



Avaya Virtual Services Platform 7000 Series Documentation Roadmap

10.0
NN47202-103, 01.03
August 2011

Notice

While reasonable efforts have been made to ensure that the information in this document is complete and accurate at the time of printing, Avaya assumes no liability for any errors. Avaya reserves the right to make changes and corrections to the information in this document without the obligation to notify any person or organization of such changes.

Documentation disclaimer

Avaya shall not be responsible for any modifications, additions, or deletions to the original published version of this documentation unless such modifications, additions, or deletions were performed by Avaya. End User agree to indemnify and hold harmless Avaya, Avaya's agents, servants and employees against all claims, lawsuits, demands and judgments arising out of, or in connection with, subsequent modifications, additions or deletions to this documentation, to the extent made by End User.

Link disclaimer

Avaya is not responsible for the contents or reliability of any linked web sites referenced within this site or documentation(s) provided by Avaya. Avaya is not responsible for the accuracy of any information, statement or content provided on these sites and does not necessarily endorse the products, services, or information described or offered within them. Avaya does not guarantee that these links will work all the time and has no control over the availability of the linked pages.

Warranty

Avaya provides a limited warranty on this product. Refer to your sales agreement to establish the terms of the limited warranty. In addition, Avaya's standard warranty language, as well as information regarding support for this product, while under warranty, is available to Avaya customers and other parties through the Avaya Support Web site: <http://www.avaya.com/support>. Please note that if you acquired the product from an authorized Avaya reseller outside of the United States and Canada, the warranty is provided to you by said Avaya reseller and not by Avaya.

Licenses

THE SOFTWARE LICENSE TERMS AVAILABLE ON THE AVAYA WEBSITE, [HTTP://SUPPORT.AVAYA.COM/LICENSEINFO/](http://support.avaya.com/licenseinfo/) ARE APPLICABLE TO ANYONE WHO DOWNLOADS, USES AND/OR INSTALLS AVAYA SOFTWARE, PURCHASED FROM AVAYA INC., ANY AVAYA AFFILIATE, OR AN AUTHORIZED AVAYA RESELLER (AS APPLICABLE) UNDER A COMMERCIAL AGREEMENT WITH AVAYA OR AN AUTHORIZED AVAYA RESELLER. UNLESS OTHERWISE AGREED TO BY AVAYA IN WRITING, AVAYA DOES NOT EXTEND THIS LICENSE IF THE SOFTWARE WAS OBTAINED FROM ANYONE OTHER THAN AVAYA, AN AVAYA AFFILIATE OR AN AVAYA AUTHORIZED RESELLER, AND AVAYA RESERVES THE RIGHT TO TAKE LEGAL ACTION AGAINST YOU AND ANYONE ELSE USING OR SELLING THE SOFTWARE WITHOUT A LICENSE. BY INSTALLING, DOWNLOADING OR USING THE SOFTWARE, OR AUTHORIZING OTHERS TO DO SO, YOU, ON BEHALF OF YOURSELF AND THE ENTITY FOR WHOM YOU ARE INSTALLING, DOWNLOADING OR USING THE SOFTWARE (HEREINAFTER REFERRED TO INTERCHANGEABLY AS "YOU" AND "END USER"), AGREE TO THESE TERMS AND CONDITIONS AND CREATE A BINDING CONTRACT BETWEEN YOU AND AVAYA INC. OR THE APPLICABLE AVAYA AFFILIATE ("AVAYA").

Copyright

Except where expressly stated otherwise, no use should be made of materials on this site, the Documentation(s) and Product(s) provided by Avaya. All content on this site, the documentation(s) and the product(s) provided by Avaya including the selection, arrangement and design of the content is owned either by Avaya or its licensors and is

protected by copyright and other intellectual property laws including the sui generis rights relating to the protection of databases. You may not modify, copy, reproduce, republish, upload, post, transmit or distribute in any way any content, in whole or in part, including any code and software. Unauthorized reproduction, transmission, dissemination, storage, and or use without the express written consent of Avaya can be a criminal, as well as a civil, offense under the applicable law.

Third-party components

Certain software programs or portions thereof included in the Product may contain software distributed under third party agreements ("Third Party Components"), which may contain terms that expand or limit rights to use certain portions of the Product ("Third Party Terms"). Information regarding distributed Linux OS source code (for those Products that have distributed the Linux OS source code), and identifying the copyright holders of the Third Party Components and the Third Party Terms that apply to them is available on the Avaya Support Web site: <http://www.avaya.com/support/Copyright/>.

Trademarks

The trademarks, logos and service marks ("Marks") displayed in this site, the documentation(s) and product(s) provided by Avaya are the registered or unregistered Marks of Avaya, its affiliates, or other third parties. Users are not permitted to use such Marks without prior written consent from Avaya or such third party which may own the Mark. Nothing contained in this site, the documentation(s) and product(s) should be construed as granting, by implication, estoppel, or otherwise, any license or right in and to the Marks without the express written permission of Avaya or the applicable third party.

Avaya is a registered trademark of Avaya Inc.

All other trademarks are the property of their respective owners.

Downloading documents

For the most current versions of documentation, see the Avaya Support Web site: <http://www.avaya.com/support>

Contact Avaya Support

Avaya provides a telephone number for you to use to report problems or to ask questions about your product. The support telephone number is 1-800-242-2121 in the United States. For additional support telephone numbers, see the Avaya Web site: <http://www.avaya.com/support>

Contents

Chapter 1: New in this release	5
Chapter 2: Roadmap	9
Customer documentation packaging.....	9
Product fundamentals.....	9
Installation and commissioning.....	10
Upgrades and patches.....	10
Operations.....	11
Administration and Security.....	11
Fault and Performance Management.....	11
Chapter 3: Information quality	13
Chapter 4: Text conventions	15
Angle brackets.....	15
Bold or Bold Courier text.....	15
Braces.....	15
Brackets.....	16
Ellipses.....	16
Italic text.....	16
Plain Courier text.....	17
Separator.....	17
Vertical bar.....	17
cr convention.....	17

Chapter 1: New in this release

This is a new document for Avaya Virtual Services Platform 7000 Release 10.0.

The Documentation Roadmap explains the organization of the technical documentation for VSP 7000 Series and you can use this roadmap to understand where you can find specific types of information in the customer documentation suite.

The Avaya VSP 7000 Series is new and supports the following hardware and software features:



Note:

USB functionality in Release 10.0 is a technology demonstration feature only. Avaya has determined that some USB devices can cause the USB port to become unresponsive or unusable. For more information, see *Avaya Virtual Services Platform 7000 Series Release 10.0 Release Notes*, NN47202-400.

Table 1: VSP 7000 hardware

Hardware	Description
AL700001F-E6	VSP 7024XLS chassis, 24 SFP+, Front 2 Back cooling and software (no power supply)
AL700001B-E6	VSP 7024XLS chassis, 24 SFP+, Back 2 Front cooling and software (no power supply)
<p>Note: You must order power supplies separately. The VSP 7000 Series determines the airflow mode based on the primary power supply installed in the chassis. Ensure that all power supplies and fans have matching airflow modes.</p>	
AL7000A0F-E6	VSP 7000 AC power supply, Front 2 Back cooling (NO PC)
AL7000B0F-E6	VSP 7000 AC power supply, Front 2 Back cooling (EU PC)
AL7000C0F-E6	VSP 7000 AC power supply, Front 2 Back cooling (UK PC)
AL7000D0F-E6	VSP 7000 AC power supply, Front 2 Back cooling (JP PC)
AL7000E0F-E6	VSP 7000 AC power supply, Front 2 Back cooling (NA PC)
AL7000F0F-E6	VSP 7000 AC power supply, Front 2 Back cooling (ANZ PC)
AL7000A0B-E6	VSP 7000 AC power supply, Back 2 Front cooling (NO PC)
AL7000B0B-E6	VSP 7000 AC power supply, Back 2 Front cooling (EU PC)
AL7000C0B-E6	VSP 7000 AC power supply, Back 2 Front cooling (UK PC)
AL7000D0B-E6	VSP 7000 AC power supply, Back 2 Front cooling (JP PC)

Hardware	Description
AL7000E0B-E6	VSP 7000 AC power supply, Back 2 Front cooling (NA PC)
AL7000F0B-E6	VSP 7000 AC power supply, Back 2 Front cooling (ANZ PC)
AL7000A1F-E6	VSP 7000 DC power supply, Front 2 Back cooling
AL7000A1B-E6	VSP 7000 DC power supply, Back 2 Front cooling
AL7000FTB-E6	VSP 7000 Front 2 Back spare fan trays (includes two fan tray kits)
AL7000BTF-E6	VSP 7000 Back 2 Front spare fan trays (includes two fan tray kits)
AL7011001-E6	VSP 7000 four post server rack mount kit
AL2011020-E6	Avaya Red DB-9 female to RJ45 adaptor. <ul style="list-style-type: none"> • converts DB-9 male port to RJ45 serial port. • can be used with CAT5 RJ45 straight cable for console connection.
AL2011021-E6	Avaya Blue DB-9 male to RJ45 adaptor. <ul style="list-style-type: none"> • converts DB-9 female port to RJ45 serial port. • can be used with CAT5 RJ45 straight cable for console connection.
AL2011022-E6	Avaya RJ45/DB-9 integrated console cable. 1.5 m cable with DB-9 female port and RJ45 console connection.

Software features:

- 128k MAC address table
- 802.1D compliancy
- 802.1D spanning tree
- ASCII Config Generator (ACG)
- ASCII download enhancements
- Autosave configuration
- Backup config file
- Bootp IPv4 address assignment
- Broadcast / Multicast limiting
- CLI quick start (no menu UI)
- CLI support
- CPU utilization
- DHCP client
- Dual Agent support

- Dual syslog server support
- Factory-default command
- Front 2 Back or Back 2 Front airflow support
- Improved syslog capabilities
- IP Manager (IPMGR)
- Memory utilization
- Multilink Trunking (MLT)
- MLT enable/disable whole trunk
- MLT scaling: 12 x 2-port MLTs and 3 x 4-port MLTs
- Ping command and TFTP file support
- Port mirroring (1:1)
- QoS: 8 hardware queues per port
- QoS: 802.1p support
- QoS: DSCP classification
- QoS: enable/disable
- QoS: queue set support
- Reload command
- RMON scaling
- RMON support
- Show environmental
- Show running-config defaults
- Show running-config specific
- SNMP
- SNMP trap notification
- SONMP
- Syslog support IPv4
- Telnet server IPv4 (max 4 sessions)
- TFTP IPv4 (download image, etc)
- USB ASCII config support
- Username password history
- Username password security
- VLAN: 802.1p/Q support

New in this release

- VLAN: port based VLANs
- Write memory and save config commands

Chapter 2: Roadmap

Customer documentation packaging

Avaya technical documents are organized according to job functions.

Roadmap

For information about how the Avaya Virtual Services Platform 7000 documentation suite is organized, see the following figure.

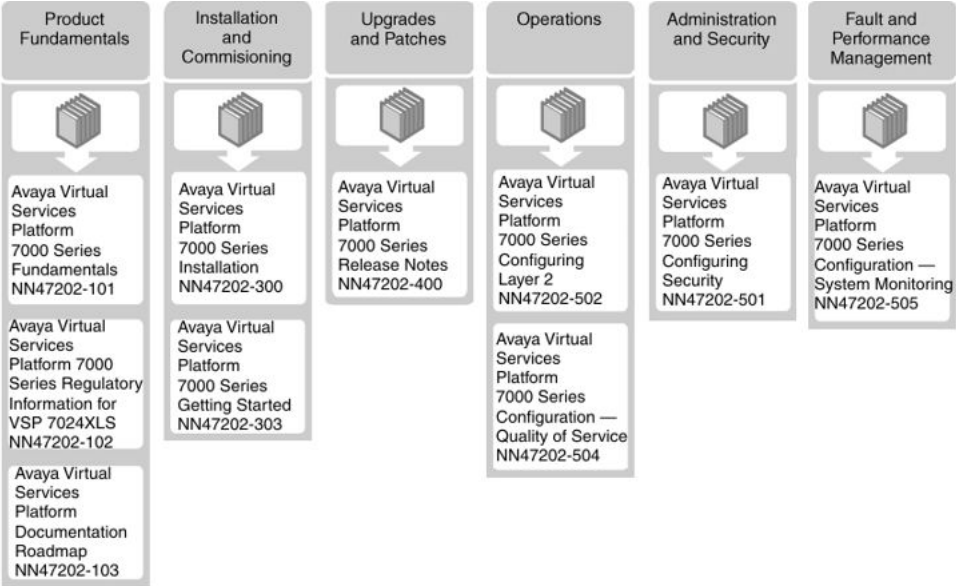


Figure 1: Avaya Virtual Services Platform 7000 Series documentation packaging

Product fundamentals

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

Document title	Description
<i>Avaya Virtual Services Platform 7000 Series Fundamentals</i> , NN47202–101	Describes user interfaces and information about feature licensing.
<i>Avaya Virtual Services Platform 7000 Series Regulatory Information</i> , NN47202–102	Provides regulatory information and precautionary messages.
<i>Avaya Virtual Services Platform 7000 Series Documentation Roadmap</i> , NN47202–103	Provides an overview of the documentation suite.

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.

Document title	Description
<i>Avaya Virtual Services Platform 7000 Series Installation</i> , NN47202–300	Provides instructions to install the switch and prepare for network connectivity.
<i>Avaya Virtual Services Platform 7000 Series Getting Started</i> , NN47202–303	Provides information and procedures to introduce the switch to the network and perform basic configuration tasks.

Upgrades and patches

Upgrades and patches documentation includes information to upgrade software and hardware components.

The following table describes upgrades and patches documents.

Document title	Description
Avaya Virtual Services Platform 7000 Series Release Notes, NN47202–400	Describes new features and important information about the latest release including a list of known issues with workarounds 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 operations documents.

Document title	Description
<i>Avaya Virtual Services Platform 7000 Series Configuring Layer 2</i> , NN47202–502	Provides procedures and conceptual information to configure Layer 2; can include VLANs, Spanning Tree, Link Aggregation Control Protocol, and Multi-Link Trunking.
<i>Avaya Virtual Services Platform 7000 Series Configuration — Quality of Service</i> , NN47202–504	Provides procedures and conceptual information to configure Quality of Service.

Administration and Security

Administration and Security documentation includes information that supports tasks that operations personnel perform that 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 administration and security documents.

Document title	Description
<i>Avaya Virtual Services Platform 7000 Series Configuration—Security</i> , NN47202–501	Provides procedures and conceptual information to administer and configure security features.

Fault and Performance Management

Fault and Performance Management documents include information that supports the tasks that operations personnel perform that 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.

Document title	Description
<i>Avaya Virtual Services Platform 7000 Series Configuration—System Monitoring, NN47202–505</i>	Provides information about system diagnostics tools including syslog, Remote Monitoring, port mirroring, and displaying port and chassis statistics.

Chapter 3: 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), and other stakeholder groups, all contribute to document quality.

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

Chapter 4: Text conventions

Angle brackets

When you see angle brackets in a command string they 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 `ping <ip_address>`, then you enter the following:

```
ping 192.32.10.12
```

Bold or Bold Courier text

Bold or **Bold Courier** text indicates command names, options, and text that you must enter.

Example

Use the `info` command.

Example

Enter `show ip {alerts | routes}`.

Example

Procotols, **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 `stack oper-mode {Pure | Hybrid}`, you must enter one of the following:

- `stack oper-mode Pure`
- `stack oper-mode Hybrid`

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 one of the following:

- `show ip interfaces`
- `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 the following:

`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

Avaya Virtual Services Platform 7000 Series Documentation Roadmap, NN47202–103

Plain Courier text

Plain Courier text indicates system output.

Example

Prompts and system messages like the following are presented in plain Courier text.

```
Set Trap Monitor Filters
```

Separator

A separator (>) is used to define menu paths.

Example

The following illustrates the IP command on the Protocols menu.

```
Protocols > IP
```

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 one of the following:

- `show ip alerts`
- `show ip routes`

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.

