



Documentation Reference for Avaya Ethernet Routing Switch 4900 and 5900 Series

Release 7.4
NN47211-103
Issue 05.01
April 2017

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Chapter 1: Introduction

Purpose

This document provides information on features in the following products:

- Avaya Ethernet Routing Switch 4900 Series
- Avaya Ethernet Routing Switch 5900 Series

This document describes information regarding the suite of documents for Avaya Ethernet Routing Switch 4900 and 5900 Series. It also describes how the content is organized across the document suite.

Chapter 2: New in this document

The following sections detail what is new in *Documentation Reference for Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-103* for Release 7.3.

Resources

Information about related resources is moved to last chapter in this document.

Chapter 3: Technical documentation changes

The following sections describe new, restructured, and retired documents in Release 7.3.

New documents

No new documents were introduced in this release.

Restructured documents

No documents were restructured in this release.

Retired documents

No documents were retired in this release.

Chapter 4: Roadmap

This section is a roadmap for the Avaya Ethernet Routing Switch documentation. Use this section to find the correct document for the task you need to perform.

The technical documents are structured with an emphasis on the tasks you perform.

Customer documentation packaging

Avaya technical documents are organized according to job functions. Following are the job functions:

- [Product Fundamentals](#) on page 8
- [Installation and Commissioning](#) on page 9
- [Upgrades and Patches](#) on page 10
- [Operations](#) on page 11
- [Administration and Security](#) on page 11
- [Fault and Performance Management](#) on page 12

Product Fundamentals

Product Fundamentals documentation includes product overview and information that applies to all areas of the product.

Table 1: Product fundamentals documents

Document title	Description
<i>Regulatory Information Reference for Avaya Ethernet Routing Switch 5900 Series, NN47211-101</i>	This document provides information about regulatory messages.

Table continues...

Document title	Description
<i>Regulatory Information Reference for Avaya Ethernet Routing Switch 4900 Series, NN47212-100</i>	
<i>Documentation Reference for Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-103</i>	This document contains an overview of the documentation suite and explains how to use task-based documentation.
<i>Using ACLI and EDM on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-104</i>	This document provides instructions to use the user interfaces, including Avaya command line interface (ACLI) and Enterprise Device Manager (EDM), and includes procedures to use configuration files.
<i>ACLI Commands Reference for Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-105</i>	This document provides default values and proper syntax for the ACLI commands.
<i>Locating the Latest Product Software and Release Notes for Avaya Ethernet Routing Switch 5900 Series, NN47211-100</i> <i>Locating the Latest Product Software and Release Notes for Avaya Ethernet Routing Switch 4900 Series, NN47212-101</i>	This document provides information about locating the documentation and software.

Installation and Commissioning

Installation and Commissioning documentation includes information that supports initial installation and commissioning (initial configuration) activities, including preparation, processes, safety requirements, and instructions for rollback procedures.

The following table describes installation and commissioning documents.

Table 2: Installation and commissioning documents

Document title	Description
<i>Quick Start Configuration for Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-500</i>	This document provides instructions to connect and initially configure the switch for your network.
<i>Installing Avaya Ethernet Routing Switch 5900 Series, NN47211-300</i> <i>Installing Avaya Ethernet Routing Switch 4900 Series, NN47212-301</i>	This document provides instructions to install the switch in an equipment rack (individually or in a stack) or on a shelf. It also provides instructions to perform the initial IP configuration on the switch using CLI, BootP, or the IP.CFG file. It also provides instructions to verify the switch status using the front-panel LEDs.

Table continues...

Document title	Description
<i>Installing Transceivers and Optical Components on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-302</i>	This document provides instructions to install small form factor pluggable transceivers, 10 Gigabit small form factor pluggable transceivers, and includes specifications for these hardware components.
<i>Quick Install for Avaya Ethernet Routing Switch 5900 Series, NN47211-303</i> <i>Quick Install for Avaya Ethernet Routing Switch 59100 Series, NN47211-304</i> <i>Quick Install for Avaya Ethernet Routing Switch 4900 Series, NN47212-300</i>	This document provides instructions to install the switch in an equipment rack or on a shelf and prepare for network connectivity.
<i>Installation Job Aid (English) for Avaya Ethernet Routing Switch 5900 Series NN47211-301</i> <i>Installation Job Aid (English) for Avaya Ethernet Routing Switch 4900 Series, NN47212-302</i>	This document provides instructions to install the switch in English. The document also includes safety messages and power connection instructions.
<i>Configuring Systems on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-501</i>	This document provides instructions to perform basic configuration of the switch including procedures to configure the switch IP address after hardware installation. It also provides instructions to configure system-level features such as stacking, feature licensing, Simple Network Time Protocol (SNTP), BootP, Domain Name System, Power over Ethernet (PoE), and Layer Discovery Protocol (LLDP).

Upgrades

Upgrades documentation enables you to upgrade hardware and software from one release to another for the product.

Table 3: Upgrades documents

Document title	Description
<i>Release Notes for Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-400</i>	This document describes new features and important information about the latest release. Release Notes includes a list of known issues (including workarounds where appropriate) and a list of fixed issues.

Operations

Operations documents include information that supports tasks related to configuration (post-commissioning) of services or applications, routine maintenance of hardware or software, and accounting or billing activities.

The following table describes the switch operations documents.

Table 4: Operations documents

Document title	Description
<i>Configuring VLANs, Spanning Tree, and Multi-Link Trunking on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-502</i>	This document describes procedures and conceptual information to configure VLANs, Spanning Tree, Link Aggregation Control Protocol, and Multi-Link Trunking.
<i>Configuring Quality of Service on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-504</i>	This document provides procedures and conceptual information to configure Quality of Service.
<i>Configuring IP Routing and Multicast on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-506</i>	This document provides procedures and conceptual information to configure IP routing features on the switch, including static routes, Proxy ARP, DHCP Relay, and UDP forwarding. It also provides procedures and conceptual information to manage multicast traffic using IGMP and MLD snooping.
<i>Configuring Avaya Fabric Connect on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-507</i>	This document provides procedures and conceptual information to configure Shortest Path Bridging MAC.

Administration and Security

Administration and Security documentation includes information that supports tasks performed by operations personnel, which relate to network administration or product security, including the configuration and management of systems data and users. The documentation also includes the management and protection of resources from unauthorized or detrimental access and use.

The following table describes the switch administration and security documents.

Table 5: Administration and security documents

Document title	Description
<i>Configuring Security on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-505</i>	This document provides procedures and conceptual information to administer and configure security features for the switch, including MAC-based security, RADIUS, EAPOL, SSH, and IPv6 First Hop Security (FHS).

Fault and Performance Management

Fault and Performance Management documents include information that supports the tasks performed by operations personnel, which relate to managing or preventing faults, troubleshooting, and monitoring and improving the performance of the network or product

The following table describes fault and performance management documents.

Table 6: Fault and performance management documents

Document title	Description
<i>Configuring System Monitoring on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-503</i>	This document provides information about system diagnostics tools including syslog, Remote Monitoring, port mirroring, and displaying port and chassis statistics.
<i>Troubleshooting Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-700</i>	This document describes common problems and error messages and the techniques to resolve them.

Chapter 5: Information quality

Avaya technical documents are tested by subject matter experts (SMEs) throughout the product development lifecycle. SMEs from Design, Product Verification (PV), Product Line Management (PLM), Verification Office (VO), and Avaya Client Services (ACS), all contribute to document quality.

Avaya releases technical documents in the early stages of development that have not completed all testing milestones, on a limited basis. Documents that have not completed testing bear a Draft watermark on every page to indicate that the content they contain may change as the product is refined and document testing is completed. Draft documents are not widely available.

Chapter 6: Text conventions

This chapter describes the text conventions used in the documentation.

Angle brackets

Indicates that you choose the text to enter based on the description inside the brackets. Do not type the brackets when entering the command.

Example: If the command syntax is `ping <ip_address>`, you enter `ping 192.32.10.12`.

Bold or Bold Courier text

Bold or **Bold Courier** text indicates command names. Example 2 displays how the text that you type appears. Example 3 displays how file paths appear.

Example

Use the `info` command.

Example

Enter `show ip {alerts|routes}`.

Example

Protocols > IP identifies the IP command on the Protocols menu.

Braces

Braces (`{ }`) indicate required elements in syntax descriptions where more than one option is available. You must choose only one option. Do not type the braces when you enter the command.

Example: If the command syntax is `show ip {alerts|routes}`, you must enter either `show ip alerts` or `show ip routes`, but not both.

Brackets

Brackets ([]) indicate optional elements in syntax descriptions. Do not type the brackets when you enter the command.

Example: If the command syntax is **show ip interfaces [-alerts]**, you can enter either `show ip interfaces` or `show ip interfaces -alerts`.

Ellipses

An ellipsis (...) indicates that you repeat the last element of the command as needed.

Example: If the command syntax is **ethernet/2/1 [<parameter> <value>] . . .**, you enter `ethernet/2/1` and as many parameter-value pairs as you need.

Italic text

Italic text indicates book titles or new terms followed by a definition.

Example: *Release Notes for Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-400.*

Plain Courier text

`Plain Courier` text indicates system output, for example, prompts and system messages.

Example: `Set Trap Monitor Filters`

Separator

A separator (>) shows menu paths.

Example: **Protocols > IP** identifies the IP command on the Protocols menu.

Vertical bar

A vertical bar (|) separates choices for command keywords and arguments. Enter only one choice. Do not type the vertical line when you enter the command.

Example: If the command syntax is **show ip {alerts|routes}**, you enter either `show ip alerts` or `show ip routes`, but not both.

cr convention

In ACLI procedures, when you see <cr> as an option for a command, you can press the Enter key on your keyboard to execute the command.

Chapter 7: Task-based information

Task-based information, a quick reference for using the task-based documentation, describes the structure of task-based information and how it can be used most effectively.

Task-based documentation

Task-based documentation is a new way of packaging customer information in a structured, task-centric format.

Task-based documentation focuses on what the user must do and the sequence in which to perform tasks.

The goal is to make Avaya documentation easy to find, easy to use, timely, and accurate.

How to use task-based documentation

In task-based documentation, procedural information is included in the document. Conceptual and reference information is provided, and the user is guided on how to use conceptual and reference material by identified prerequisites or direct links and references.

The user navigates the information by following the flows that are provided for tasks and procedures.

Task flow overview

Task flows are flowcharts that illustrate which procedures and decisions are involved to complete an activity.

The task flows guide you through activities to use the switch, whether it is configuration, upgrading, installation, maintenance, or troubleshooting.

Each flow provides the prerequisites and links to the tasks or procedures.

To perform or refer to a procedure, always follow the task flow. Following the task flows ensures that you meet all the requirements for successful completion of the task.

Work flows, task flows, and procedures

Work flows, task flows, and procedures have similar elements to maintain consistency and usability. Each of the following sections have a specific function:

- [Purpose statements](#) on page 18
- [Prerequisites](#) on page 18
- [Work flows or task flows](#) on page 18
- [Procedure steps](#) on page 18
- [Example procedures](#) on page 19
- [Variable definitions](#) on page 19
- [Job aid](#) on page 19

Purpose statements

Purpose statements explain why or when you would perform a work flow, task, or procedure and impact.

Prerequisites

Prerequisites list everything you must do or understand before you start the workflow, task, or procedure. Prerequisites can include tasks that should already be completed, risks, confirmation of system status, required knowledge, time estimates or limitations, and links to supporting information.

The prerequisite section is omitted if no required prerequisites exist.

Work flows or task flows

This section is the flow chart diagram that represents the task flow with navigational links to the tasks or procedures in the flow.

Procedure steps

Procedures provide numerical steps that help you perform the procedure. Each step is a single action.

Example procedures

Some procedures use examples to show how to correctly perform the procedure with realistic settings.

Variable definitions

Variable definitions provide the possible values, ranges, or definitions of variables used in the procedure steps.

If variables are not used in the procedure; then the variables definition section is omitted.

Job aid

Job aids provide information help to successfully perform the procedure.

A job aid is only used when required.

Task-based documentation terms

The following table describes task-based documentation terms.

Term	Description
Work flow	A high or top-level group of tasks.
Task or task flow	A logical group of procedures represented as a single action in a flowchart diagram. Complex tasks can be divided into simpler tasks or subtasks.
Procedure	A logical group of single action steps in a task.
Step	A single action performed in a procedure.
Variable	A placeholder in procedure steps representing a value or definition.

Restructuring Avaya technical documents into a task-based format is an ongoing initiative. The documentation for some Avaya products is already converted to the new format.

Chapter 8: 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

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 4900 and 5900 Series, NN47211-103*.

For more information on new features of the switch and important information about the latest release, see *Release Notes for Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-400*.

For more information about how to configure security, see *Configuring Security on Avaya Ethernet Routing Switch 4900 and 5900 Series, NN47211-505*.

For the current documentation, see the Avaya Support web site: www.avaya.com/support.

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 names: Ethernet Routing Switch 3500 Series, Ethernet Routing Switch 3510-24T, Ethernet Routing Switch 4000 Series, Ethernet Routing Switch 5000 Series (highlighted), 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, and Ethernet Switch 380. A 'My Notifications' link is visible in the top right of this panel. The right panel, titled 'ETHERNET ROUTING SWITCH 5000 SERIES', features a 'Select a Release Version' dropdown menu set to 'All and Future Releases'. Below this are several sections with checkboxes: 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**.