Arista Networks is the leader in building software-defined, open networks for today’s data center, Web 2.0, and cloud computing environments. Arista delivers the most efficient, reliable and high performance universal cloud network architectures based on 10GbE, 40GbE, and 100GbE platforms. Arista EOS® is built on an open, programmable, and resilient architecture that delivers maximum system uptime, reduces CAPEX and OPEX by simplifying IT operations, and enables business agility. Arista EOS offers programmability at all layers, including eAPI, EOS SDK, Linux APIs, DevOps integration (Puppet/Chef/Ansible) and broad scripting support. Furthermore, Arista EOS CloudVision® extends EOS to a network-wide scope as a platform for workflow automation and workload orchestration. As a single network control point to the physical network, CloudVision integrates with third party controllers and orchestration solutions, including OpenStack, VMware NSX, Microsoft Windows Server, Nuage VSP, and others to provide workload mobility for virtualized and cloud environments.

**Resiliency and Scalability**
- Scalable Architectures
  - Simplified, repeatable design leveraging open, standards-based protocols, No vendor-specific lock-in to the design
  - Scale to your needs, from 100 to 300,000+ compute and storage nodes using MLAG in a Layer 2 active-active mode
  - ECMP provides an all active multi-path for Layer 3 with exceptional scale and consistent performance for 2 tier network designs
  - Standards-based network virtualization with VXLAN — extends layer 2 to support up to 16M virtual networks without requiring multicast
  - EOS CloudVision offers single point of integration and controller agnostic support for virtual and physical workload orchestration using open APIs such as OVSDB, JSON and OpenStack plugin
- Resilient Software
  - Reduced maintenance window with Arista Smart System Upgrade (SSU) through graceful removal, upgrade, and reinsertion of network elements
  - Live patching and upgrade of individual processes within EOS during normal switch operation
  - Self-healing resiliency through fault containment within a single module and stateful process restart
  - Custom monitoring, failover and load-balancing with third party integration
  - Turnkey solution for network-wide upgrades and rollback with EOS CloudVision

**Visibility and Telemetry**
- Network Visibility
  - VM Tracer offers visibility into which VMware hosts and VMs are on a given physical network port
  - MapReduce Tracer tracks and interacts with Hadoop workloads ensuring faster recovery in case of a node failure or congested link
  - Health Tracer facilitates infrastructure resiliency at the hardware and software layer to increase overall service availability
  - Path Tracer monitors and detects issues with all paths in an active-active Layer 2 or Layer 3 ECMP network
  - LANZ offers proactive congestion management and notification by providing visibility into real-time queue depth analysis and streaming
  - EOS CloudVision provides visibility and troubleshooting for underlay and overlay networks
- DANZ TAP Aggregation/Advanced Mirroring/LANZ
  - Provides advanced traffic monitoring, including sFlow
  - Facilitates precision filtering and flow analysis with timestamps
  - Captures all 10/40/100GbE network traffic for recording and analysis
  - Filtered mirroring to CPU enables local traffic analysis using TCPdump or other monitoring tools

**Open and Programmable**
- EOS SW Architecture – Strong Fundamentals
  - Enabler for resiliency, programmability, extensibility, automation, and scale
  - Standards-based protocols and designs with open APIs
  - Extensive Tools: Native Linux kernel, Python, eAPI, EOS SDK, DirectFlow/OpenFlow, AEM
  - vEOS for flexible lab, development, and certification use cases
- Open and Programmable
  - Custom Application Integration
  - Orchestration Tools
  - Big Data Analytics
  - DevOps / Network Services
  - SDN Controllers

**Open Framework for Custom or Third Party**
- Open for custom or third party integration

**Programmable Interfaces Allow Rapid Integration**
- Proven solutions with deployed examples

**Proven Solutions with Deployed Examples**
- Turnkey solution from Arista

**Turnkey Solution as Standalone on GitHub or as a Provisioning Services**
- A proven solution with deployed examples
- EOS Consulting Services
- OpenStack, VMware vCenter
- Splunk Enterprise, VMware Log Insight
- Puppet, Chef, Ansible, Ganglia, Nagios
- VMware NSX, Nuage VSP, Microsoft Windows Server

**Zero Touch Provisioning (ZTP/ZTR)**
- Automates provisioning of infrastructure using standard protocols and offers advanced customized scripting capabilities
- Reduces cost of deployment and speeds time to production for new services by reducing human errors
- DevOps Integration
  - Easily integrates into existing workflows with tools such as Puppet/Chef/Ansible

**Expert Advice and Implementation of Network-Focused DevOps**
- EOS Consulting Services
  - Expert advice and implementation of network-focused DevOps tools and methodologies designed to accelerate business agility
  - Onsite or remote EOS-focused development with a team of seasoned network software programmers

**Network Control Point for Integration**
- EOS CloudVision
  - Turnkey automation for zero touch provisioning and on-going configuration management
  - Compliance dashboard for security, audit, and patch management

**Visibility Across Physical and Virtual Network Infrastructure**
- Network control point for integration with multi-vendor controller and orchestration systems
- Turnkey automation for provisioning and ongoing change management
- Visibility across physical and virtual network infrastructure
<table>
<thead>
<tr>
<th>Product Line Overview</th>
<th>40GbE</th>
<th>10/40/100GbE Deep Buffer</th>
<th>Ultra-Low Latency</th>
<th>10/40GbE Uplinks</th>
<th>10GbBase-T</th>
<th>10GbBase-T</th>
<th>10/40GbE</th>
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<th>10/40/10GbE Spline™</th>
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<td>7050E</td>
<td>7100S</td>
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**UNIVERSAL CLOUD NETWORK**

- Scalable, standards-based universal cloud network designs with MLAG, ECMP, and VXLAN
- Network wide automation, provisioning, and visibility services with EOS CloudVision
- Single point of integration for both orchestration services and third party controllers

**EOS CloudVision** for Arista Universal Cloud Network Architecture

- L2 over Layer 3
- VXLAN

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