Arista Networks is the leader in building software driven open networks for today’s datacenter and cloud computing environments. Arista delivers the most efficient, reliable and high performance Universal Cloud Network architectures based on 10G, 25G, 40G, 50G and 100G platforms delivered with an extensible operating system – Arista EOS®. Arista EOS is built on an open, programmable, and resilient state-sharing architecture that delivers maximum system uptime, reduces CAPEX and OPEX by simplifying IT operations and enables business agility. Arista EOS software offers programmability at all layers, including eAPI, EOS SDK, Linux, DevOps integration (Ansible/Chef/Docker/Puppet), and broad scripting support. Furthermore, Arista CloudVision® software NetDB extends the EOS state-based architecture to a network-wide scope as a platform for workflow automation, workload orchestration, and advanced visibility. CloudVision’s open framework leverages modern APIs and state streaming to capture granular network state and to integrate with a variety of network overlay, network orchestration, telemetry and security ecosystem partners.

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**TCO**

- **3x** Savings with faster migration and integration between public and private cloud
- **10x** OPEX savings using single pane of glass for network automation and analytics into public and private cloud
- **5x** Cost savings using same operational model for public and private cloud
• Fully programmable platforms allow rapid, automated deployment and provisioning
• Open SDK/APIs for easy integration with third-party and customer extensions
• Single-OS consistency across use cases for every place in the cloud
• Proven solutions and reference designs with a broad best-in-class ecosystem of partners

ARCHITECTURE

High Availability
- Open, predictable and efficient network designs with only modern, open and standards-based protocols using ECMP & VXLAN
- Advanced hitless upgrade/update and auto recovery features with 100% active-active utilization of all bandwidth, resources and links

Scalability
- A state sharing, highly resilient, multi-process architecture that enhances reliability, visibility and scalability
- Supports networks from a few nodes to millions of VMs, containers and end-points at Internet scale and with linear expansion

Efficiency
- Designed to utilize advancing developments in merchant silicon hardware, ensuring a path for customers to new advances in speed, scale and efficiencies with proven investment protection

AUTOMATION

Cloud Automation for Everyone
- CloudVision provides a turnkey automation hub for config and image management, change control simplification, operations compliance, and much more

Zero Touch Provisioning
- Reduce operating costs and time to production with ZTP by eliminating human errors during rack expansion or replacement
- Automate infrastructure scale-out using standards-based mechanisms that are customizable and scripted at any scale

DevOps Integration
- Integrate development and operations workflows with DevOps and CI/CD tools including Docker, Ansible, Chef, Puppet and others
- Automate network and server management with access to any virtualized, containerized or Linux tool running natively on EOS

ANALYTICS

Telemetry
- Access and record network-wide state and and congestion information for every workload, workflow and workstream
- Identify and troubleshoot issues in underlay and overlay network topologies for real-time or forensic analysis

Tracers
- Enable real-time visibility and automation for highly dynamic, virtualized, containerized, big data and bare metal workloads
- Correlate network health and reachability information with workload placements in the public, private and hybrid cloud

TAP Aggregation and Advanced Mirroring
- Get precision access to raw and filtered packet data anywhere and anytime at industry-leading scale with both in-band and out-of-band capture, replication and analysis capabilities
- Generate and analyze high rate sFlow metadata for macro-level visibility into performance trends and security threats

FOUNDATION FOR UNIVERSAL CLOUD NETWORKING

EOS – Open and Extensible Networking Software
- State sharing, highly resilient, multi-process architecture that enhances reliability, visibility, serviceability at any scale
- Built on state-of-the-art NetDB process isolation architecture and continuous development model to enable ease of customer extension, high stability and rapid delivery of advanced features
- At its core, a native unmodified Linux kernel and runtime supporting open APIs, Python, Go, JSON eAPI/SDK, OpenFlow/DirectFlow, AEM event notification, Docker runtime, Linux tools, etc.
- Packaged as bundled EOS on Arista switches, containerized EOS, or virtualized EOS – for any production or simulation use case

CloudVision – A Platform for Cloud Automation and Visibility
- Extends EOS shared-state to a network-wide model for global automation, orchestration, visibility, and analytics
- Unified control point for third party (SDN/SDDC) network controllers, orchestration systems, and security platforms
- Turnkey automation for provisioning and ongoing change management with network-wide snapshot and rollback
- Visibility and correlation of network state across physical, virtual and cloud network infrastructures
### Product Line Overview

<table>
<thead>
<tr>
<th>Class</th>
<th>Model Number</th>
<th>Overview</th>
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<tbody>
<tr>
<td>7100T</td>
<td>46</td>
<td>G6E Ultra-Low Latency Programmable Leaf</td>
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<tr>
<td>7100S</td>
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<td>10/40GEE</td>
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<td>32, 64</td>
<td>10/25/40GEE Dynamic Deep Buffer</td>
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</tbody>
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### Available Architecture

- **Universal Cloud Networking**
  - Any Work-X
  - Automation
  - Analytics
  - Any Cloud API
  - WCA
  - WCC
  - WCC
  - WCC
  - WCC
  - WCC
  - WCC
  - WCC

### Any Cloud

- SCP
- VPC A
- VPC B
- VPC C
- VPC D
- VPC E
- VPC F

### On Premises

- Layer 2 / MLAG
- Layer 3 / VXLAN