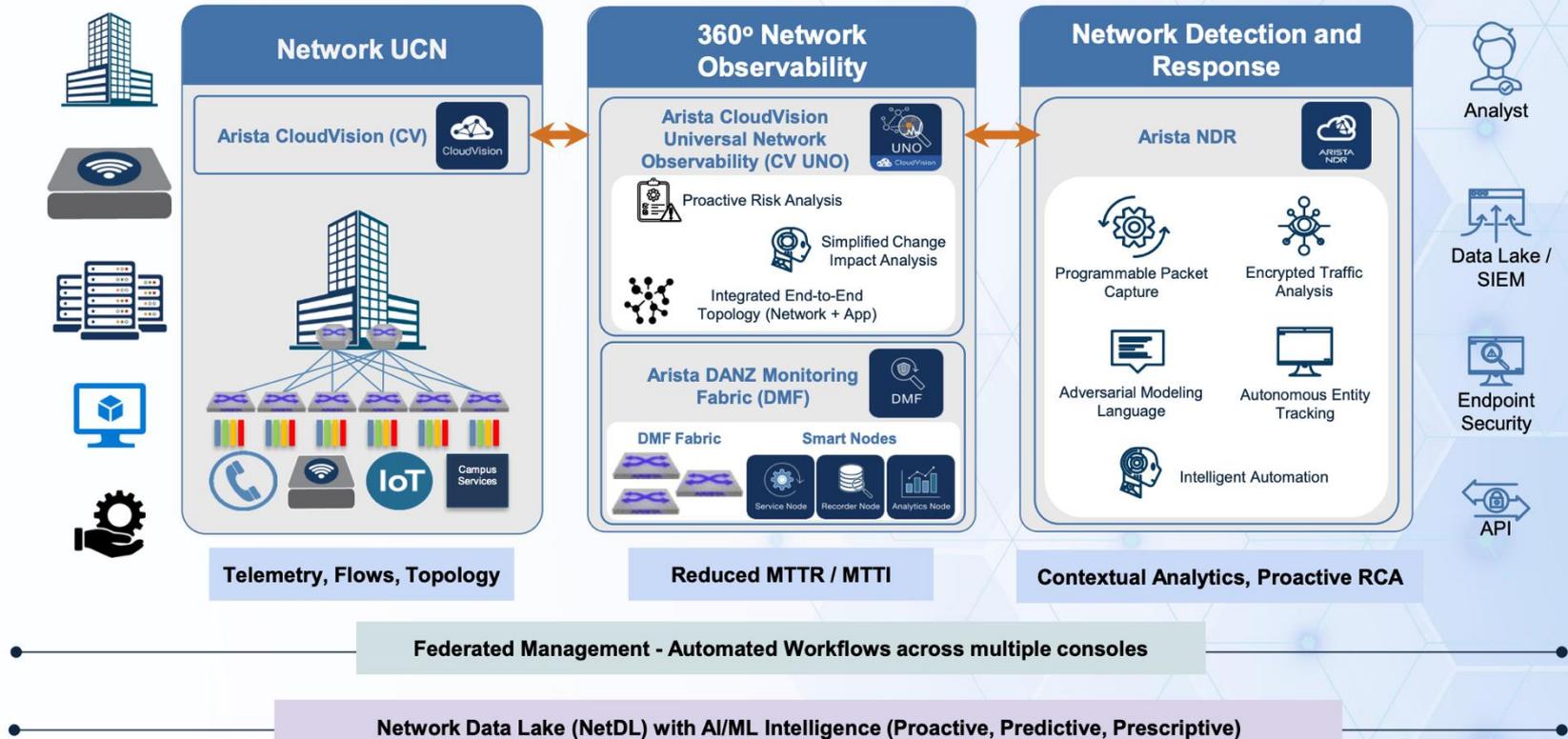
Traditional security perimeter is changing with *internal/external security boundaries collapsing...*

...driving the *need for pervasive, microperimeter segmentation in the network*

The Network: The Foundation Of Zero Trust



Pervasive Observability with Zero Trust Security



Network Software and Services

Arista's Holistic Approach



CloudVision

CloudVision

Automation Tool for Configuration and Management of Wired and Wireless networks, Collects Streaming Telemetry from EOS State Database for End-to-End Network Visibility and Observability



DMF

DMF – DANZ Monitoring Fabric

Network Monitoring, Analytics, and Recording, for Capturing Data inside the network



agni

Arista Guardian Network Identity

The next generation cloud-native solution that delivers identity-based network access control



ARISTA NDR

Arista NDR Security

Proactive Network based machine learning technology to identify an attacker based on their intent versus merely looking at indicators of an attack



EOS

CloudEOS

Virtualized/Containerized version of EOS for hybrid multi-cloud networking. Running on Amazon AWS, Microsoft Azure, and Google public clouds via their marketplace and service catalogs



A-CARE

Arista A-Care – Software updates, features and break/fix troubleshooting. Powered by Arista AI ops toolset designed to speed problem identification and resolution.

The background of the slide features a dark blue color with a complex geometric pattern of hexagons and lines. Some of the hexagons are filled with a lighter shade of blue, and small, glowing blue dots are placed at the intersections of the lines, creating a network-like or circuit-like appearance.

ARISTA

Thank you

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