



# **Release Notes for Avaya Ethernet Routing Switch 3600 Series**

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NN47213-400  
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# Chapter 1: Introduction

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## 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

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## New in this Release

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

### AUR and AAUR enhancement

Auto Unit Replacement (AUR) and Agent Auto Unit Replacement (AAUR) features are enhanced to support base unit replacement for a stack of two switches.

For more information, see *Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506*.

Ensure to check the following while replacing a unit or base unit in the stack:

- The new unit must be the same hardware configuration as the old, including the same number of ports.
- If a new unit is added with a different hardware configuration, the stored configuration of the unit being replaced is not loaded on the new unit
- If a new unit is added with the same hardware configuration, the previous configuration of the new unit is lost. The configuration is overwritten with the restored configuration from the stack.
- You can enable or disable this feature at any time using ACLI. The default mode is Enable.
- Match the position of the Base Unit switch to the unit being replaced.

### Default settings for Spanning Tree mode

Multiple Spanning Tree Protocol (MSTP) is the default Spanning Tree mode.

The following table lists the default settings for Spanning Tree mode.

| Command  | Default value |
|--|---------------|
| <code>spanning-tree mode</code>                      | mst           |
| <code>spanning-tree mstp forward-time</code>         | 15            |
| <code>spanning-tree mstp max-age</code>              | 20            |
| <code>spanning-tree mstp max-hop</code>              | 2000          |
| <code>spanning-tree mstp pathcost-type</code>        | bits32        |
| <code>spanning-tree mstp priority</code>             | 8000          |
| <code>spanning-tree mstp region config-id-sel</code> | 0             |

*Table continues...*

| Command   | Default value      |
|---|--------------------|
| <code>spanning-tree mstp region region-name</code>    | Bridge MAC address |
| <code>spanning-tree mstp region region-version</code> | 0                  |
| <code>spanning-tree mstp tx-holdcount</code>          | 3                  |
| <code>spanning-tree mstp version</code>               | mstp               |
| <code>no spanning-tree bpdu-filtering</code>          | ignore-self        |

For more information, see *Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500*.

## EAP enhancements

The following EAP enhancements are available in this release:

- **radius reachability check** is a new ACLI command, which triggers RADIUS server reachability instantly without having to wait for periodic checks.
- **show EAPOL sessions** is a new ACLI command, which displays the authentication status of EAP and Non-EAP clients along with all unauthenticated clients connected to the switch or stack.

This command obsoletes `show eapol multihost status` and `show eapol multihost non-eap-mac status`.

For more information, see *Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504*.

For more information about ACLI commands, see *ACLI Commands Reference for Avaya Ethernet Routing Switch 3600 Series, NN47213-103*.

## Fabric Attach enhancements

Fabric Attach (FA) extends the fabric edge to devices that do not support Shortest Path Bridging MAC (SPBM). With FA, non-SPBM devices can take advantage of full SPBM support, when support is available.

FA also decreases the configuration requirements on SPBM devices by off-loading some configuration to the attached non-SPBM devices and by automating certain configuration steps that occur most often.

The FA feature provides the following enhancements:

- Dynamic Trusted QoS interface updates
- Tagging mode on FA Client port updated based on client specific state
- Authentication status data related to the FA and I-SID/VLAN Assignment TLV displayed in the output of the `show fa elements` command
- FA statistics
- Dual Key Authentication

For more information, see *Configuring Fabric Attach on Avaya Ethernet Routing Switch 3600 Series, NN47213-505*.

This feature introduces the following CLI commands:

- `fa authentication-key`
- `default fa authentication-key`
- `fa message-authentication`
- `default fa message-authentication`
- `show fa elements`
- `no fa message-authentication`
- `fa message-authentication key-mode strict`
- `fa message-authentication key-mode standard`
- `clear fa statistics`
- `show fa statistics`

For more information about CLI commands, see *CLI Commands Reference for Avaya Ethernet Routing Switch 3600 Series, NN47213-103*.

### **IGMP Selective Channel Block**

IGMP Selective Channel Block prevents certain ports from receiving multicast traffic from a specific group address or range of addresses. Up to 240 channels for blocking can be configured for a group address or range of addresses.

For more information, see *Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502*.

This feature introduces the following CLI commands:

- `ip igmp profile`
- `show ip igmp profile`
- `clear ip igmp profile stats`
- `ip igmp filter`

For more information about CLI commands, see *CLI Commands Reference for Avaya Ethernet Routing Switch 3600 Series, NN47213-103*.

### **Low PoE power mode**

The switch can be configured to low PoE power mode. In this mode, the fan speed is reduced to accommodate silent operation for open environments where reduced noise from the fans is required. The surrounding ambient air temperature for use of this feature is required to be 30 degrees Celsius (86 F) or lower. The available PoE budget for the switch when operating in low-power-budget is limited to 90 Watts in total (802.3af/at) allowing the switch to operate with an acoustic output of 40 db or less. This feature is supported in stand-alone mode only.

For more information about installation and air flow requirements, see *Installation Job Aid (English) for Avaya Ethernet Routing Switch 3600 Series, NN47213-303*.

This feature introduces the following CLI commands:

- `poe power-mode {low-power-budget| high-power-budget}`

- `default poe power-mode {low-power-budget| high-power-budget}`

For more information, see *Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213–506*.

## PoE enhancements

You can configure a port to power up specific types of Powered Devices (PDs) using the `poe poe-power-up-mode` command. The default power up mode is 802.3at. For instance, the port mode can be configured as high inrush to supply power to a legacy PD that requires more than 15W at power-up.

For more information, see *Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213–506*.

The following ACLI command is new:

- `poe poe-power-up-mode [ 802.3af | 802.3at | high-inrush | port <portlist> | pre-802.3at ]`

The following ACLI command outputs are modified:

- `show poe-port-status`
- `show running-config`

For more information about ACLI commands, see *ACLI Commands Reference for Avaya Ethernet Routing Switch 3600 Series, NN47213-103*.

## Stack LEDs

Stack LEDs on ports 25/26 on ERS 3626GTS and ERS3626GTS-PWR+ and on ports 51/52 on ERS 3650GTS and ERS3650GTS-PWR+ light up green when the port is active and they blink in sync with traffic even if the stack is not formed or if the stack is misconfigured.

### \* Note:

The port LEDs reflect the status of the physical link and not the status of the stack.

The LEDs also remain lit during agent download.

For more information about Stack LEDs, see *Installing Avaya Ethernet Routing Switch 3600 Series, NN47213–304*.

## Support for 10GBase-T SFP+ transceiver

10GBase-T SFP+ module (AA1403043–E6) is supported on ERS 3600 Series switches.

## Time Domain Reflectometer

The Time Domain Reflectometer (TDR) is used to test Ethernet cables connected to switch ports for defects, such as short pin and pin open and display the results.

When you use the TDR to test a cable with a 10/100MB/s link, the link is interrupted for the duration of the test and restored when the test is complete. Because ports that operate at slower speeds do not use all of the connected pins, test results for a port with a 10/100 MB/s link can be less detailed than test results for a port with a 1Gb/s link.

You can use the TDR to test cables from 5 to 120 meters in length with a margin of accuracy between 3 and 5 meters.

The TDR cannot test fibre-optic cables.

For more information, see *Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213–506*.

### TLS version 1.0 is disabled

The ERS 3600 Release 6.1 agent supports TLS versions 1.1 and 1.2.

## Overview of features by release

This section provides an overview of the ERS 3600 software features up to Release 6.1.

This following table lists software features in *Using ACLI and EDM on Avaya Ethernet Routing Switch 3600 Series, NN47213-102*.

| Feature  | New in this release |     |
|--|---------------------|-----|
|  | 6.0                 | 6.1 |
| ACLI pipe filter   | x                   |     |
| ASCII Config File  | x                   |     |
| HTTP web-based management  | x                   |     |
| Show Running Config (verbose, non-verbose, module) enhancement                     | x                   |     |
| WEB HTTP download of ASCII — downloading of ASCII configuration files through HTTP | x                   |     |
| Writemem and save config command   | x                   |     |

This following table lists software features in *Quick Start Configuration for Avaya Ethernet Routing Switch 3600 Series, NN47213-301*.

| Feature   | New in this release |     |
|---|---------------------|-----|
|   | 6.0                 | 6.1 |
| 802.3af (Power over Ethernet —PoE) and 802.3at (PoE+) | x                   |     |
| 802.3x (Flow Control – Gig ports only)                | x                   |     |
| ACG (ASCII Config Generator)                          | x                   |     |
| Agent Auto Unit Replacement (AAUR)                    | x                   |     |
| Auto save Disable                                     | x                   |     |
| Autosave configuration enhancements                   | x                   |     |
| BootP or Default IP                                   | x                   |     |
| BootP/TFTP for downloading software and config file   | x                   |     |
| CLI Quick Start script                                | x                   |     |
| DNS – Domain Name Service capa                        | x                   |     |
| Downloading agent without reset                       | x                   |     |

*Table continues...*

|   |   |  |
|---|---|--|
| Factory-default command                                   | x |  |
| No Banner & CTRL-Y Skip                                   | x |  |
| Ping enhancement  | x |  |
| Port Naming   | x |  |
| Run IP Office Script                                      | x |  |
| Show software status                                      | x |  |
| Telnet (up to 4 sessions)                                 | x |  |
| Telnet out – ability to open telnet sessions from the box | x |  |
| Username Password Enhancement                             | x |  |

This following table lists software features in *Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 3600 Series, NN47213-500*.

| Feature   | New in this release |     |
|---|---------------------|-----|
|   | 6.0                 | 6.1 |
| 256 port-based VLANs with IVL.  | x                   |     |
| 802.3ad- Link Aggregation Control Protocol (LACP)                     | x                   |     |
| 802.1Q tagging  | x                   |     |
| 802.1w – rapid spanning tree  | x                   |     |
| Autotopology  | x                   |     |
| BPDU Filtering  | x                   |     |
| Default settings for Spanning Tree mode                               |                     | x   |
| Distributed LAG (802.3ad LACP), up to 6 trunks with 4 links per trunk | x                   |     |
| Distributed MLT (DMLT), up to 6 trunks with 4 links per trunk         | x                   |     |
| IPv6 VLANs (protocol based)   | x                   |     |
| LAG (802.3ad LACP), up to 6 trunks with 4 links per trunk             | x                   |     |
| MAC flush   | x                   |     |
| MLT enable/disable whole trunk  | x                   |     |
| MLT/DMLT/LAG dynamic add/delete                                       | x                   |     |
| Multi-Link Trunking (MLT) with up to 6 trunks and 4 links per trunk   | x                   |     |
| Show MAC Address enhancement  | x                   |     |
| Single 802.1d Spanning Tree Protocol (STP) on all ports               | x                   |     |

*Table continues...*

New in this release

|  |   |  |
|--|---|--|
| SLPP Guard                                     | x |  |
| Spanning Tree 802.1d compliance mode           | x |  |
| Spanning Tree port mode                        | x |  |
| Static LACP key to trunk ID binding            | x |  |
| Static STP Multicast Destination Configuration | x |  |
| VLACP  | x |  |
| VLAN Tagging Enhancement                       | x |  |
| Voice VLAN Integration                         | x |  |

This following table lists software features in *Configuring System Monitoring on Avaya Ethernet Routing Switch 3600 Series, NN47213-501*.

| Feature  | New in this release |     |
|--|---------------------|-----|
|  | 6.0                 | 6.1 |
| Auto Detection And Configuration (ADAC) with 802.1AB interaction | x                   |     |
| CPU & Memory Utilization   | x                   |     |
| Cumulative system uptime   | x                   |     |
| Dual Syslog servers  | x                   |     |
| Identify Units (Blink LEDs)                                      | x                   |     |
| Port mirroring (1-1, manytoOne)                                  | x                   |     |
| Remote Logging - ability to log on remote servers                | x                   |     |
| RMON (RFC1757): per port Statistics, History, Alarm and Events   | x                   |     |
| Secure SLA Monitor agent-server communication                    | x                   |     |
| Service Level Agreement (SLA) Monitor                            | x                   |     |
| Show environmental   | x                   |     |
| SLAMon   | x                   |     |
| SLAMon phase 2 (including EDM)                                   | x                   |     |
| SNMP MIB web page in EDM   | x                   |     |
| SNMP Trap list web page in EDM                                   | x                   |     |
| Software Exception Log   | x                   |     |
| Stack Health Check   | x                   |     |
| Syslog   | x                   |     |
| Syslog enhancements  | x                   |     |
| Unit Stack Uptime  | x                   |     |

This following table lists software features in *Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 3600 Series, NN47213-502*.

| Feature                           | New in this release |     |
|-----------------------------------|---------------------|-----|
|                                   | 6.0                 | 6.1 |
| DHCP Client                       | x                   |     |
| DHCP Option 82                    | x                   |     |
| DHCP Relay                        | x                   |     |
| DHCP Server                       | x                   |     |
| IGMP Selective Channel Block      |                     | x   |
| IGMPv1/v2 snooping/proxy          | x                   |     |
| IGMPv3 Snooping/proxy             | x                   |     |
| IP Blocking                       | x                   |     |
| IP Local Static Routes            | x                   |     |
| IP Non-Local Static Routes        | x                   |     |
| L3 - RIPv1v2                      | x                   |     |
| MLD Proxy (MLDv1/MLDv2)           | x                   |     |
| MLD snooping (MLDv1/MLDv2)        | x                   |     |
| Proxy ARP                         | x                   |     |
| RIP Policies                      | x                   |     |
| Static Routing with default route | x                   |     |
| UDP Forwarding                    | x                   |     |

This following table lists software features in *Configuring Quality of Service on Avaya Ethernet Routing Switch 3600 Series, NN47213-503*.

| Feature                           | New in this release |     |
|-----------------------------------|---------------------|-----|
|                                   | 6.0                 | 6.1 |
| Advanced QoS                      | x                   |     |
| Avaya Automatic QoS               | x                   |     |
| COS/DSCP — mapping the DSCP value | x                   |     |
| Traffic Profile                   | x                   |     |

This following table lists software features in *Configuring Security on Avaya Ethernet Routing Switch 3600 Series, NN47213-504*.

| Feature  | New in this release |     |
|--|---------------------|-----|
|  | 6.0                 | 6.1 |
| 802.1X EAP Accounting  | x                   |     |
| 802.1X EAP (MHSA, MHMV, Guest VLAN, Fail Open VLAN, Non-EAP, and RADIUS MAC) | x                   |     |
| 802.1X EAP Separate enable/disable   | x                   |     |

*Table continues...*

New in this release

|   |   |   |
|---|---|---|
| 802.1X Enhancement: Dynamic VLAN assignment for NEAP          | x |   |
| 802.1X Enhancement: Unicast request, Non-EAP IP Phone support | x |   |
| 802.1X NEAP Accounting  | x |   |
| 802.1X NEAP and Guest VLAN on same port                       | x |   |
| 802.1X NEAP Fail Open VLAN                                    | x |   |
| 802.1X NEAP Phone Avaya Support                               | x |   |
| 802.1X NEAP re-authentication timer                           | x |   |
| 802.1X NEAP with VLAN names                                   | x |   |
| 802.1X RFC2866/2869 RADIUS interim accounting updates         | x |   |
| 802.1X RFC3576 RADIUS auth extensions - CoA and DM            | x |   |
| ARP Inspection  | x |   |
| Configurable SNMP trap port (only SNMP v1 & v2)               | x |   |
| DA Filtering  | x |   |
| Default all EAP settings                                      | x |   |
| DHCPv6 filtering  | x |   |
| DHCP Snooping   | x |   |
| Duplicate Address Detection (DAD) snooping and filtering      | x |   |
| Dynamic "IPv6 Neighbor solicitation/advertisement" inspection | x |   |
| EAP enhancements  |   | x |
| Extended IP Manager (IPv4 & IPv6)                             | x |   |
| HTTP port change  | x |   |
| HTTPS/SSL secure web management                               | x |   |
| IPv6 Source Guard   | x |   |
| IPv6 Enhancements - IPv6 Host Enhancement and IPv6 Loopback   | x |   |
| IPV6 First Hop Security                                       | x |   |
| Local password protection                                     | x |   |
| MAC address based security with autolearn (BaySecure)         | x |   |
| Multiple Host with Multiple VLANs (MHMV)                      | x |   |
| Multiple Host with Single Authentication (MHSA) — No limit    | x |   |

*Table continues...*

|   |   |  |
|---|---|--|
| NEAP Not Member of VLAN                           | x |  |
| Neighbor Unreachability Detection (NUD) filtering | x |  |
| Password security                                 | x |  |
| RADIUS-based security                             | x |  |
| RADIUS EAP / NEAP to different servers            | x |  |
| RADIUS password fallback                          | x |  |
| RADIUS Server reachability                        | x |  |
| RADIUS use-management-ip                          | x |  |
| Router Advertisements (RA) filtering              | x |  |
| Secure FTP (SFTP) – full support                  | x |  |
| SNMP-based network management                     | x |  |
| SNMP trap enhancements                            | x |  |
| SNMPv3 security                                   | x |  |
| SSH enhancement to support RSA                    | x |  |
| SSHv2   | x |  |
| Stack Monitor and Statistics                      | x |  |
| Sticky MAC  | x |  |
| Storm Control                                     | x |  |
| TACACS+   | x |  |
| Unified Authentication                            | x |  |

This following table lists software features in *Configuring Fabric Attach on Avaya Ethernet Routing Switch 3600 Series, NN47213-505*.

| Feature                    | New in this release |     |
|----------------------------|---------------------|-----|
|                            | 6.0                 | 6.1 |
| Fabric Attach              | x                   |     |
| Fabric Attach Proxy        | x                   |     |
| Fabric Attach enhancements |                     | x   |

This following table lists software features in *Configuring Systems on Avaya Ethernet Routing Switch 3600 Series, NN47213-506*.

| Feature                                      | New in this release |     |
|--|---------------------|-----|
|  | 6.0                 | 6.1 |
| 802.1AB (LLDP) Standards Based Auto Topology | x                   |     |
| 802.1AB and ADAC interoperability            | x                   |     |
| 802.1AB Customization features               | x                   |     |
| 802.1AB Integration features                 | x                   |     |

*Table continues...*

New in this release

|  |   |   |
|--|---|---|
| 802.1AB Location TL                          | x |   |
| 802.1AB MED                                  | x |   |
| Auto Unit Replacement (AUR) per trunk        | x |   |
| Avaya Energy Saver                           | x |   |
| Backup configuration                         | x |   |
| Custom Autonegotiation Advertisements (CANA) | x |   |
| Configure Asset ID                           | x |   |
| IPv6 Management                              | x |   |
| Low PoE power mode                           |   | x |
| Manual-MDI/X                                 | x |   |
| PoE enhancements                             |   | x |
| Rate Limiting                                | x |   |
| Show Flash History                           | x |   |
| Show UTC Timestamp                           | x |   |
| Shutdown, reload enhancement                 | x |   |
| SNTP and SNTP timezone enhancement           | x |   |
| Stack Forced Mode                            | x |   |
| Stack IP Address                             | x |   |
| Time Domain Reflectometer                    |   | x |
| Video Surveillance Script                    | 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 6.1.

| Module or file type  | Description   | File name                                   | File size (bytes) |
|----------------------|---|---|-------------------|
| SSH runtime image    | Software image for the Avaya Ethernet Routing Switch 3600 Series                        | ers3600_6.1.0.005.img                       | 15,451,688        |
| Diagnostic software  | 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_6.1.0.zip | 1,615,219         |
| EDM Help file zip    | A downloadable zip file containing Help information for Enterprise Device Manager (EDM) | ers3600v610_HELP_EDM.zip                    | 2,907,786         |
| COM Plug in file zip | COM Plug in for Enterprise Device Manager (EDM)   | ers3600v6.1.0.0.zip                         | 4,219,989         |

---

## 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   |
| <b>Layer 2</b>  |   |
| VLANs   | 256   |
| IGMP SCB filters  | 240   |
| 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   |
| <b>Layer 3</b>  |   |
| ARP entries (local, static & dynamic)                   | 512 (of which 32 are reserved for local ARPs) |
| Local ARP Entries (local IP interfaces)                 | 32  |

*Table continues...*

Important notices

| <b>Feature</b>                                      | <b>Maximum number supported</b>    |
|---|------------------------------------|
| Static ARP entries                                  | 256                                |
| 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                                |
| <b>Miscellaneous</b>                                |                                    |
| 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

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### 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 802.3af (PoE) – 15.4W max
- IEEE 802.3aq (10GBASE-LRM 10 Gbit/s Ethernet over fiber)
- IEEE 802.3at (Power over Ethernet plus— PoE+ (32W))
- IEEE 802.3az Energy Efficient Ethernet (EEE)

---

### 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

## Important notices

- 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
- 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

## Important notices

- RFC 4541 IGMP and MLD Snooping Switches Considerations
- 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: Resolved issues

The following table lists the issues resolved in the current software release.

| Reference number | Description  |
|------------------|--|
| 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.<br><br>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"> <li>• 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.</li> <li>• When used as Standalone ports, the local LEDs indicate port status, like all other ports.</li> </ul> |
| ERS3600-508      | DHCP Snooping is not updated with end-user IP address and sometime end-user cannot obtain an IP address  |
| ERS3600–515      | No MAC learning after upgrade to 7.4 for POE device with FA enabled  |
| ERS3600–518      | Unable to configure call server IP in this range (x.x.x.224 through x.x.x.255) for LLDP  |
| ERS3600–520      | Mac-address of the PC not learned on a EAP port after force authorization on that port   |
| ERS3600–521      | End-user loses network connection through ERS3600 with DAI and IPSPG configuration   |
| ERS3600–526      | Random ports show negative value for last change field   |

# Chapter 5: 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](http://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<br><br> <b>Note:</b><br>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.   |
| ERS3600–404      | COM: Error "CommitFailed" when configuring DHCPv6 Guard ServerAccessListName and ReplyPrefixListName with invalid values in EDMOffBox.   |
| ERS3600–426      | EDM: Port status is not updated instantly when link state changes.   |
| ERS3600–432      | EDM: Refresh button in EDM does not function.<br><br><b>Workaround:</b> Use the F5 function key.   |
| ERS3600–435      | Disabled SFP Ports do not flash when disabled.   |
| ERS3600–450      | Cannot upload ASCII config when vlans dynamically created are present (FA, EAP).<br><br>The VLANs created dynamically are not automatically re-created after a device reboot. When executing a ASCII config file (after a reboot) the CLI commands that are using these VLANs will fail. Manual re-creation of the missing VLANs is recommended before executing the ASCII script. |
| ERS3600–459      | Inconsistency between CLI and EDM: Track All Mac should be implemented in EDM.   |
| ERS3600–485      | FA ZT EDM: Should not accept auto-port-mode-fa-client and auto-pvid-mode-fa-client enabled at the same time  |

*Table continues...*

| Reference number | Description  |
|------------------|--|
|                  | <p> <b>Note:</b></p> <p>When both policies are configured, only the one that was configured first is applied.</p>   |
| ERS3600–486      | <p>FA ZT EDM: Should not accept auto-port-mode-fa-client and auto-client-attach enabled at the same time.</p> <p> <b>Note:</b></p> <p>When both policies are configured, only the one that was configured first is applied.</p>   |
| ERS3600–505      | <p>FA transition from stack to standalone: FA ZT policy is not applied on AP after transition</p> <p><b>Workaround:</b> In case that the FA ZT policy is not applied on a AP after transition from stack to standalone, do the following:</p> <ul style="list-style-type: none"> <li>• Make sure there is only a single connection to the server.</li> <li>• Eliminate the other proxy connections (proxy to proxy is not supported).</li> <li>• Delete the binding data configured on the AP so that the only configuration being installed is the ZTC data.</li> </ul> |
| ERS3600–519      | <p>Autosave won't re-enable after reload is canceled without reboot when ASCII config not available.</p> <p>The autosave is not re-enabled when a reload is activated then canceled. A device reboot is required for the autosave activation.</p>  |
| ERS3600–523      | <p>EDM does not display any link info about stacking ports in stack mode in device physical view.</p> <p>In the stacking mode the number of available ports is 26/50 (the stacking ports are not counted); therefore, there are no instances of the SNMP objects for the stacking ports.</p>   |

# Chapter 6: Related Resources

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## 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.

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## 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*.

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## 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 |

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## 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](http://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.

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## 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.

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## 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.

## Related Resources

| PRODUCTS                                     | My Notifications |
|--|------------------|
| Ethernet Routing Switch 3500 Series          |                  |
| Ethernet Routing Switch 3510-24T             |                  |
| Ethernet Routing Switch 4000 Series          |                  |
| <b>Ethernet Routing Switch 5000 Series</b>   |                  |
| Ethernet Routing Switch 8300                 |                  |
| Ethernet Routing Switch 8800/8600            |                  |
| Ethernet Routing Switch RPS 15               |                  |
| Ethernet Routing Switch Web Switching Module |                  |
| Ethernet Switch 325/425 Series               |                  |
| Ethernet Switch 380                          |                  |

  

| ETHERNET ROUTING SWITCH 5000 SERIES   |                          |
|---------------------------------------|--------------------------|
| Select a Release Version              | All and Future Releases  |
| Administration and System Programming | <input type="checkbox"/> |
| Application Developer Information     | <input type="checkbox"/> |
| Application Notes                     | <input type="checkbox"/> |
| Application and Technical Notes       | <input type="checkbox"/> |
| Declarations of Conformity            | <input type="checkbox"/> |
| Documentation Library                 | <input type="checkbox"/> |
| <b>SUBMIT &gt;&gt;</b>                |                          |

11. Click **Submit**.