

Documentation Reference for VSP Operating System Software

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Chapter 1: Introduction

Purpose

This document provides information on features in VSP Operating System Software (VOSS). VOSS runs on the following product families:

- Avaya Virtual Services Platform 4000 Series
- Avaya Virtual Services Platform 7200 Series
- Avaya Virtual Services Platform 8000 Series

This document describes information regarding the suite of documents for VOSS switches. It also describes how the content is organized across the documents suite.

Chapter 2: New in this document

The following sections detail what is new in *Documentation Reference*.

Release 6.0

There is no feature-related change in *Documentation Reference*.

Resources

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

Chapter 3: Technical documentation changes

This chapter describes the new, restructured, and retired documents for VSP Operating System Software (VOSS).

New documents

VOSS 6.0

The following documents are new in VOSS 6.0:

- Configuring the SLA Mon[™] Agent
- Configuring SPB-PIM Gateway

Restructured documents

Documentation title changes in VOSS 6.0

The following documents were restructured in VOSS Release 5.0. The table maps the old document title to the restructured document title.

Table 1: Mapping of old document titles to restructured document titles

Old document title	New document title
Fault Management of Avaya Virtual Services Platform 4000 Series, NN46251-702 and Managing Faults on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-702	Monitoring Performance for VSP Operating System Software, NN47227–701 The fault management content is moved to this document and the original documents made obsolete.

Retired documents

The following documents were retired in VOSS Release 6.0:

- Configuring VLANs and Spanning Tree on Avaya Virtual Services Platform 4000 Series, NN46251-500
- Configuring IP Multicast Routing Protocols on Avaya Virtual Services Platform 4000, NN46251-504
- Avaya Virtual Services Platform 4000 Configuration IP Routing, NN46251-505
- Configuring OSPF and RIP on Avaya Virtual Services Platform 4000 Series, NN46251-506
- Administration for Avaya Virtual Services Platform 4000 Series, NN46251-600
- Security for Avaya Virtual Services Platform 4000 Series, NN46251-601
- Troubleshooting of Avaya Virtual Services Platform 4000 Series, NN46251-700
- Performance Management of Avaya Virtual Services Platform 4000 Series, NN46251-701
- Fault Management of Avaya Virtual Services Platform 4000 Series, NN46251-702
- Managing Faults on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-702

Chapter 4: Roadmap

Use this section as a guide to find information to perform work involving the VSP Operating System Software (VOSS).

Product fundamentals

Product fundamentals documentation contains information that is relevant to multiple job functions, and overview and reference information about the product and the product documentation.

Table 2: Product fundamentals documents

Avaya technical document	Description
Documentation Reference	This document contains an overview of the documentation suite and explains how to use task-based documentation.
Quick Start Configuration	This document provides instructions to perform initial provisioning of the software.
Using CLI and EDM	This document describes how to navigate the command line interface, and how to use Enterprise Device Manager.
Commands Reference for Avaya Virtual Services Platform 4000 Series, NN46251-104	These documents provide default values and proper syntax of the command line interface commands.
Commands Reference for Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227– 104	

Upgrades

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

Table 3: Upgrades documents

Avaya technical document	Description
Release Notes	This document describes new features and important information about the latest release. Release notes include a list of known issues (including workarounds where appropriate) and a list of fixed issues. This document also describes known limitations and expected behaviors that may first appear to be issues.

Installation and commissioning

Installation and commissioning documentation enables you to install the product hardware and software and perform the initial configuration.

Table 4: Installation and commissioning documents

Avaya technical document	Description
Installing Avaya Virtual Services Platform 4850GTS Series, NN46251-300	This document provides procedures and conceptual information to install the VSP 4000 VSP4850GTS Series.
Avaya Virtual Services Platform 4000 Series 4850GTS Series Quick Install Guide, NN46251-302	This document provides quick installation instructions to install the VSP 4000 VSP4850GTS Series switch.
Avaya Virtual Services Platform 4000 Series 4450GSX Quick Install Guide, NN46251-303	This document provides quick installation instructions to install the VSP 4000 4450GSX-PWR+ switch.
Installing Avaya Virtual Services Platform 4450GTX-HT-PWR+ Switch, NN46251–304	This document provides procedures and conceptual information to install the VSP 4000 4450GTX-HTPWR+.
Virtual Services Platform 4000 4450GTX-HT-PWR+ Quick Install Guide, NN46251-306	This document provides quick installation instructions to install the VSP 4000 4450GTX-HTPWR+ switch.
Installing Avaya Virtual Services Platform 4450GSX-PWR+ Switch, NN46251-307	This document provides procedures and conceptual information to install the VSP 4000 4450GSX-PWR + .
ERS 4850 to VSP 4000 Quick Conversion, NN46251-400	This document provides procedures to convert an ERS 4850 to a VSP 4000 and a VSP 4000 to an ERS 4850.
Installing the Avaya Virtual Services Platform 8000 Series, NN47227-300	This document provides procedures and conceptual information to install the Avaya Virtual Services Platform 8000 Series.

Table continues...

Avaya technical document	Description
Installing Transceivers and Optical Components on VSP Operating System Software, NN47227-301	This document provides conceptual information and procedures to install SFP, SFP+, and QSFP+ transceivers.
Avaya Virtual Services Platform 8000 Series Quick Install Guide, NN47227-302	This document provides quick installation instructions to install the VSP 8000 Series hardware and software.
Quick Install Guide for Avaya Virtual Services Platform 7200 Series, NN47228-300	This document provides quick installation instructions to install the Avaya Virtual Services Platform 7200 Series.
Installing the Avaya Virtual Services Platform 7200 Series, NN47228-302	This document provides procedures and conceptual information to install the Avaya Virtual Services Platform 7200 Series.

Table 5: Installation and commissioning Job Aid documents

Avaya technical document	Description
Installation Job Aid (English) for Virtual Services Platform 4000 4450GTX-HT-PWR+, NN46251-305	This document provides job aids to install the VSP 4000 4450GTX-HT-PWR+.
Installation Job Aid (English) for Avaya Virtual Services Platform 4000 Series 4850GTS, NN46251-308	This document provides job aids to install the VSP 4000 VSP4850GTS Series.
Installation Job Aid (English) forAvaya Virtual Services Platform 4000 Series 4450GSX-PWR+, NN46251-309	This document provides job aids to install the VSP 4000 4450GSX-PWR+ .
Installation Job Aid for Avaya Virtual Services Platform 7200 Series, NN47228-301	This document provides job aids to install the Avaya Virtual Services Platform 7200 Series.

Table 6: Installation and commissioning reference documents

Avaya technical document	Description
Avaya Virtual Services Platform 4000 Series Regulatory Guide, NN46251-105	These documents provide information about regulatory conformities and compliance.
Regulatory Reference for Avaya Virtual Services Platform 8000 Series, NN47227-105	
Regulatory Reference for Avaya Virtual Services Platform 7200 Series, NN47228-101	
Locating the latest software and product release notes for Avaya Virtual Services Platform 4000 Series, NN46251-106	These documents ship with their respective VOSS components.
Locating Software and Release Notes for Avaya Virtual Services Platform 8000 Series, NN47227-106	
Locating Software and Release Notes for Avaya Virtual Services Platform 7200 Series, NN47228-100	

Administration and security

Administration and security documentation supports the configuration and management of systems data, resources, users, and security for the product.

Table 7: Administration and security documents

Avaya technical document	Description
Getting Started with Avaya PLDS for Avaya Networking Products, NN46199-300	This document is not product-specific and is intended to be referred to by all products that support PLDS.
	The Avaya Product Licensing and Delivery System (PLDS) provides customers, Avaya Partners, distributors, and Avaya Associates with tools for managing license entitlements and electronic delivery of software and related license files.
Administering	This document provides procedures and conceptual information to administer base system-level topics such as Domain Name System, network clock synchronization, and network time protocol.
	It also describes important administration procedures to upgrade software, save configurations and shutdown, restart or reset the VOSS switches.
Configuring Security	This document provides procedures and conceptual information to administer and configure security features for the VOSS switches.

Operations

Operations documentation enables you to configure services and applications, manage accounting and billing, and perform routine maintenance of hardware and software for the product.

Table 8: Operations documents

Avaya technical documents	Description
Configuring VLANs, Spanning Tree, and NLB	This document describes how to configure VLANs, Multiple Spanning Tree Protocol, and Rapid Spanning Tree Protocol.
	This document also includes information about how to configure Avaya Virtual Services Platform 7200 Series and 8000 Series with Network Load Balancer clusters.

Table continues...

Avaya technical documents	Description
Configuration - QoS and ACL-Based Traffic Filtering Avaya Virtual Services Platform 4000 Series, NN46251-502 Configuring QoS and ACL-Based Traffic Filtering	These documents provide procedures and conceptual information to administer and configure Quality of Service. These documents describe filters (access control lists, access control entries), policing, shaping, and DiffServ.
Configuring IP Multicast Routing Protocols	This document describes conceptual and procedural information to administer and configure IP Multicast Routing protocols.
Configuring IPv4 Routing	This document provides instructions to configure general routing operations.
Configuring OSPF and RIP	This document provides procedures and conceptual information to administer and configure Open Shortest Path First and the Routing Information Protocol.
Configuring Link Aggregation, MLT, SMLT, and vIST	This document describes how to configure and manage link aggregation and MultiLink Trunking.
Configuring IPv6 Routing on VSP Operating System Software, NN47227-507	This document provides instructions to configure IPv6 routing operations. Operations include TCP and UDP, DHCP Relay, VRRP, static routes, OSPFv3, and RSMLT.
Configuring BGP Services	This document describes the conceptual and procedural information to configure Border Gateway Protocol (BGP) services on VSP Operating System Software (VOSS). This includes the configuration of internal BGP (iBGP) and external BGP (eBGP).
Configuring Avaya Fabric Connect on VSP Operating System Software, NN47227-510	This document provides instructions to configure SPBM operations on VOSS. Operations include Shortest Path Bridging MAC (SPBM), Intermediate System to Intermediate System (IS-IS) and Connectivity Fault Management (CFM).
Configuring SPB-PIM Gateway	This document describes the conceptual and procedural information to configure PIM Gateway to provide multicast interdomain communication between an SPB network and a Protocol Independent Multicast-Sparse Mode (PIM-SM) network.

Fault and performance management

Fault and performance management documentation enables you to manage faults, and measure and optimize the performance of the product.

Table 9: Fault and performance management documents

Avaya technical documents	Description
Troubleshooting	This document describes common problems and error messages with the techniques to resolve them as well as information about traps and command logging.
	This document also provides information about troubleshooting tools.
Monitoring Performance	This document provides information about switch management tools, the dynamic network applications feature, and graphing of port and chassis statistics.
	This document also provides information about how to prevent faults and improve the performance of the product, including configuration procedures for link state change, key health indicators, and logs and traps.
Configuring the SLA Mon [™] Agent	This document provides conceptual and procedural information to perform end-to-end network Quality of Service (QoS) validation and to distribute monitoring devices.

Chapter 5: Text conventions

This section describes the text conventions used throughout the VSP Operating System Software (VOSS) documentation suite.

Plain Courier text

Plain Courier text indicates command names, options, and text that you must enter.

Example: Enter show ip route.

Plain Courier text also indicates command syntax and system output, for example, prompts and system messages.

Example: Error: Invalid command syntax [Failed][2013-03-22 13:37:03.303 -04:00]

Bold text

Bold text indicates the GUI object name you must act upon.

Example: Click OK.

Example: On the **Tools** menu, choose **Options**.

Special messages

A special message identifies a risk associated with an action. A special message can also explain how to avoid or reduce the risk. The following are examples of the different types of special messages and the purposes they serve.

Important:

This special message draws your attention to key information that does not carry with it the risk of personal injury, death, system failure, service interruption, loss of data, damage to equipment, or electrostatic discharge.



Voltage:

Risk of injury or death from high voltage or electric shock

This special message indicates where an immediate hazard exists that, if not avoided, can result in serious personal injury or death through high voltage or electric shock.



A Danger:

Risk of serious personal injury or death

This special message signals where an immediate hazard exists that, if not avoided, can result in minor or moderate personal injury.



Marning:

Risk of equipment damage

This special message warns that a potential hazard exists that, if not avoided, can result in harm to hardware or equipment.



Caution:

Risk of system failure, service interruption, loss of data, or harm to software

This special message cautions against practices that are not safe or are potential hazards not covered by danger or warning messages.



Electrostatic alert:

Risk of service loss from electrostatic discharge

This special message indicates the risk of electrostatic discharge from electrostatic-discharge sensitive (ESDS) devices. It cautions the user to observe precautions for handling ESDS devices.

Angle brackets

Angle brackets (< >) indicate that you choose the text to enter based on the description inside the brackets. Do not type the brackets when you enter the command.

Example: If the command syntax is cfm maintenance-domain maintenance-level <0-7>, you can enter cfm maintenance-domain maintenance-level 4.

Braces

Braces ({ }) indicate required elements in syntax descriptions. Do not type the braces when you enter the command.

Example: If the command syntax is ip address {A.B.C.D}, you must enter the IP address in dotted, decimal notation.

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 interface [gigabitethernet], you can enter either show ip interface Or show ip interface gigabitethernet.

Ellipses

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

Italic text

Italic text indicates book titles.

Example: Release Notes

Separator

A greater than sign (>) shows separation in menu paths.

Example: In the Navigation tree, open the following folders: Configuration > Edit.

Vertical line

A vertical line (|) 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 access-policy by-mac action { allow | deny } , you enter either access-policy by-mac action allow or access-policy by-mac action deny, but not both.

Chapter 6: Modular, task-based information

Modular, task-based information is organized by specific principles of structure, information type, and task focus. The documentation is based upon the tasks that the user must perform to fulfill their job function. The sequence and dependencies among the tasks is represented in work flows and task flows. The tasks are supported by conceptual and reference information.

Work flows and task flows

Task-based documentation emphasizes procedural information. Flowcharts provide the primary navigation to tasks and procedures whenever there is a required order and flow to the actions you must perform to complete a given job.

Work flows and task flows are flowcharts that illustrate which tasks or procedures and decisions occur in an activity. The flowcharts guide you through any type of activity on the product, whether it is initial installation, configuration, upgrades, routine maintenance, or troubleshooting.

Each flowchart provides the prerequisites and links to the tasks or procedures that you need to perform. Always follow the work flows and task flows so that you perform the required procedures in the correct order.

To understand the relationship between work flows, task flows, and procedures, see the following figure.

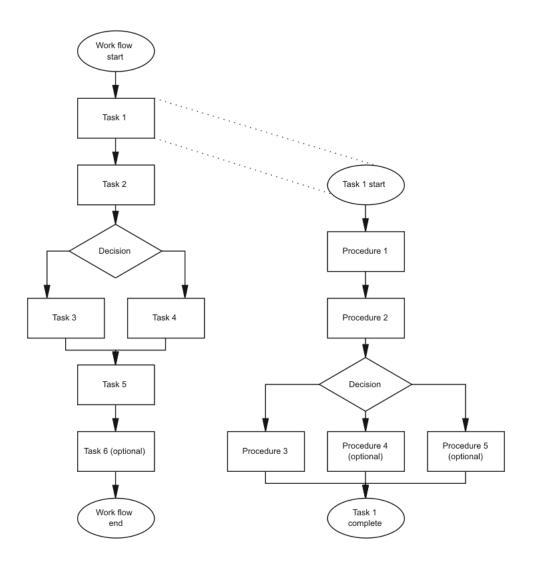


Figure 1: Work flows, task flows, and procedures in task-based documentation

Chapter 7: 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 a list of documentation for all VOSS products.

For installation and initial setup information of the Open Networking Adapter (ONA), refer to the Quick Install Guide that came with your ONA.



Note:

The ONA works only with the Avaya Virtual Services Platform 4000 Series.

Training

Ongoing product training is available. For more information or to register, you can access the Web site at http://avaya-learning.com/.

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 cproduct 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
- 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

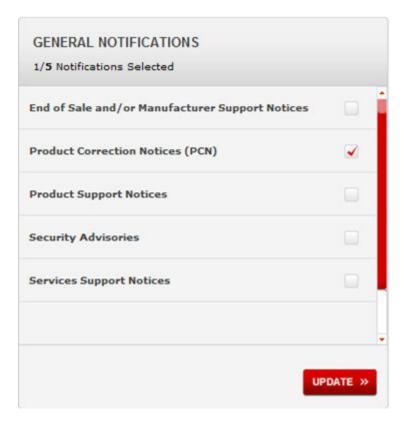
Subscribe to e-notifications to receive an email notification when documents are added to or changed on the Avaya Support website.

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 Virtual Services Platform 7000.

Procedure

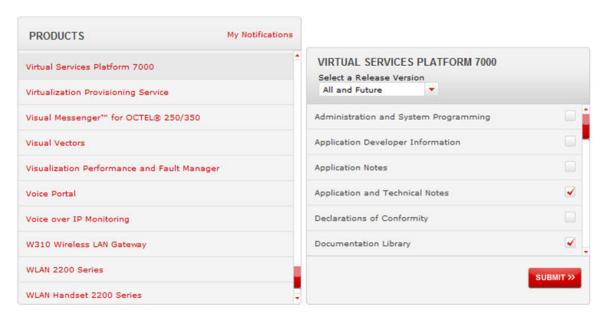
- 1. In an Internet browser, go to https://support.avaya.com.
- 2. Type your username and password, and then click **Login**.
- 3. Under My Information, select SSO login Profile.
- 4. Click E-NOTIFICATIONS.
- 5. In the GENERAL NOTIFICATIONS area, select the required documentation types, and then click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



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



- 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.



11. Click Submit.