


SDN Fx Healthcare



Avaya SDN Fx Healthcare offers a unique security and inventory management solution for medical devices and enables healthcare organizations to:

- Easily connect and segment medical devices, apps and networking traffic to radically improve security and protect against vulnerabilities
- Simplify and speed up device onboarding, mobility and management
- Automate inventory management
- Improve efficiency by enabling flow monitoring and control

Ethernet Routing Switch 5900 Series




- New family of fabric-enabled, premium Gigabit Ethernet stackable switches
- Designed for campus networks and enterprise wiring closets
- 4 x SFP+ (1G or 10G) independent ports per unit, not shared
- MACSec-ready
- IEEE 802.3at PoE+ support
- Supports up to 8 units or up to 416 ports in a stacked configuration
- Field replaceable power supplies and fans
- Front to back or back to front cooling options

Model	Description	Stacking Bandwidth	10/100/1000 Mbps ports	10/100/1000 Mbps PoE+ ports	10/100/1000 Mbps PoE ports	10 Gbps ports
5928GTS	Stackable Ethernet switch with 24x1G & 4x10G Fiber ports	42 Gbps	24 RJ45	-	-	4 SFP+
5928GTS-PWR+	Stackable Ethernet switch with 24x1G PoE+ & 4x10G Fiber ports	42 Gbps	-	24 RJ45	-	4 SFP+
5952GTS	Stackable Ethernet switch with 48x1G & 4x10G Fiber ports	42 Gbps	48 RJ45	-	-	4 SFP+
5952GTS-PWR+	Stackable Ethernet switch with 48x1G PoE+ & 4x10G Fiber ports	42 Gbps	-	48 RJ45	-	4 SFP+
5928GTS-UPWR+	Stackable Ethernet Switch with 24x1000G PoE+ & 4x10G Fiber ports	42 Gbps	-	-	24 RJ45	4 SFP+

1/100 speeds supported

Ethernet Routing Switch 4000 Series

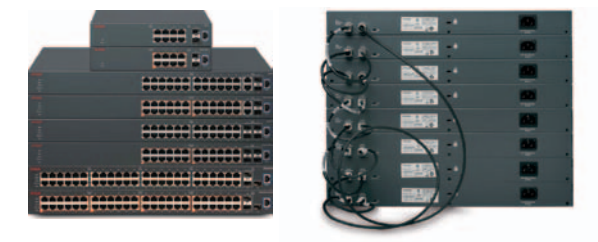


- For enterprise wiring closets, campuses and large branches
- Up to 8 units can be stacked; up to 400 GE/FE ports and 16 10GE ports with a max. stacking capacity of 384 Gbps
- Dynamic IP Routing capabilities campuses
- Supports PoE+ and SFP+
- Supports Avaya Fabric Connect (Shortest Path Bridging) as well as Fabric Attach auto-provisioning
- Field replaceable, redundant power supplies

Model	Description	Stacking Bandwidth	10/100/1000 Mbps ports	10/100/1000 Mbps PoE+ ports	1 Gbps ports	10 Gbps ports
4826GTS	Stackable Ethernet switch with 24x1G Copper, 2x1G Fiber & 2x10G Fiber ports	48 Gbps	24 RJ45	-	2 SFP	2 SFP+
4826GTS-PWR+	Stackable Ethernet switch with 24x1G PoE+, 2x1G Fiber & 2x10G Fiber ports	48 Gbps	-	24 RJ45	2 SFP	2 SFP+
4850GTS	Stackable Ethernet switch with 48x1G Copper, 2x1G Fiber & 2x10G Fiber ports	48 Gbps	48 RJ45	-	2 SFP	2 SFP+
4850GTS-PWR+	Stackable Ethernet switch with 48x1G PoE+, 2x1G Fiber & 2x10G Fiber ports	48 Gbps	-	48 RJ45	2 SFP	2 SFP+
4926GTS	Stackable Ethernet Switch with 24x1G Copper & 2x10G Fiber ports	52 Gbps	24 RJ45	-	-	2SFP+
4926GTS-PWR+	Stackable Ethernet Switch with 24x1G Copper PoE+ & 2x10G Fiber ports	52 Gbps	-	24 RJ45	-	2SFP+
4950GTS	Stackable Ethernet Switch with 48x1G Copper & 2x10G Fiber Ports	52 Gbps	48 RJ45	-	-	2SFP+
4950GTS-PWR+	Stackable Ethernet Switch with 48x1G Copper PoE+ & 2x10G Fiber Ports	52 Gbps	-	48 RJ45	-	2SFP+

Shared with 10/100/1000M ports
1/100 speeds supported

Ethernet Routing Switch 3500 Series



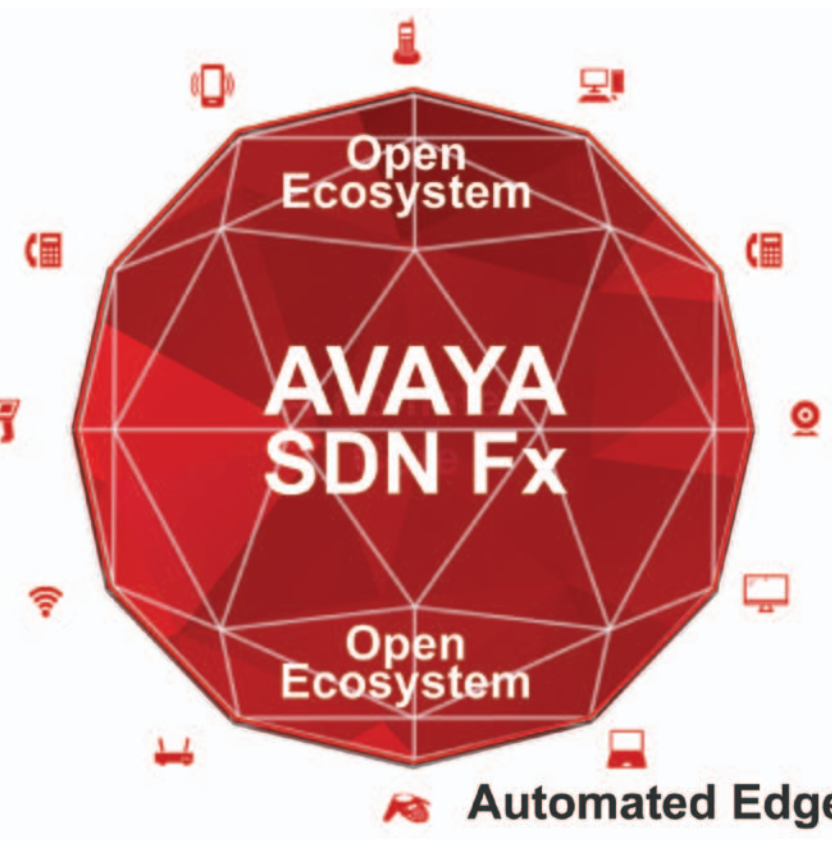
- For SMEs, mid-market and small branch offices; includes Avaya IP Office Quick Start utility
- Fanless models for noise sensitive environments
- Supports PoE+
- Up to 8 units (24 or 48 port units) can be stacked; up to 384 GE ports with a max. stacking capacity of 80 Gbps
- Local and static routing

Model	Description	Stacking Bandwidth	10/100 Mbps ports	10/100 Mbps PoE+ ports	10/100/1000 Mbps ports	10/100/1000 Mbps PoE+ ports	1 Gbps ports	2.5G Gbps ports	10 Gbps ports
3526T	Fanless Stackable Ethernet switch with 24x1G Copper & 2x10G PoE+ ports	10 Gbps	24 RJ45	-	2 RJ45	-	2 SFP	2 SFP	-
3526T-PWR+	Stackable Ethernet switch with 24x1G PoE+ & 2x10G PoE+ ports	10 Gbps	-	24 RJ45	2 RJ45	-	2 SFP	2 SFP	-
3550T	Stackable Ethernet switch with 48x1G Copper & 2x10G PoE+ ports	10 Gbps	48 RJ45	-	2 RJ45	-	2 SFP	2 SFP	-
3550T-PWR+	Stackable Ethernet switch with 48x1G PoE+ & 2x10G PoE+ ports	10 Gbps	-	48 RJ45	2 RJ45	-	2 SFP	2 SFP	-
3510GT	Fanless Stackable Ethernet Switch with 8x10G PoE+ & 2x10G Fiber ports	-	-	-	8 RJ45	-	2 SFP	-	-
3510GT-PWR+	Stackable Ethernet switch with 8x10G PoE+ & 2x10G Fiber ports	-	-	-	-	8 RJ45	2 SFP	-	-
3524GT	Stackable Ethernet switch with 24x1G Copper & 2x10G PoE+ ports	10 Gbps	-	-	20 + 4 RJ45	-	4 SFP	2 SFP	-
3524GT-PWR+	Stackable Ethernet switch with 24x1G PoE+ & 2x10G PoE+ ports	10 Gbps	-	-	20 + 4 RJ45	-	4 SFP	2 SFP	-
3548GTS	Stackable Ethernet switch with 48x1G Copper & 2x10G PoE+ ports	10 Gbps	-	-	48 + 2 RJ45	-	2 SFP	2 SFP	1 SFP+
3548GTS-PWR+	Stackable Ethernet switch with 48x1G PoE+ & 2x10G PoE+ ports	10 Gbps	-	-	48 + 2 RJ45	-	2 SFP	2 SFP	1 SFP+

Shared/Combination ports 1/100 speeds supported

Avaya SDN Fx Architecture

A Fabric-Based SDN Model for Simplicity Everywhere



AUTOMATED CORE
Single, network-wide Ethernet Fabric

OPEN ECOSYSTEM
Open Source integration for automation and programmability

AUTOMATED EDGE (IoT)
Secure automated connectivity of users and IoT devices to their applications

Avaya Fabric Connect

- Automation of the network core based on Avaya's extended Shortest Path Bridging, enabling secure zoning of networks
- Full breadth of network services including: Layer 2 virtualized services, Layer 3 virtualized services (with multiple Virtual Routing and Forwarding instances), and fully integrated and optimized IP Routing and Multicast services (without any protocol overlays)

Avaya Fabric Extend

- Enables network-wide extension of Avaya Fabric Connect over private and service provider IP infrastructures for third party interworking and multi-site connectivity

Avaya Fabric Attach

- Enables automation at the network edge, using a standards-based approach for easily and securely connecting a broad range of user and IoT devices

Avaya Fabric Orchestrator

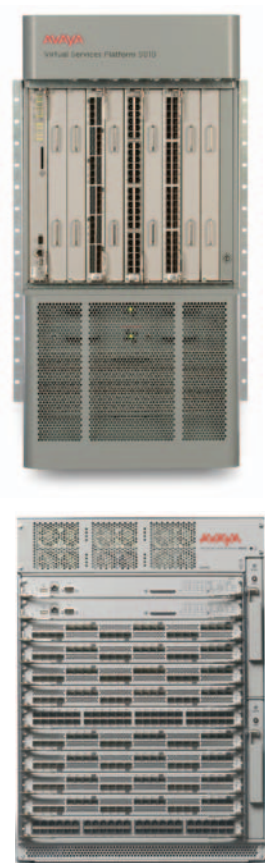
- Integrated management and SDN Controller* for managing and orchestrating the Ethernet Fabric and SDN-enabled devices. Will include Open API's as well as OpenDaylight and Open Stack integration

Open Networking Adapter

- A unique card-deck-size adapter that plugs into devices and automatically associates with an SDN controller and automatically places it into a tailored enterprise-wide virtual network

*future release

Virtual Services Platform 9000




- Scalable platform for growing infrastructures: architected to scale to multiple Tbps
- High availability through fully redundant hardware
 - Load-sharing Switch Fabrics
 - Redundant hot-swappable power supplies
 - Dedicated internal control network
- High port density
 - Up to 120 40GbE/chassis, 360/rack
 - Up to 480 10GbE/chassis, 1440/rack
 - Up to 480 1GbE/chassis, 1440/rack
- Efficient
 - Optimized power consumption
- Network virtualization
 - Avaya Fabric Connect extended Shortest Path Bridging
 - Virtual Routing & Forwarding (VRF)
- IPv4/6 Routing in Hardware

Model	Description	10/100/1000 Mbps ports	1 Gbps ports	10 Gbps ports	40 Gbps ports
9090 SF	Switch Fabric Module for 9012 Chassis	-	-	-	-
9095 SF	Switch Fabric Module for 9010 Chassis	-	-	-	-
9048GT	48 port 1G Copper I/O Module	48 RJ45	-	-	-
9048GB	48 port 1G Fiber I/O Module	-	48 SFP	-	-
9024XL	24 port 10G Fiber I/O Module	-	-	24 SFP+	-
9048XS-2	48 port 10G Fiber Gen 2 I/O Module	-	-	48 SFP+ ²	-
9012QG-2	12 port 40G Fiber Gen 2 I/O Module	-	-	-	12 QSFP+

1/100 speeds supported *MACsec ready

Virtual Services Platform 8000



- High-performance 10/40 Gigabit Ethernet Switch family
- Efficient compact form-factor that reduces power and footprint consumption
- Supports both conventional IP Routing and/or Fabric-based networking deployments
- VSP 8200 offers a fixed 80 ports of 10 Gigabit Ethernet & 4 ports of 40 Gigabit Ethernet
- VSP 8400 offers modularity with support for up to 4 Ethernet Switch Modules - Supported ESMs are shown in the table below.
- Front to Back airflow only; One power supply included, optional internal redundant PS available

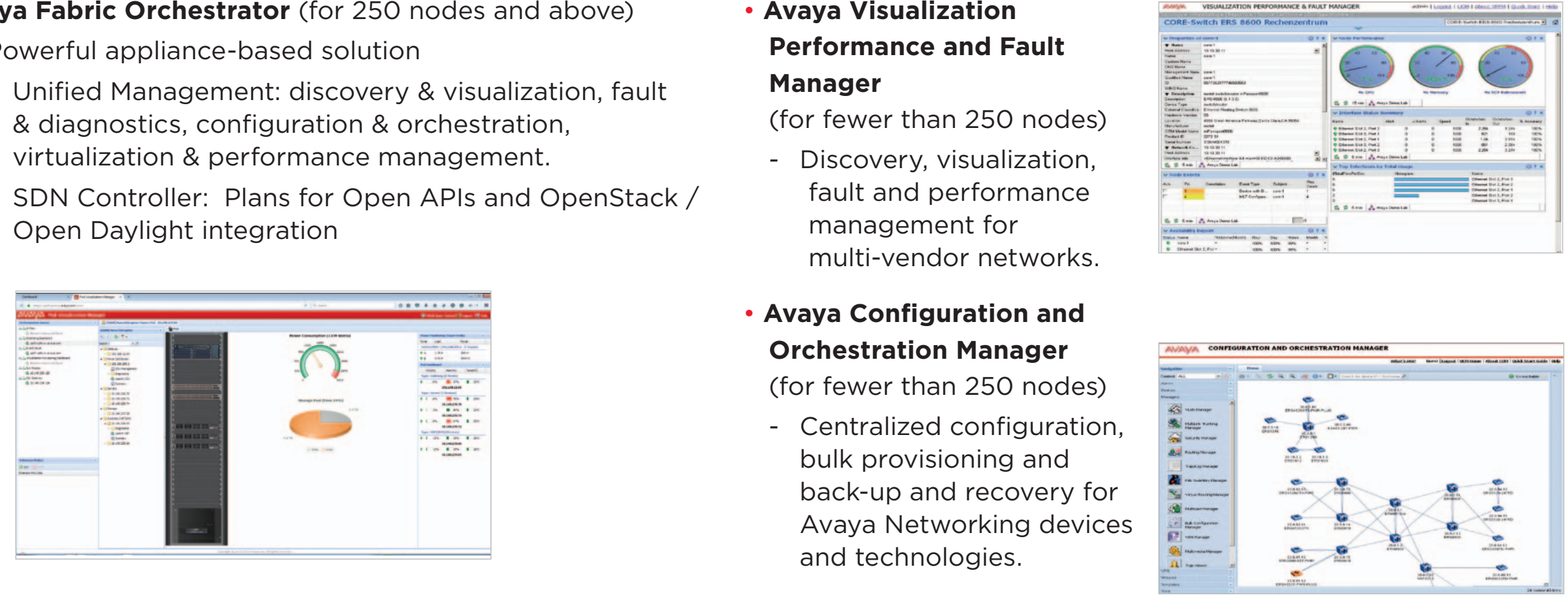
Model	Description	1 Gbps ports	10 Gbps ports	40 Gbps ports
8284XSQ ¹	Fixed Compact Form Factor Core Switch with 80x10G Fiber & 4x40G Fiber ports	-	80 SFP+ ³	4 QSFP+
8404	VSP 8400 Modular Compact Form Factor Chassis - Core/Spine Switch with 4 I/O Ethernet Switch Module (ESM) slots	-	-	-
8024XT ¹	24 port 10G Copper Ethernet Switch Module	-	24 RJ45 ⁴	-
8024XS ¹	24 port 10G Fiber Ethernet Switch Module	-	24 SFP+ ²	-
8418XSQ ^{1,2}	16x10G Fiber & 2x40G Fiber port combination Ethernet Switch Module	-	16 SFP+ ²	2 QSFP+
8408QGQ ^{1,2}	8 port 40G Fiber Ethernet Switch Module	-	-	8 QSFP+ ²
8424GS	24 port 100M/1G Fiber Ethernet Switch Module	24 SFP	-	-
8424GT	24 port 10/100/1000M Copper Ethernet Switch Module	24 RJ45	-	-
8418XTQ ^{1,2}	16x10G Copper & 2x40G Fiber port combination Ethernet Switch Module	-	16 RJ45 ²	2 QSFP+

*MACsec supported on 10G ports, *MACsec supported on 40G Channelized (10G) sub-ports, 1/100 speeds supported, 100M/10/100 speeds supported
1/6 ports supported, 2 reserved for future use

Network Management

Avaya offers advanced management capabilities that bring visibility, automation and enhanced troubleshooting to your network. Eliminate human error, enable new services faster and reduce operational costs with these powerful solutions.

- **Avaya Fabric Orchestrator** (for 250 nodes and above)
 - Powerful appliance-based solution
 - Unified Management: discovery & visualization, fault & diagnostics, configuration & orchestration, virtualization & performance management.
 - SDN Controller: Plans for Open APIs and OpenStack / Open Daylight integration
- **Avaya Visualization Performance and Fault Manager** (for fewer than 250 nodes)
 - Discovery, visualization, fault and performance management for multi-vendor networks.
- **Avaya Configuration and Orchestration Manager** (for fewer than 250 nodes)
 - Centralized configuration, bulk provisioning and back-up and recovery for Avaya Networking devices and technologies.



Avaya Fabric Networking delivers a solution that can result in:

11x FASTER
Implementation Time

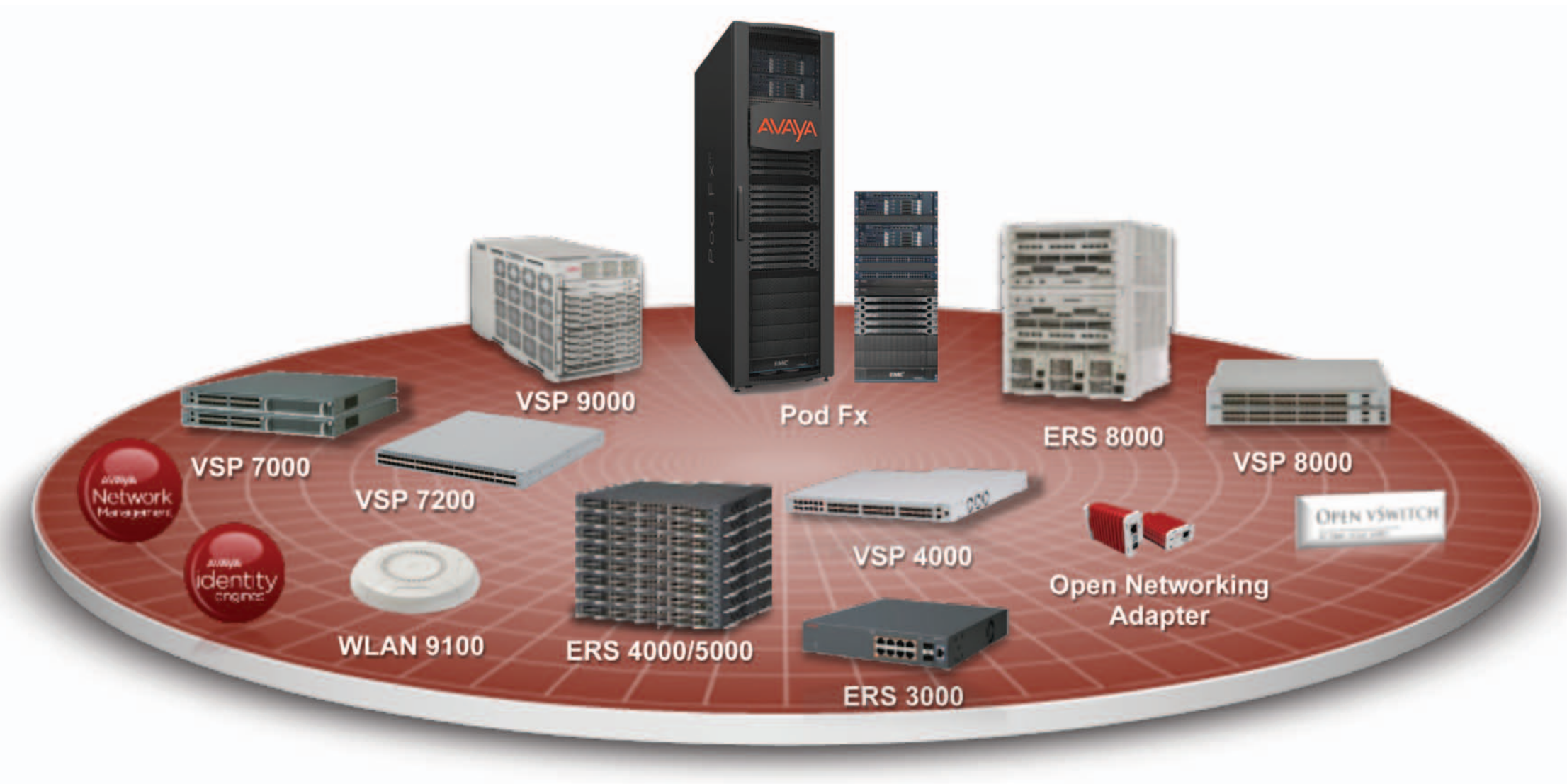
7x FASTER
Configuration Time

7x FASTER
Troubleshooting Time


2,553x FASTER
Failover Time

100% IMPROVEMENT
Outages Due to Human Error

Accelerate your Business • Enrich your Applications • Enable Users and Devices



Virtual Services Platform 7200 Series




- High-density 10 Gigabit ports for Server connectivity or midsize core environments
- Flexible 40 Gigabit ports for uplink and DToR connectivity
- Non-blocking, wire-speed switching architecture
- Integrated design that is optimized for low latency
- Feature-rich support for Standards-based VLAN, MLT, STP, and SPB technologies

Model	Description	10 Gbps ports	40 Gbps ports
7254XTQ ^{1,4}	Fixed Compact Form Factor ToR/Leaf switch with 48x10G Copper & 6x40G Fiber ports	48 RJ45 ²	6 QSFP+
7254XSQ ⁴	Fixed Compact Form Factor ToR/Leaf switch with 48x10G Fiber & 6x40G Fiber ports	48 SFP+ ²	6 QSFP+
7254XTQ ¹	Port Licensed Fixed Compact Form Factor ToR/Leaf switch with 24x10G Copper & 4x40G Fiber ports enabled. The remaining 24x10G Copper & 2x40G Fiber ports can be enabled with optional Port License.	48 RJ45 ²	6 QSFP+
7254XSQ ⁴	Port Licensed Fixed Compact Form Factor ToR/Leaf switch with 24x10G Copper & 4x40G Fiber ports enabled. The remaining 24x10G Fiber & 2x40G Fiber ports can be enabled with optional Port License.	48 SFP+ ²	6 QSFP+

*MACsec supported on copper 10G ports only on 7454XTQ
100M/1G/10G speeds supported
1/100 speeds supported
1/ front to back air-flow options available

Virtual Services Platform 4000




- Industry's first "fabric-enabled" multiservice/multitenant edge device
- Extends Avaya Fabric Connect to the Campus, MAN, WAN edge
- Full SPBm edge platform supporting IP shortcuts, L3 VSNs and L2 VSNs
- Cost effective L2, L3 Virtualization for the mid market
- Some models support PoE+
- One power supply included, optional internal redundant PS available

Model	Description	10/100/1000 Mbps ports	10/100/1000 Mbps PoE+ ports	1 Gbps ports	10 Gbps ports
4450GSX-PWR+	Small Core/Fabric Edge switch with 12x1G PoE+, 36x1G Fiber & 2x10G Fiber ports	-	12 RJ45	36 SFP	2 SFP+ ^{1,2}
4450GTX-HT-PWR+	Small Core/Fabric Edge switch with 48x1G PoE+, 2x1G Fiber & 2x10G Fiber ports - Temperature Hardened	-	48 RJ45	2 SFP ²	2 SFP+ ^{1,2}
4850GTS	Small Core/Fabric Edge switch with 48x1G Copper, 2x1G Fiber & 2x10G Fiber ports	48 RJ45	-	2 SFP ²	2 SFP+ ^{1,2}
4850GTS-PWR+	Small Core/Fabric Edge switch with 48x1G PoE+, 2x1G Fiber & 2x10G Fiber ports	-	48 RJ45	2 SFP ²	2 SFP+ ^{1,2}

*MACsec supported on 10G ports
1/Shared with 10/100/1000M ports
1/100 speeds supported

Wireless LAN 9100 Series




- Next Generation 802.11ac Wireless LAN solution with cost effective, two-tier architecture (distributed controller in every Access Point (AP))
- Granular Visibility and Control for 1400+ applications
- Software Upgradeable from 802.11n to 802.11ac
- Intuitive management for simplified deployments
- Advanced Radio Frequency (RF) Management
- 70% more bandwidth per AP; 4 radio APs for high density environments
- Software Programmable Radios to optimize WLAN to end user environment
- Plug and Play APs (Avaya Fabric to the wireless edge)

Model	Description
WAP911200-E6	WLAN 9112 Wall mount AP/switch, 802.11ac, Dual Radio 2x2, for hotel rooms, dormitories, offices and similar locations
WAP911400-E6	WLAN 9114 Enterprise Class, cost effective AP, 802.11ac, Dual Radio 2x2 MIMO, Omni-Directional Antenna, Integrated Wireless Controller
WAP912200-E6	WLAN 9122 Indoor AP, 802.11n (Upgradable to 11ac), Dual Radio 2x2 MIMO, Omni-Directional Antenna, Integrated Wireless Controller
WAP912300-E6	WLAN 9123 Indoor AP, 802.11n (Upgradable to 11ac), Dual Radio 3x3 MIMO, Omni-Directional Antenna, Integrated Wireless Controller
WAP913200-E6	WLAN 9132 Indoor AP, 802.11ac, Dual Radio 2x2 MIMO, Omni-Directional Antenna, Integrated Wireless Controller
WAE913200-E6	WLAN 9132 Plenum Rated Indoor AP, 802.11ac, Dual Radio 2x2 MIMO, Integrated Wireless Controller
WAP913300-E6	WLAN 9133 Indoor AP, 802.11ac, Dual Radio 3x3 MIMO, Omni-Directional Antenna, Integrated Wireless Controller
WAP914400-E6	WLAN 9144 Indoor AP, 802.11ac Wave 2, Dual Radio 4x4 MU-MIMO, Omni-Directional Antenna, Integrated Wireless Controller
WAP917200-E6	WLAN 9172 Indoor 4-Radio AP, 802.11ac, 2x2 MIMO, Integrated Wireless Controller
WAP917300-E6	WLAN 9173 Indoor 4-Radio AP, 802.11ac, 3x3 MIMO, Integrated Wireless Controller
WAO912200-E6	WLAN 9122 Outdoor AP, 802.11n, Dual Radio 2x2 MIMO, Omni-Directional Antenna, Integrated Wireless Controller
WAO913200-E6	WLAN 9132 Outdoor AP, 802.11ac, Dual Radio 2x2 MIMO, Integrated Wireless Controller
WOS9100E	WLAN Orchestration System For WLAN 9100 Series, Software Base Only, 10 AP Licenses, includes Identity Engines Lite

Secure Access and Edge Automation

- Secure Access and Edge Automation
 - Centralized, enterprise-wide user and device authentication and service authorization
 - Centralized Fabric Attach Policy Server automating FA Clients network attachment
- Secure Guest Access
 - In less than 10 seconds, IT Hands-free and full auditable guest access
 - Tunneling Server
 - Social Media Login
- BYOD
 - Embrace BYOD securely with device fingerprinting and auto-registration
 - MDM integration with Citrix XenMobile and VMware AirWatch
 - Facilitates compliance with legal requirements
- Analytics
 - Visibility into who uses network service, when, where and with which device
- Integration with existing directory services (Microsoft AD, Novell eDirectory, Sun Directory, Oracle Internet Directory,LDAP, Kerberos, RSA SecurID, token-based services)



AVAYA

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