



Release Notes for Avaya Ethernet Routing Switch 3600 Series

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Chapter 1: Introduction

Purpose

This document describes new features, hardware, upgrade alerts, known and resolved issues, and limitations for Ethernet Routing Switch 3600 Series in this software release.

Chapter 2: New in this release

New in this release

The following sections detail what is new in *Release Notes for Avaya Ethernet Routing Switch 3600 Series*, NN47213-400.

New hardware

Ethernet Routing Switch 3600 Series is a new platform.

The following Stackable switches are available in this series:

- ERS 3626GTS—24 port non-Power over Ethernet (PoE) switch
- ERS 3650GTS—48 port non-Power over Ethernet (PoE) switch
- ERS 3626GTS-PWR+—24 port PoE switch
- ERS 3650GTS-PWR+—48 port PoE switch

For information about the switch installation and regulatory information, see the following documents:

- *Locating Documentation for Avaya Ethernet Routing Switch 3600 Series*, NN47213-104
- *Regulatory Reference for Avaya Ethernet Routing Switch 3600 Series*, NN47213-100
- *Quick Install Guide for Avaya Ethernet Routing Switch 3600 Series*, NN47213-300
- *Installing Avaya Ethernet Routing Switch 3600 Series*, NN47213-304
- *Installation Job Aid (English) for Avaya Ethernet Routing Switch 3600 Series*, NN47213-303

For a list of the documentation for this product and more information about documents on how to configure other switch features, see *Documentation Reference for Avaya Ethernet Routing Switch 3600 Series*, NN47213-101.

Overview of features and hardware models by release

This section provides an overview of the ERS 3600 Series software features introduced in Release 6.0.

Features for Releases

For more information about features and their configuration, see the documents listed in the respective sections.

Features	New in release
	6.0
256 port-based VLANs with IVL. For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500</i> .	x
802.1AB (LLDP) Standards Based Auto Topology For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
802.1AB and ADAC interoperability For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
802.1AB Customization features For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
802.1AB Integration features For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
802.1AB Location TLV For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
802.1AB MED For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
802.3ad- Link Aggregation Control Protocol (LACP) For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500</i> .	x
802.3af (Power over Ethernet —PoE) and 802.3at (PoE+) For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301</i> .	x
802.1Q tagging For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500</i> .	x
802.1w – rapid spanning tree	x

Table continues...

Features	New in release
	6.0
For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	
802.1X EAP Accounting For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X EAP (MHSA, MHMV, Guest VLAN, Fail Open VLAN, Non-EAP, and RADIUS MAC) For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X EAP Separate enable/disable For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X Enhancement: Dynamic VLAN assignment for NEAP For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X Enhancement: Unicast request, Non-EAP IP Phone support For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X NEAP Accounting For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X NEAP and Guest VLAN on same port For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X NEAP Fail Open VLAN For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X NEAP Phone Avaya Support For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X NEAP re-authentication timer For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
802.1X NEAP with VLAN names	x

Table continues...

Features	New in release
	6.0
For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504</i> .	
802.1X RFC2866/2869 RADIUS interim accounting updates For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504</i> .	x
802.1X RFC3576 RADIUS auth extensions - CoA and DM For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504</i> .	x
802.3x (Flow Control – Gig ports only) For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301</i> .	x
Advanced QoS For more information, see <i>Configuring Quality of Service on Avaya Ethernet Routing Switch 3600 Series, NN47213-503</i> .	x
ACG (ASCII Config Generator) For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301</i> .	x
ACL pipe filter For more information, see <i>Using ACLI and EDM on Avaya Ethernet Routing Switch 3600 Series, NN47213-102</i> .	x
Agent Auto Unit Replacement (AAUR) For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301</i> .	x
ARP Inspection For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504</i> .	x
ASCII Config File For more information, see <i>Using ACLI and EDM on Avaya Ethernet Routing Switch 3600 Series, NN47213-102</i> .	x
Auto Detection And Configuration (ADAC) with 802.1AB interaction For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501</i> .	x
Auto save Disable For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301</i> .	x
Autosave configuration enhancements	x

Table continues...

Features	New in release
	6.0
For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301</i> .	
Autotopology For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500</i> .	x
Auto Unit Replacement (AUR) For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
Avaya Automatic QoS For more information, see <i>Configuring Quality of Service on Avaya Ethernet Routing Switch 3600 Series, NN47213-503</i> .	x
Avaya Energy Saver For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
Backup configuration For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
BPDU Filtering For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500</i> .	x
BootP or Default IP For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301</i> .	x
BootP/TFTP for downloading software and config file For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301</i> .	x
Custom Autonegotiation Advertisements (CANA) For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
CLI Quick Start script For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301</i> .	x
Configurable SNMP trap port (only SNMP v1 & v2) For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504</i> .	x

Table continues...

Features	New in release
	6.0
Configure Asset ID For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506</i> .	x
COS/DSCP — mapping the DSCP value For more information, see <i>Configuring Quality of Service on Avaya Ethernet Routing Switch 3600 Series, NN47213-503</i> .	x
CPU & Memory Utilization For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501</i> .	x
Cumulative system uptime For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501</i> .	x
DA Filtering For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504</i> .	x
Default all EAP settings For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504</i> .	x
DHCP Client For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502</i> .	x
DHCPv6 filtering For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504</i> .	x
DHCP Option 82 For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502</i> .	x
DHCP Relay For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502</i> .	x
DHCP Server For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502</i> .	x

Table continues...

New in this release

Features	New in release
	6.0
DHCP Snooping For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Distributed LAG (802.3ad LACP), up to 6 trunks with 4 links per trunk For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
Distributed MLT (DMLT), up to 6 trunks with 4 links per trunk For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
DNS – Domain Name Service capability For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	x
Downloading agent without reset For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	x
Dual Syslog servers For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
Duplicate Address Detection (DAD) snooping and filtering For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Dynamic "IPv6 Neighbor solicitation/advertisement" inspection For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Extended IP Manager (IPv4 & IPv6) For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Factory-default command For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	x
Fabric Attach For more information, see <i>Configuring Fabric Attach on Avaya Ethernet Routing Switch 3600 Series, NN47213-505.</i>	x
Fabric Attach Proxy	x

Table continues...

Features	New in release
	6.0
For more information, see <i>Configuring Fabric Attach on Avaya Ethernet Routing Switch 3600 Series, NN47213-505.</i>	
HTTP port change For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
HTTPS/SSL secure web management For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
HTTP web-based management For more information, see <i>Using ACLI and EDM on Avaya Ethernet Routing Switch 3600 Series, NN47213-102.</i>	x
Identify Units (Blink LEDs) For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
IGMPv1/v2 snooping/proxy For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
IGMPv3 Snooping/proxy For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
IP Blocking For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
IP Local Static Routes For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
IP Non-Local Static Routes For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
IPv6 Source Guard For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x

Table continues...

Features	New in release
	6.0
IPv6 Enhancements - IPv6 Host Enhancement and IPv6 Loopback For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
IPV6 First Hop Security For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
IPv6 Management For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506.</i>	x
IPv6 VLANs (protocol based) For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
L3 - RIPv1v2 For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
LAG (802.3ad LACP), up to 6 trunks with 4 links per trunk For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
Local console via serial interface For more information, see <i>Quick Install Guide for Avaya Ethernet Routing Switch 3600 Series, NN47213-300.</i>	x
Local password protection For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
MAC address based security with autolearn (BaySecure) For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
MAC flush For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
Manual-MDI/X	x

Table continues...

Features	New in release
	6.0
For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213–506.</i>	
MLD Proxy (MLDv1/MLDv2) For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
MLD snooping (MLDv1/MLDv2) For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
MLT enable/disable whole trunk For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
MLT/DMLT/LAG dynamic add/delete For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
Multiple Host with Multiple VLANs (MHMV) For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Multiple Host with Single Authentication (MHSA) — No limit For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Multi-Link Trunking (MLT) with up to 6 trunks and 4 links per trunk For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
NEAP Not Member of VLAN For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Neighbor Unreachability Detection (NUD) filtering For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
No Banner & CTRL-Y Skip For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	x

Table continues...

Features	New in release
	6.0
Password security For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	X
Ping enhancement For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	X
Port mirroring (1-1, manytoOne) For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	X
Port Naming For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	X
Proxy ARP For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	X
RADIUS-based security For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	X
RADIUS EAP / NEAP to different servers For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	X
RADIUS password fallback For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	X
RADIUS Server reachability For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	X
RADIUS use-management-ip For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	X
Rate Limiting For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506.</i>	X
Remote Logging - ability to log on remote servers	X

Table continues...

Features	New in release
	6.0
For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	
Resilient stacking	x
RIP Policies For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
RMON (RFC1757): per port Statistics, History, Alarm and Events For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
Router Advertisements (RA) filtering For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Run IP Office Script For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	x
Secure FTP (SFTP) – full support For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Secure SLA Monitor agent-server communication For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
Service Level Agreement (SLA) Monitor For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
Show environmental For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
Show Flash History For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506.</i>	x
Show MAC Address enhancement For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x

Table continues...

Features	New in release
	6.0
Show Running Config (verbose, non-verbose, module) enhancement For more information, see <i>Using ACLI and EDM on Avaya Ethernet Routing Switch 3600 Series, NN47213-102.</i>	x
Show running-config specific	x
Show software status For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	x
Show UTC Timestamp For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506.</i>	x
Shutdown, reload enhancement For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506.</i>	x
Single 802.1d Spanning Tree Protocol (STP) on all ports For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
SLAMon For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
SLAMon phase 2 (including EDM) For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
SLPP Guard For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
SNMP-based network management For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
SNMP MIB web page in EDM For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
SNMP trap enhancements For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x

Table continues...

Features	New in release
	6.0
SNMP Trap list web page in EDM For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
SNMPv3 security For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
SNTP and SNTP timezone enhancement For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506.</i>	x
Software Exception Log For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
Spanning Tree 802.1d compliance mode For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
Spanning Tree port mode For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
SSH enhancement to support RSA For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
SSHv2 For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Stack Forced Mode For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506.</i>	x
Stack Health Check For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
Stack IP Address For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506.</i>	x
Stack Monitor and Statistics	x

Table continues...

Features	New in release
	6.0
For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	
Static LACP key to trunk ID binding For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
Static Routing with default route For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
Static STP Multicast Destination Configuration For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
Sticky MAC For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Storm Control For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Syslog For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
Syslog enhancements For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
TACACS+ For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Telnet (up to 4 sessions) For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	x
Telnet out – ability to open telnet sessions from the box For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	x
Traffic Profile	x

Table continues...

Features	New in release
	6.0
For more information, see <i>Configuring Quality of Service on Avaya Ethernet Routing Switch 3600 Series, NN47213-503.</i>	
UDP Forwarding For more information, see <i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502.</i>	x
Unified Authentication For more information, see <i>Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504.</i>	x
Unit Stack Uptime For more information, see <i>Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501.</i>	x
Username Password Enhancement For more information, see <i>Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301.</i>	x
Video Surveillance Script For more information, see <i>Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506.</i>	x
VLACP For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
VLAN Tagging Enhancement For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
Voice VLAN Integration For more information, see <i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500.</i>	x
WEB HTTP download of ASCII — downloading of ASCII configuration files through HTTP For more information, see <i>Using ACLI and EDM on Avaya Ethernet Routing Switch 3600 Series, NN47213-102.</i>	x
Writemem and save config command For more information, see <i>Using ACLI and EDM on Avaya Ethernet Routing Switch 3600 Series, NN47213-102.</i>	x

Chapter 3: Important notices

This section provides important software and hardware related notices.

File names

The following table describes the software files for ERS 3600 Series Software Release 6.0.

Module or file type	Description	File name	File size (bytes)
SSH runtime image	Software image for the Avaya Ethernet Routing Switch 3600 Series	ers3600_6.0.0.007.img	15,304,212
Diagnostic software version 6.0	Diagnostic software for the Avaya Ethernet Routing Switch 3600 Series	ers3600_6.0.0.3_diag.bin	7,096,944
MIB definition files	Management Information Base (MIB) definition files	Ethernet_Routing_Switch_36xx_MIBs_6.0.zip	1,513,694
EDM Help file zip	A downloadable zip file containing Help information for Enterprise Device Manager (EDM)	ers3600v600_HELP_EDM.zip	2,644,365
COM Plug in file zip	COM Plug in for Enterprise Device Manager (EDM)	ers3600v6.0.0.0.zip	4,051,290

Upgrading the Diag image using ACLI

Perform the following procedure to upgrade the Diag image using ACLI.

Procedure

1. Connect a default switch to a TFTP server.

2. Set a valid IP address and subnet mask.
3. Configure the TFTP server address using the following command from Privileged EXEC mode:

```
tftp-server <A.B.C.D>
```

4. Verify the connection to the TFTP Server.
5. At the command prompt, enter the **download** command with the following parameters.

```
download diag <WORD>
```

The Diag image is downloaded and then the switch is rebooted. To avoid rebooting the switch after the download, add the option *<no-reset>* to the **download** command.

Variable definitions

The following table describes the parameters for the **download** command.

Variable	Value
<A.B.C.D>	Enter the IP address of the TFTP server in the format XXX.XXX.XXX.XXX
<WORD>	The filename of the diagnostic image

Updating the Diag image from the Boot menu

Procedure

1. Connect a default switch to a TFTP server.
2. Reboot the switch (either a soft or hard reset).
3. During the boot process, press **CTRL+C** until the following menu is displayed:

```
DIAGNOSTIC BREAK MENU
  1 - Launch Primary Agent-1
  2 - Download Agent/Diag
  3 - Reinitialize Agent Configuration Files
  4 - Display Error Log
  5 - Display System Information
  6 - Continue Boot Sequence
  7 - Reset
  8 - Toggle Do-POST Selection [ENABLED]
  9 - Run POST tests
```

4. Press **`2'**.

5. Choose option: 3 - Diagnostics.
6. Choose option: 1 - Download via TFTP.
7. Enter the filename, along with its extension; for example `_diag.bin`.
8. Enter the TFTP server IP address.
9. Enter the switch IP address.
10. Enter the subnet mask.
11. Enter the port in which the cable is connected.

The download of the DIAG image begins.

Supported software and hardware capabilities

The following table summarizes the known capabilities for the ERS 3600 Series software.

Table 1: Supported capabilities for the Avaya Ethernet Routing Switch 3600 Series

Feature	Maximum number supported
QoS egress queues	4
QoS filters per precedence	256
QoS precedence	8
Total QoS filters	(4 x 256) = 1024
MAC addresses	16000
Layer 2	
VLANs	256
Multiple Spanning Tree Instances (MSTI) in MSTP mode	8
Multicast entries (IPv4 and IPv6)	248
IGMP Snoop VLANs	256
LLDP Neighbors (3626/3650)	416/800
LLDP Neighbors per port	16
MultiLink Trunking (MLT), Link Aggregation (LAG) groups	6
Links for each MLT or LAG	4
Layer 3	
ARP entries (local, static & dynamic)	512 (of which 32 are reserved for local ARPs)
Local ARP Entries (local IP interfaces)	32
Static ARP entries	256

Table continues...

Feature	Maximum number supported
Dynamic ARP entries	480
IPv4 route entries (local, static & dynamic)	32 local + 32 static + 256 dynamic
Static routes and Non-local Static routes	32
Local routes	32
Management routes	4
RIP routes	256
RIP Interfaces	16
UDP Forwarding entries	128
DHCP relay entries	256
DHCP relay forward paths	256
DHCP Server Pools	16 (one per VLAN)
DHCP Server clients per pool	256
DHCP Server clients per switch/stack	2000
IPv6 Interfaces	64
IPv6 Static Routes	128
Miscellaneous	
802.1X EAP scaling (clients for each port)	32
Jumbo frame support	9 K bytes
IGMP multicast groups	248
802.1X (EAP and NEAP) clients per stack	768
RMON alarms	400
RMON events	400
RMON Ethernet statistics	128 per unit
RMON Ethernet history	196 per unit
Fabric Attach operational mode	Proxy
Fabric Attach clients –proxy requests (proxy VLANs)	256

Supported standards RFCs and MIBs

Standards

The standards in the following list are supported on the switch:

- IEEE 802.1AB (Link Layer Discovery Protocol (LLDP) and LLDP-Media Endpoint Discover (LLDP-MED))

- IEEE 802.1Q (VLANs)
- IEEE 802.1p (Priority Queues)
- IEEE 802.1D (Spanning Tree)
- IEEE 802.1w (Rapid Spanning Tree)
- IEEE 802.1s (Multiple Spanning Tree Groups)
- IEEE 802.1X (Extensible Authentication Protocol (EAP))
- IEEE 802.3 (10BASE-T/100BASE-TX)
- IEEE 802.3u (100BASE-T (ANSI) Auto-Negotiation)
- IEEE 802.3x (Pause Frames / Flow Control)
- IEEE 802.3z (1000BASE-X)
- IEEE 802.3ab (1000BASE-T)
- IEEE 802.3ad (Link Aggregation Control Protocol (LACP))
- IEEE 802.3aq (10GBASE-LRM 10 Gbit/s Ethernet over fiber)
- IEEE 802.3at (Power over Ethernet plus— PoE+ (32W))

RFCs and MIBs

For more information about networking concepts, protocols, and topologies, consult the following RFCs and MIBs:

- RFC 783 Trivial File Transfer Protocol (TFTP)
- RFC 791/ 950 Internet Protocol (IP)
- RFC 792 Internet Control Message Protocol (ICMP)
- RFC 826 Address Resolution Protocol (ARP)
- RFC 854 Telnet Server and Client
- RFC 951/ 1542 (BOOTP)
- RFC 1058 RIPv1
- RFC 1112 Internet Group Management Protocol v1 (IGMPv1)
- RFC 1213 MIB-II
- RFC 1215 SNMP Traps Definition
- RFC 1271 / 1757 / 2819 RMON
- RFC 1361 / 1769 Simple Network Time Protocol (SNTP)
- RFC 1493 (Bridge MIB)
- RFC 1573 / 2863 Interface MIB
- RFC 1643 / 2665 Ethernet MIB

- RFC 1905 / 3416 SNMP
- RFC 1906 / 3417 SNMP Transport Mappings
- RFC 1907 / 3418 SNMP MIB
- RFC 1945 HTTP v1.0
- RFC 1981 Path MTU Discovery for IPv6
- RFC 2011 SNMP v2 MIB for IP
- RFC 2012 SNMP v2 MIB for TCP
- RFC 2013 SNMP v2 MIB for UDP
- RFC 2131 DHCP Client
- RFC 2132 DHCP Options 6, 43 & 60
- RFC 2138 RADIUS
- RFC 2236 Internet Group Management Protocol v2 (IGMPv2)
- RFC 2453 RIPv2
- RFC 2460 Internet Protocol v6 (IPv6) Specification
- RFC 2461 Neighbor Discovery for IPv6
- RFC 2462 Auto-configuration of link local addresses
- RFC 2464 Ipv6 over Ethernet
- RFC 2474 Differentiated Services Support
- RFC 2570 / 3410 SNMPv3
- RFC 2571 / 3411 SNMP Frameworks
- RFC 2572 / 3412 SNMP Message Processing
- RFC 2573 / 3413 SNMPv3 Applications
- RFC 2574 / 3414 SNMPv3 USM
- RFC 2575 / 3415 SNMPv3 VACM
- RFC 2576 / 3584 Co-existence of SNMP v1/v2/v3
- RFC 2616 HTTP
- RFC 2660 HTTPS (Secure Web)
- RFC 2665 Ethernet MIB
- RFC 2674 Q-Bridge MIB
- RFC 2710 MLDv1 for IPv6
- RFC 2737 Entity MIBv2
- RFC 2819 RMON MIB
- RFC 2863 Interfaces Group MIB

Important notices

- RFC 2866 RADIUS Accounting
- RFC 2869 RADIUS Extensions (interim updates)
- RFC 3046 (& 5010) DHCP option 82, Relay Agent Information Option
- RFC 3058 RADIUS Authentication
- RFC 3361 DHCP option 120 SIP Servers
- RFC 3376 Internet Group Management Protocol v3 (IGMPv3)
- RFC 3484 Default Address Selection for IPv6
- RFC 3576 RADIUS Change of Authorization
- RFC 3596 DNS Extensions for IPv6
- RFC 3810 MLDv2 for IPv6
- RFC 3879 Deprecating Site Local Addresses
- RFC 4007 Scoped Address Architecture
- RFC 4022 MIB for TCP
- RFC 4113 MIB for UDP
- RFC 4193 Unique Local IPv6 Unicast Addresses
- RFC 4252 SSH
- RFC 4291 IPv6 Addressing Architecture
- RFC 4293 MIB for IP
- RFC 4301 Security Architecture for the Internet Protocol
- RFC 4432 SSHv2 RSA
- RFC 4443 Internet Control Message Protocol (ICMPv6) Update to RFC 2463
- RFC 4675 RADIUS Attributes for VLAN and Priority Support
- RFC 4861 Neighbor Discovery for IPv6
- RFC 4862 IPv6 Stateless Address Autoconfig
- RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
- RFC 5859 TFTP Server DHCP option

Chapter 4: Known issues and limitations

The following table lists and describes known issues and limitations. Where available and appropriate, workarounds are provided.

For known issues prior to this release, see previous release notes available from the Avaya Support web site: www.avaya.com/support.


Reference number	Description
ERS3600–69	Inconsistency between CLI and EDM: In EDM it should exist a tab in the folder RUN script for RUN VS.
ERS3600–310	EAP: Auto-configured VLAN should be deleted when NEAP clients are disconnected  Note: Removing all authenticated clients on a dynamically autocreated VLAN by EAP, may cause that auto-created VLANs to not be deleted under some circumstances.
ERS3600–345	EDM offbox: After creating vlan from EDM offbox with assigned IP address, the vlan created in EDM offbox are displayed in ACG in incorrect order in module I3-protocols.
ERS3600–356	USB- Wrong error message when try to download diag/image to USB and USB port is disabled
ERS3600–380	COM: EDM Offbox: AES - Wrong error message when try to delete a schedule when AES is active
ERS3600–385	COM: EDMoffbox - inconsistent value displayed when trying to disable faElementType & falsidVlanAsgns TLVs from LLDP menu
ERS3600–403	COM/EDM-offbox: QoS traffic-profile is not implemented in EDM off-box.
ERS3600–418	EDM: USB support for ASCII config file tab does not exist in EDM.
ERS3600–425	Stack- Link leds for stacking ports are not lit. The Stacking ports have been migrated to the front of the switch, and the ports can be used either as Stacking or as Standalone 10G ports. <ul style="list-style-type: none"> When used as Stacking ports, the LEDs on the left of the switch indicate Stack port status. The Stack Up and Stack Down LED's are updated as the Stack ports become active or idle. Their local port LEDs do not indicate Stack port status.

Table continues...

Known issues and limitations

Reference number	Description
	<ul style="list-style-type: none">• When used as Standalone ports, the local LEDs indicate port status, like all other ports.
ERS3600-426	EDM- Port status is not updated instantly when link state changes.

Chapter 5: Related Resources

Support

Go to the Avaya Support website at <http://support.avaya.com> for the most up-to-date documentation, product notices, and knowledge articles. You can also search for release notes, downloads, and resolutions to issues. Use the online service request system to create a service request. Chat with live agents to get answers to questions, or request an agent to connect you to a support team if an issue requires additional expertise.

Documentation

See *Documentation Reference for Avaya Ethernet Routing Switch 3600 Series, NN47213-101* for a list of the documentation for this product.

For more information about new features of the switch and important information about the latest release, see *Release Notes for Avaya Ethernet Routing Switch 3600 Series, NN47213-400*.

For more information about how to configure security, see *Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504*.

Training

Ongoing product training is available. For more information or to register, see <http://avaya-learning.com/>.

Enter the course code in the **Search** field and click **Go** to search for the course.

Course code	Course title
8D00020E	Stackable ERS and VSP Products Virtual Campus Offering

Viewing Avaya Mentor videos

Avaya Mentor videos provide technical content on how to install, configure, and troubleshoot Avaya products.

About this task

Videos are available on the Avaya Support website, listed under the video document type, and on the Avaya-run channel on YouTube.

Procedure

- To find videos on the Avaya Support website, go to <http://support.avaya.com> and perform one of the following actions:
 - In **Search**, type `Avaya Mentor Videos` to see a list of the available videos.
 - In **Search**, type the product name. On the Search Results page, select **Video** in the **Content Type** column on the left.
- To find the Avaya Mentor videos on YouTube, go to www.youtube.com/AvayaMentor and perform one of the following actions:
 - Enter a key word or key words in the **Search Channel** to search for a specific product or topic.
 - Scroll down Playlists, and click the name of a topic to see the available list of videos posted on the website.

 **Note:**

Videos are not available for all products.

Searching a documentation collection

On the Avaya Support website, you can download the documentation library for a specific product and software release to perform searches across an entire document collection. For example, you can perform a single, simultaneous search across the collection to quickly find all occurrences of a particular feature. Use this procedure to perform an index search of your documentation collection.

Before you begin

- Download the documentation collection zip file to your local computer.
- You must have Adobe Acrobat or Adobe Reader installed on your computer.

Procedure

1. Extract the document collection zip file into a folder.
2. Navigate to the folder that contains the extracted files and open the file named `<product_name_release>.pdx`.

3. In the Search dialog box, select the option **In the index named <product_name_release>.pdx**.
4. Enter a search word or phrase.
5. Select any of the following to narrow your search:
 - Whole Words Only
 - Case-Sensitive
 - Include Bookmarks
 - Include Comments
6. Click **Search**.

The search results show the number of documents and instances found. You can sort the search results by Relevance Ranking, Date Modified, Filename, or Location. The default is Relevance Ranking.

Subscribing to e-notifications

Subscribe to e-notifications to receive an email notification when documents are added to or changed on the Avaya Support website.

About this task

You can subscribe to different types of general notifications, for example, Product Correction Notices (PCN), which apply to any product or a specific product. You can also subscribe to specific types of documentation for a specific product, for example, Application & Technical Notes for Ethernet Routing Switch 5000 Series.

Procedure

1. In an Internet browser, go to <https://support.avaya.com>.
2. Type your username and password, and then click **Login**.
3. Under **My Information**, select **SSO login Profile**.
4. Click **E-NOTIFICATIONS**.
5. In the GENERAL NOTIFICATIONS area, select the required documentation types, and then click **UPDATE**.

GENERAL NOTIFICATIONS

1/5 Notifications Selected

End of Sale and/or Manufacturer Support Notices	<input type="checkbox"/>
Product Correction Notices (PCN)	<input checked="" type="checkbox"/>
Product Support Notices	<input type="checkbox"/>
Security Advisories	<input type="checkbox"/>
Services Support Notices	<input type="checkbox"/>

UPDATE >>

6. Click **OK**.
7. In the PRODUCT NOTIFICATIONS area, click **Add More Products**.

PRODUCT NOTIFICATIONS

Add More Products

Show Details

1 Notices

8. Scroll through the list, and then select the product name.
9. Select a release version.
10. Select the check box next to the required documentation types.

The screenshot shows a web interface with two main panels. The left panel, titled 'PRODUCTS', contains a list of product categories with 'Ethernet Routing Switch 5000 Series' selected. The right panel, titled 'ETHERNET ROUTING SWITCH 5000 SERIES', features a dropdown menu for 'Select a Release Version' set to 'All and Future Releases'. Below this are several checkboxes for notification preferences: 'Administration and System Programming', 'Application Developer Information', 'Application Notes', 'Application and Technical Notes', 'Declarations of Conformity', and 'Documentation Library'. A red 'SUBMIT >>' button is located at the bottom right of the right panel.

11. Click **Submit**.