Arista Networks is the leader in building software driven cloud networks for today's datacenter, cloud and campus 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, and broad scripting support. Arista CloudVision® software extends the EOS state-based architecture to a network-wide scope with NetDB, a platform for workflow automation, workload orchestration, and advanced visibility. CloudVision's open framework leverages modern APIs and state streaming as the basis for cognitive analytics, including machine learning and artificial intelligence, helping to diagnose and remediate network issues across both wired and wireless networks.

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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 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 state-based architecture to a network-wide model for provisioning, orchestration, and telemetry
• Unified control point for third party overlay controllers, orchestration systems, and security platforms
• Consistent operations across a broad scope, including campus + datacenter and wired + wireless networks
<table>
<thead>
<tr>
<th>Product Line Overview</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Available Architecture</td>
<td>Any Work-X</td>
</tr>
<tr>
<td>Universal Cloud Networking</td>
<td>WCA</td>
</tr>
<tr>
<td>Any Cloud</td>
<td>WCBA</td>
</tr>
<tr>
<td>On Premises</td>
<td>Servers</td>
</tr>
</tbody>
</table>
Enabling wireless networks to learn, predict, protect, and progress, Arista’s Cognitive WiFi™ solution optimizes the wireless experience. Harnessing the power of the cloud, big data analytics, and automation, Cognitive WiFi augments network admin capacity with the power of intelligence, speed and accuracy. Through root cause analysis and proactive problem resolution options, Cognitive WiFi also reduces the mean-time-to-resolve problems, minimizing troubleshooting effort for the network.

### COGNITIVE WIFI

<table>
<thead>
<tr>
<th>Model Number</th>
<th>C-130</th>
<th>C-120</th>
<th>W-118</th>
<th>C-110</th>
<th>C-100</th>
<th>O-90</th>
<th>C-75</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Highest performance (voice, video, data), highest density. Persistent RF analysis by dedicated third radio</td>
<td>Very high performance, very high density WIPS-only sensor, Layer-7 Application visibility and control</td>
<td>High performance, medium density. Low-profile wall plate access point, support VLAN segmentation and passphrase</td>
<td>Most competitively priced 802.11ac/Wave 2 high density access point, ideal for low to medium density environments</td>
<td>Most competitively priced 802.11ac/Wave 2 access point, ideal for low to medium density environments</td>
<td>High performance, high density. Built for outdoor and rugged indoor environments</td>
<td>High performance, medium density. Best 802.11ac/Wave 1 access point with integrated RF analysis using standard power</td>
</tr>
<tr>
<td><strong>Use Case</strong></td>
<td>K-12, large enterprises, large box retail</td>
<td>K-12, distributed enterprises, guest services</td>
<td>Hospitality, dormitories, small footprint retail</td>
<td>K-12, SMB, guest services, retail</td>
<td>K-12, SMB, guest services</td>
<td>Stadiums, parks, warehouses, parking lots</td>
<td>K-12, SMB, guest services</td>
</tr>
<tr>
<td><strong>Radio Components</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ports</strong></td>
<td>2x Gigabit Ethernet</td>
<td>2x Gigabit Ethernet</td>
<td>2x Gigabit Ethernet</td>
<td>2x Gigabit Ethernet</td>
<td>2x Gigabit Ethernet</td>
<td>2x Gigabit Ethernet</td>
<td>2x Gigabit Ethernet</td>
</tr>
<tr>
<td><strong>Max Data Rate</strong></td>
<td>1.7 Gbps / 800 Mbps</td>
<td>1.7 Gbps / 800 Mbps</td>
<td>867 Mbps / 300 Mbps</td>
<td>867 Mbps / 300 Mbps</td>
<td>867 Mbps / 300 Mbps</td>
<td>1.3 Gbps / 450 Mbps</td>
<td>1.3 Gbps / 450 Mbps</td>
</tr>
<tr>
<td><strong>Spatial Streams</strong></td>
<td>4x4:4 MU-MIMO</td>
<td>4x4:4 MU-MIMO</td>
<td>2x2:2 MIMO</td>
<td>2x2:2 MIMO</td>
<td>2x2:2 MIMO</td>
<td>3x3:3 MIMO</td>
<td>3x3:3 MIMO</td>
</tr>
<tr>
<td><strong>Channel Width</strong></td>
<td>20/40/80/80+80 MHz</td>
<td>20/40/80/80+80 MHz</td>
<td>20/40/80 MHz</td>
<td>20/40/80 MHz</td>
<td>20/40/80 MHz</td>
<td>20/40/80 MHz</td>
<td>20/40/80 MHz</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>802.3at</td>
<td>802.3at</td>
<td>802.3at</td>
<td>802.3at</td>
<td>802.3at</td>
<td>802.3at</td>
<td>802.3at</td>
</tr>
<tr>
<td><strong>WIPS</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Mesh</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>External Antenna Support</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes**</td>
<td>Yes**</td>
<td>Yes**</td>
</tr>
<tr>
<td><strong>Data sheets</strong></td>
<td>C-130</td>
<td>C-120</td>
<td>W-118</td>
<td>C-110</td>
<td>C-100</td>
<td>O-90</td>
<td>C-75</td>
</tr>
</tbody>
</table>

**C-75 and O-90 have sibling models (C-75-E and O-90-E) that support external antennas**

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