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Ethernet Routing Switch 5000 Series

The Avaya Ethernet Routing Switch 5000 series is a set of premium Stackable LAN Switches providing the resiliency, security and convergence readiness required for today's high-end Wiring Closets, high-capacity Data Centers and smaller Core environments.

Ethernet Routing Switch 5500 Series

Ethernet Routing Switch 5600 Series

Avaya's industry-leading resilient Stackable Chassis provides high-availability for delay-sensitive and business-critical data and voice applications. Up to eight Ethernet Routing Switch 5000 units can form a resilient Stacked solution, manageable as a single entity, of up to 400 ports, with maximized uptime even if an individual Switch within the Stack should fail.

Scalable, resilient and flexible Ethernet Switching

Recognizing that networking requirements vary from business to business – with differing needs at the Edge, Core and Distribution layer, Avaya offers the highly flexible Ethernet Routing Switch 5000 Series (ERS 5000); encompassing the original 5500 models and the new 5600 models, combining to offer a versatile portfolio of ten models. This provides Enterprises the ability to choose the model that best fits their networking requirements (see table below for details). The ERS 5000 Series features 100% cross-product stacking compatibility.

The original ERS 5500 models feature a stacking capacity of 80 Gbps per Switch and up to 640 Gbps for a full Stack of eight Switches, and the new ERS 5600 models introduce an enhanced stacking capacity of 144 Gbps per Switch and 1.152 Tbps for a full Stack. This is unprecedented

Model	Link and uplink ports
ERS 5510-24T	24 x 10/100/1000, including 2 x Combo 1000BASE-T/SFP
ERS 5510-48T	48 x 10/100/1000, including 2 x Combo 1000BASE-T/SFP
ERS 5520-24T-PWR	24 x 10/100/1000 with Power-over-Ethernet, including 4 x Combo 1000BASE-T/SFP
ERS 5520-48T-PWR	48 x 10/100/1000 with Power-over-Ethernet, including 4 x Combo 1000BASE-T/SFP
ERS 5530-24TFD	24 x 10/100/1000, including 12 x Combo 1000BASE-T/SFP, plus 2 x 10GBASE-XFP
ERS 5632FD	24 x 100/1000BASE-SFP plus 8 x 10GBASE-XFP
ERS 5650TD	48 x 10/100/1000 plus 2 x 10GBASE-XFP
ERS 5650TD-PWR	48 x 10/100/1000 with Power-over-Ethernet plus 2 x 10GBASE-XFP
ERS 5698-TFD	96 x 10/100/1000, including 6 x Combo 1000BASE-T or 100/1000BASE-SFP, plus 2 x 10GBASE-XFP
ERS 5698TFD-PWR	96 x 10/100/1000 with Power-over-Ethernet, including 6 x Combo 1000BASE-T or 100/1000BASE-SFP, plus 2 x 10GBASE-XFP

in the industry and ensures optimal performance for delay-sensitive application traffic traversing the Stack.

ERS 5600 Switches can be Stacked with one another or with any Ethernet Routing Switch 5500 unit, and when connected to an adjacent ERS 5500, the ERS 5600 automatically adjusts to the ERS 5500's stacking bandwidth of 80 Gbps. This enhanced flexibility provides the opportunity to mix and match port configurations based on operations needs, while preserving existing ERS 5500 investments.

ERS 5000 models come with two in-built auto-sensing stacking connections — implementing sophisticated queuing — for simple, cost-effective and efficient stacking. This design frees uplink ports for dedicated connectivity to the backbone. The ERS 5000's high-performance architecture promotes optimized throughput across ports, uplinks and the virtual backplane.

Ethernet Routing Switch 5000 deployment scenarios

The ERS 5000 Series is a flexible solution that can be deployed in a variety of Enterprise environments. These include:

High-density Wiring Closet

With its non-blocking design, high-density GbE and integrated 10GbE port options, the Ethernet Routing Switch 5000 Series is perfectly suited to providing the high-performance and highly available connectivity solution in the Wiring Closet. Up to eight ERS 5000 Switches can be combined into a single Stack with each ERS 5600 unit providing two 10GbE XFP ports for high-capacity uplinks to the Core or Aggregation layers of the network. ERS 5698 models provide even greater cost, space and energy efficiency with their

AVAYA'S INNOVATIVE, RESILIENT 'STACKABLE CHASSIS' ARCHITECTURE

Avaya has continued to evolve and perfect its Enterprise Stackable portfolio into a truly resilient, high-performance Stackable solution. Avaya's Ethernet Routing Switch 2500, 4500, and 5500 and 5600 product lines all incorporate key capabilities designed to deliver a 'Stackable Chassis' solution, including:

- **Ease of growth/management:** Extending capacity is easy; simply cable a new unit into the Stack, and the Stack configuration is automatically updated. The Stack acts as a single entity that can be managed via a single IP Address.
- **Scalable performance:** The high performance design of Avaya's Stackable Switches along with their high-speed stack connections (up to 144 Gbps per Switch/1.152 Tbps per Stack) helps to ensure that the Stack scales proportionally as each new unit is added.
- **Optimal path forwarding:** A bidirectional, multi-path forwarding algorithm between Switches can ensure that the shortest, most optimal path is chosen for each flow of traffic. This design offers a clear performance advantage over the basic logical ring or token approaches used by other vendors.
- **No single point-of-failure:** Stack operation is unaffected by the failure of any unit in the Stack. Each unit's independent switching fabric along with distributed, redundant power ensures continuous operation of the Stack. Individual Stack units can easily be replaced — i.e., a 'virtual hot-swap' capability — without impacting Stack operations (a feature known as 'Auto-Unit Replacement').
- **Switch Clustering:** Switch Clustering (based on Avaya's SMLT technology) can be enabled on the ERS 5000 Series to enhance overall resiliency of the Stack solution, providing load-balancing and sub-second failover.

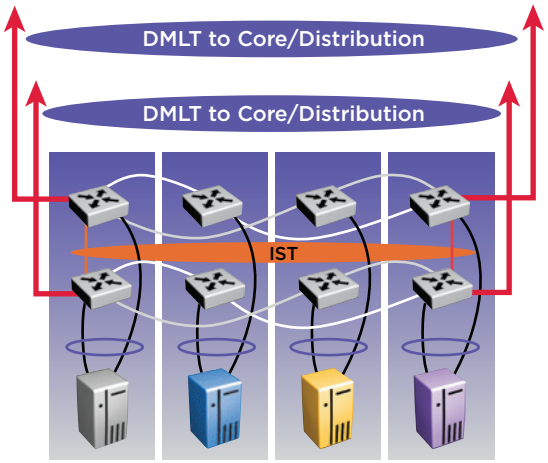

Figure 1. Ethernet Routing Switch 5000 in Horizontal Stacking/Data Center application

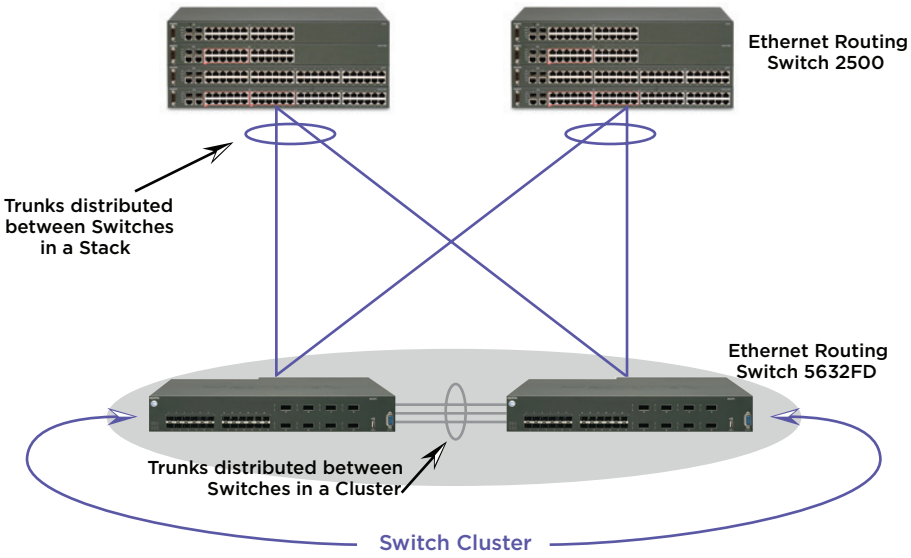

Figure 2. Ethernet Routing Switch 5000 Series in a small Core application, with ERS 2500 or 4500 Series Switches at the Edge delivering resiliency and efficiency

ultra-dense Gigabit-to-the-Desktop capacity and the added flexibility of up to 6 SFP ports per Switch for long-reach fiber optic connections. With the ability to support Power-over-Ethernet (PoE) across all its ports, the ERS 5000 Series is an effective and flexible Wiring Closet/Edge solution in support of desktop and powered devices.

High-performance Data Center Edge

The high-performance, low-latency and high-availability requirements of the modern Data Center make the ERS 5000 Series a perfect solution for Server access and consolidation. By utilizing Avaya's innovative 'Horizontal Stacking' capability – a Switch at the top of each Server rack, Stacked 'Horizontally' – the ERS 5000 Series can support cost-effective, high-density Server connections. Up to 400 Gigabit ports and multiple 10GbE uplinks per Stack can be deployed in this manner (see Figure 1).

Avaya's Switch Cluster solution can further enhance overall resiliency through the addition of a second Horizontally-Stacked 'Top-of-Rack' series of Switches. Connected Servers can then be 'dual-homed' to separate Stacks of ERS 5000 Switches, which in turn appear as a single, logical Switch to the rest of the network. This enables active-active connections, load-balancing and sub-second failover across the Stacks. These features make the ERS 5000 Series a truly cost-effective Data Center solution that combines always-on resiliency with high-performance connectivity.

Highly scalable small Core

The ERS 5000 Series can also serve as a high-performing, feature-rich small Core solution. With high-density 10GbE and SFP ports (up to 64 10GbE and 192 SFP ports per Stack), the ERS 5530-24TFD and 5632FD models are particularly well-suited to small Core applications. Coupled with dynamic routing protocol support (RIP/OSPF) – and field-replaceable, redundant power in the 5600 models — the ERS 5000 Series can provide low-cost, resilient small Core solutions.

The ERS 5000 Series can further act as a Switch Cluster supporting other ERS 2500, 4500 or third-party Access Switches (see Figure 2) using Avaya's Switch Clustering technology (SMLT). ERS 5000s in this configuration can provide up to 800 ports and over 2.3 Terabits of always-on performance – while enabling full use of all Switches and links across the network.

A comprehensive suite of Layer 3 Routing protocols helps ensure that the ERS 5000 Series can be a truly effective Core Switch for the smaller network. IPv4 has been a

NEW FEATURES FOR THE v6.2 RELEASE

The following features and enhancements highlight those added to the ERS 5000 Series capabilities with the release of v6.2 Operating System software:

- Avaya Energy Saver, including the pre-defined Efficiency Mode for simplified implementation
- IPv6 Routing, introducing support for Static Routing and IPv6 Auto-Address Assignment
- Security enhancements including the new 802.1X MHMA MultiVLAN feature that supports multiple RADIUS-assigned VLANs per port
- A new Lossless Mode for QoS Buffering that leverages 802.3x Flow Control
- Additional QoS enhancements to Traffic Profile Metering, DSCP Mutation, and Egress Queue Shaping
- Enhanced interoperability between Auto-QoS and both 802.1 MED and Avaya Auto-Detect & Auto-Configuration
- Scaling enhancement for 802.1X EAP, VLANs, IP Routing, and IP Multicast
- Additional SFP support plus numerous incremental operational features and enhancements

Avaya's Industry-leading resilient 'FAST' architecture delivers the high-availability crucial for delay-sensitive and business-critical data, voice and video.

long-standing feature and the latest release introduces support for IPv6 with Static Routes, Auto-Address Assignment, and IPv4/IPv6 Tunnelling. IP Multicast support has been enhanced with PIM-SM capability extended to a Stacked configuration, and full IGMPv3 support.

Convergence-ready capabilities

Power-over-Ethernet

The ERS 5520-24T-PWR, 5520-48T-PWR, 5650TD-PWR and 5698TFD-PWR models provide Standards-based PoE and are designed to power devices such as IP Phones, Wireless Access Points, networked CCTV cameras, security and lighting devices, and access control devices such as badge readers. Full interoperability with all Standards-based equipment means these Switches have the flexibility to power devices from any vendors; ERS 5000 Switches can supply up to 15.4 watts per port, as defined in the IEEE 802.3af Standard.

Link Layer Discovery Protocol and Auto Detection/Auto Configuration

The ERS 5000 Series combines the functionality of the Link Layer Discovery Protocol (LLDP) and Auto Detection/Auto Configuration (ADAC) to detect and configure IP Phones. The implementation includes the Location Type-Length-Value (TLV) which provides a mechanism to enable Emergency Location Services for IP Phones (for example, 'Enhanced 911').

Auto-discovery is extended with Media Endpoint Discovery (LLDP-MED) to automatically perform power and VLAN assignments for enabled devices. Avaya further extends the use of this protocol by coupling it with the ability to automatically configure Quality-of-Service (QoS) settings and VLAN membership when an IP Phone is detected. This can help to ensure fast and easy IP Phone deployments across the network.

Automatic QoS

With Automatic QoS, an ERS 5000 Series Switch supporting a Unified Communications solution automatically recognizes the special, private Differentiated Service Code Point (DSCP) values configurable for these applications, and optimizes the management of egress queues. Without this automated functionality, operators would need to have detailed knowledge of how QoS works, and also the private DSCP values, to attempt manual configuration for optimized queue operation. This feature can help to ensure that the process is automated and optimized, and protects against mis-configuration.

Dynamic and Granular QoS

The ERS 5000 Series features advanced ASIC designs enabling fined-grained control of the QoS Egress Queues. This has benefits in deployments where changes to queue settings need to be made in order to optimize how the network supports specific application behavior. Being able to make on-the-fly changes to queue management, without the need for a reset, dramatically enhances the practical effectiveness of the network. And ERS 5600 models further extend these capabilities by supporting granular Egress Queue Shaping, in addition to shaping at the port level.

Resilient operations – redundant power and auto-unit replacement

Field-replaceable Power Supplies

The ERS 5600 models support integrated AC or DC power supplies for improved redundancy and uptime. The 5632FD and 5650TD models support two and ERS 5698TFD models support three integrated, field-replaceable supplies. This power supply design offers not only N+1 power redundancy and/or supplementary PoE power, but also provides savings in valuable rack space and reduction in overall system, servicing and sparing costs.

The ERS 5500 models support the external redundant power supply 15 solution, providing a similar capability for power redundancy and/or supplementary PoE power, although requiring additional real estate within the rack.

Automatic Unit Replacement

The Ethernet Routing Switch 5000 Series supports Automatic Unit Replacement (AUR), a virtual hot-swap functionality that allows engineers to quickly and easily replace failed units in the Stack. When a unit is replaced, the configuration and software image are automatically synchronized with that saved by the Stack base unit for the failed Switch. This minimizes manual intervention as well as any interruption to neighboring users within the Stack.

The ERS 5000 Series also supports the ability to load a software image into the base unit of the Stack and have it automatically propagated to other Switches in the Stack; this further simplifies Stack management.

Security for safeguarding the network

Protecting the network against both external and increasingly prevalent internal attacks is a critical part of every IT manager's job. The ability to do this requires simple-to-manage, yet intelligent context-aware security solutions that not only look at the identity of the person logging in, but also at the device connecting into the network. This network access control approach helps to ensure that only authorized individuals and properly scanned/secured devices are allowed to join the network.

Comprehensive & flexible Access Control

Through use of IEEE's 802.1X-based EAP, a device's MAC Address, or via login credentials a Network Manager can determine which users will be granted access to specified resources. The ERS 5000 Series can also be used in conjunction with Avaya's innovative Identity Engines portfolio solution for advanced, Standards-based, policy-based and centralized authentication.

Network access control through 802.1X-based authentication

The ERS 5000 Series fully supports the IEEE 802.1X Extensible Authentication Protocol (EAP)-based security a features, which control access to the network based on User credentials. A User is required to 'login' to the network using a username/password, and a database is maintained on a centralized authentication server, for example RADIUS, which can itself proxy to other directory services such as LDAP and Active Directory. The ERS 5000 Series supports Single- and Multi-Host options, with numerous functionality extensions such as Guest VLAN, Non-EAP, Last RADIUS-assigned VLAN, Fail-Open VLAN, VLAN Names, and the new MultiVLAN option; delivering a highly versatile and readily-deployable solution.

AVAYA ENERGY SAVER

The Avaya Energy Saver solution aligns the consumption of energy to the use of devices and building occupancy. It manages the power that devices consume, "dimming" consumption during off-peak periods - much like a lighting control system - even turning off low-priority devices that are not needed after-hours. The energy usage profile of the typical enterprise means that there is great potential to deliver further incremental energy efficiencies - up to a further 20% - by intelligently pruning off-peak power consumption, all without the need for any hardware change or investment overhead. Avaya Energy Saver can be administered directly on individual Switches or, more commonly, centrally managed by the Enterprise Policy Manager component of Avaya Unified Communications Management.

Avaya offers a complete solution of energy-efficient equipment with the necessary tools to further align the energy consumption of the network with its genuine usage requirements. By combining the efficiencies embedded with the ERS 5000 Series products with intelligent management of the network via Energy Saver, Avaya achieves the highest levels of energy-efficiency possible.

The ERS 5000 Series also supports MAC Address-based security, which allows authentication of all access devices; network access is granted or denied via specific MAC Address identification. The ERS 5000 Series also supports a Guest VLAN capability.

Additionally, for Voice-over-Internet Protocol (VoIP) deployments where the PC connects to network through a VoIP handset, both the PC and the IP device are authenticated individually.

Directed attack protection

The ERS 5000 Series supports a set of security features designed to help protect against directed attacks. These include Dynamic Host Control Protocol (DHCP) Snooping, Dynamic Address Resolution Protocol Inspection, IP Source Guard and IGMP Snooping. Together, these help to protect against the most common snooping and man-in-the middle attacks that might otherwise compromise the network.

Simplified management

A Stack of ERS 5000 Switches can be managed as a single entity through one IP Address, simplifying network management.

The ERS 5000 Series offers the highest level of secure management with features including Secure Shell (SSH), IP Manager Lists, RADIUS and TACACS+ Authentication, Simple Network Management Protocol (SNMPv3), and Secure Network Access.

Dual image support

The ERS 5000 Series supports dual agent images. This allows an administrator to download a newer image to the Switch/Stack, and specify when the unit should reboot to take the new image, and even after a new image is installed and running, the administrator still has the ability to 'roll back' to the previous image.

IPv6 management

The ERS 5000 Series supports either IPv4 or IPv6-based management. Simply select whether the Switch/Stack should be managed via IPv4 or IPv6, enter the Switch/Stack IP Address in the correct format, and the appropriate management paradigm becomes operational.

Many-to-many port mirroring

The new ERS 5600 models introduce support for many-to-many port mirroring to address enhanced control and visibility in complex, converged networks. This feature provides the ability to have multiple instances (up to four) of many-to-one port mirroring, and flows to be captured simultaneously to traffic analyzers, call recorders, IDS/IPS devices, etc.

Advanced management features

BootP and TFTP support allows centralized Switch IP Address assignment, software upgrades and SNMP agent updates over the network. The RADIUS-based security feature authenticates local console and TELNET logins.

Lifetime warranty

Avaya includes Industry-leading warranty services for our portfolio of Stackable Ethernet Routing Switches, including the ERS 5000 Series products. We provide complimentary next-business-day shipment of failed hardware - including fans and power supplies - for the full life of the product; all countries will receive next-business-day shipping to replace failed hardware. Avaya also offers complimentary basic technical support: basic for the supported lifecycle of the product and up to advanced for the first 90 days after purchase. This includes support for the shipped software version, with an optional Software Release Service available to provide access to new feature releases.

Summary

The reliability benefits from modular power supplies coupled with advanced security, QoS and Layer 3 functionality make the Ethernet Routing Switch 5000 Series a highly effective premium high-performance solution for Wiring Closets, high-speed Aggregation and Data Centers, Server Farms and small Core installations.

Avaya is uniquely positioned to help your business reduce costs by combining voice and data into an integrated system. The Ethernet Routing Switch 5000 Series, along with other Avaya products, can increase profitability, streamline business operations, increase productivity and help gain a competitive edge.

Learn More

To learn more about the Ethernet Routing Switch 5000 Series, contact your Avaya Account Manager or Avaya Authorized Partner. Or, visit us online at **avaya.com**.

Features	ERS 5510	ERS 5520-PWR	ERS 5530	ERS 5650	ERS 5698	ERS 5632
10/100/1000 ports	24 / 48	24 / 48	24 (12 Combo)	48	96 (6 Combo)	—
GbE SFP ports	2	4	12 Combo	—	6 Combo	24
10Gbps XFP ports	—	—	2	2	2	8
Power-over-Ethernet	—	24 / 48	—	48 (5650TD-PWR)	96 (5698TFD-PWR)	—
Resilient FAST architecture	Yes	Yes	Yes	Yes	Yes	Yes
Stack capacity	640 Gbps	640 Gbps	640 Gbps	1.152 Tbps	1.152 Tbps	1.152 Tbps
Number of Switches supported by an RPS 15 Module	Up to 4	1	1	—	—	—
Number of AC or DC Modular Supplies	—	—	—	Up to 2	Up to 3	Up to 2
Typical deployments	Desktop Connectivity and Server Aggregation	Desktop Connectivity, PoE for Convergence Devices	Small Core and Server Aggregation	Desktop Connectivity with optional PoE and Server Aggregation	Desktop Connectivity with optional PoE	Small Core and Fiber Aggregation

Specifications

General & Performance

- Switch Fabric performance: 80 – 384 Gbps
- Frame forwarding rate: 35.7 – 172.7 Mpps
- Latency: 9 µsec
- Jitter: 12-14 µsec
- Frame length: 64 – 1518 Bytes (802.1Q Untagged), 64 – 1522 bytes (802.1Q Tagged)
- Jumbo Frame support: up to 9,000 Bytes (802.1Q Tagged)
- Multi-Link Trunks: up to 32 Groups, with 8 Links per Group
- VLANs: up to 1,024 Port/Protocol/802.1Q-based
- Multiple Spanning Tree Groups: 8
- MAC Address: up to 16k
- DHCP Snooping: up to 1,024 table entries
- ARP Entries: up to 1,792
- IP Interfaces: up to 64
- IPv4 Routes: up to 4k
- OSPF Instances: up to 4
- OSPF Adjacencies: up to 16

Pluggable Interfaces

- 1000BASE-T up to 100m over CAT5E or better UTP Cable (RJ-45)
- 1000BASE-SX up to 550m reach on MMF (Duplex LC)
- 1000BASE-SX up to 550m reach on MMF (Duplex MTRJ)
- 1000-BASE-LX up to 550m reach on MMF, and up to 10 km on SMF (Duplex LC)
- 1000BASE-XD CDWM up to 40 km reach on SMF (Duplex LC)
- 1000BASE-ZX CDWM up to 70 km reach on SMF (Duplex LC)
- 1000BASE-EX up to 120 km reach on SMF (Duplex LC)
- 1000BASE-BX up to 10 and 40 km reach variants on SMF (LC)
- 100BASE-FX up to 2km reach over MMF (Duplex LC)*
- Ethernet-over-T1 up to 2,874m reach over 22AWG Cable (RJ-48C)
- 10GBASE-SR up to 300m reach over MMF (Duplex LC)
- 10GBASE-LRM up to 220m over FDDI-grade MMF (Duplex LC)
- 10GBASE-LR/LW up to 10km reach over SMF (Duplex LC)
- 10GBASE-ER/EW up to 40km reach over SMF (Duplex LC)
- 10GBASE-ZR/ZW up to 80km reach over SMF (Duplex LC)

Note: Pluggable Transceivers thus denoted "*" are supported on the ERS 5632FD and 5698TFD/-PWR models only.

IEEE & IETF Standards Compatibility

- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1p Prioritizing
- IEEE 802.1Q VLAN Tagging
- IEEE 802.1X EAPoL
- IEEE 802.1ab Link Layer Discovery Protocol
- IEEE 802.3 Ethernet
- IEEE 802.3u Fast Ethernet
- IEEE 802.3x Flow Control
- IEEE 802.3z Gigabit Ethernet
- IEEE 802.3ab Gigabit Ethernet over Copper
- IEEE 802.3ad Link Aggregation
- RFC 768 UDP
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 854 Telnet
- RFC 894 IP over Ethernet
- RFC 951 BootP
- RFC 1058 RIP v1
- RFC 1112 IGMPv1
- RFC 1157 SNMP
- RFC 1213 MIB-II
- RFC 1271 RMON
- RFC 1350 TFTP
- RFC 1493 Bridge MIB
- RFC 1583 OSPF v2
- RFC 1757 RMON
- RFC 1850 OSPF v2 MIB
- RFC 1945 HTTP v1.0
- RFC 2131 BootP/DHCP Relay Agent
- RFC 2236 IGMPv2
- RFC 2328 OSPF v2
- RFC 2453 RIP v2
- RFC 2474 DiffServ
- RFC 2475 DiffServ
- RFC 2665 Ethernet MIB
- RFC 2674 Q-BRIDGE-MIB
- RFC 2737 Entity MIBv2
- RFC 2819 RMON MIB
- RFC 2863 Interfaces Group MIB
- RFC 2865 RADIUS
- RFC 2866 RADIUS Accounting
- RFC 3046 DHCP Relay Agent Information Option
- RFC 3164 BSD Syslog Protocol
- RFC 3315 DHCP for IPv6
- RFC 3410 SNMPv3
- RFC 3411 SNMP Frameworks
- RFC 3412 SNMP Message Processing
- RFC 3413 SNMPv3 Applications
- RFC 3414 SNMPv3 USM
- RFC 3415 SNMPv3 VACM
- RFC 3576 RADIUS
- RFC 3917 IP Flow Information Export
- RFC 3993 DHCP Subscriber-ID sub-option
- RFC 3954 NetFlow Services Export v9
- RFC 4022 TCP MIB
- RFC 4113 UDP MIB
- RFC 4293 IPv6
- RFC 4673 RADIUS Dynamic Authorization Server MIB

Specifications (cont.)

Safety Agency Approvals

- Global basis for certification: EN 60950 current edition with CB national member deviations
- Mexico: complies with NOM

Electromagnetic Emissions & Immunity

- Global basis for certification: CISPR 22 Class A & CISPR 24, IEC 60950 with CB member national deviations
- US: complies with FCC CFR47 Part 15
- Canada: complies with ICES Class A
- Europe: complies with EN 55022 Class A; EN 55024; EN 300386 V1.3.3 Class A
- European Union & EFTA: complies with EN 55022; EN 55024; EN 61000-3-2; EN 61000-3-3
- Japan/Nippon: complies with VCCI
- Taiwan: complies with BSMI CNS 13428 & 14336, Class A
- Korea: complies with MIC Class A

Warranty

- Lifetime Next-Business-Day hardware replacement
- Lifetime Basic Technical Support
- 90-Day Advanced Technical Support
- Optional Software Release Service also available: GW5300ASG / GW6300ASG

Country of Origin

- China (PRC)

About Avaya

Avaya is a global leader in enterprise communications systems. The company provides unified communications, contact centers, and related services directly and through its channel partners to leading businesses and organizations around the world. Enterprises of all sizes depend on Avaya for state-of-the-art communications that improve efficiency, collaboration, customer service and competitiveness. For more information please visit www.avaya.com.

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