



# **Documentation Roadmap Avaya Virtual Services Platform 9000**

3.2  
NN46250-100, 03.01  
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# Contents

<b>Chapter 1: Purpose of this document.....</b>	<b>5</b>
<b>Chapter 2: New in this release.....</b>	<b>7</b>
Features.....	7
Other changes.....	7
<b>Chapter 3: Technical documentation changes.....</b>	<b>9</b>
New documents.....	9
Restructured documents.....	9
Retired documents.....	9
<b>Chapter 4: Roadmap.....</b>	<b>11</b>
Avaya documentation packaging.....	11
Product fundamentals.....	13
Planning and engineering.....	14
Installation and commissioning.....	14
Upgrades and patches.....	15
Administration and security.....	15
Operations.....	16
Fault and performance management.....	17
<b>Chapter 5: Text conventions.....</b>	<b>19</b>
Plain Courier text.....	19
Bold text.....	19
Special messages.....	19
Angle brackets.....	20
Braces.....	21
Brackets.....	21
Ellipses.....	21
Italic text.....	21
Separator.....	21
Vertical line.....	22
<b>Chapter 6: Modular, task-based information.....</b>	<b>23</b>
Work flows and task flows.....	23
<b>Chapter 7: Customer service.....</b>	<b>25</b>
Getting technical documentation.....	25
Getting product training.....	25
Getting help from a distributor or reseller.....	25
Getting technical support from the Avaya Web site.....	25



# Chapter 1: Purpose of this document

This document describes information regarding the suite of documents supported in Release 3.2 of Avaya Virtual Services Platform 9000. Documentation Roadmap also describes how the content is organized across the documents suite.

Purpose of this document

# Chapter 2: New in this release

The following sections detail what is new in *Avaya Virtual Services Platform 9000 Documentation Roadmap*, NN46250–100, for Release 3.2 :

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## Features

There are no feature changes.

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## Other changes

See the following sections for information about changes that are not feature-related:

- [New documents](#) on page 9
- [Restructured documents](#) on page 9
- [Retired documents](#) on page 9

New in this release

# Chapter 3: Technical documentation changes

The following sections describe new, restructured, and retired documents in Avaya Virtual Services Platform 9000 Release 3.2 :

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## New documents

The following document is new in Release 3.2:

- *Avaya Virtual Services Platform 9000 Configuration — IPv6 Routing*, NN46250-509.

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## Restructured documents

The following document was restructured for the Avaya Virtual Services Platform 9000 in Release 3.2. The table maps the old document title to the restructured document title.

Information	Old document title	Restructured document title
Provisioning	<i>Avaya Virtual Services Platform 9000 Commissioning</i> , NN46250-300	<i>Avaya Virtual Services Platform 9000 Quick Start</i> , NN46250-102

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## Retired documents

The following documents were retired in Release 3.2:

- *Avaya Virtual Services Platform 9000 Terminology*, NN46250–101
- *Avaya Virtual Services Platform 9000 Commissioning*, NN46250–300

Technical documentation changes

# Chapter 4: Roadmap

Anyone performing work involving the Avaya Virtual Services Platform 9000 can use this section as a guide to finding information.

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## Avaya documentation packaging

Avaya technical documents are packaged according to customer-defined functional roles called job functions. See the following table for information about how the documentation suite is organized.

**Table 1: Technical documentation packaging**

Job function	Avaya technical documentation
Product fundamentals	<i>Avaya Virtual Services Platform 9000 Documentation Roadmap</i> , NN46250–100*
	<i>Avaya Virtual Services Platform Quick Start</i> , NN46250–102 *
	<i>Avaya Virtual Services Platform 9000 User Interface Fundamentals</i> , NN46250–103*
	<i>Avaya Virtual Services Platform 9000 Commands Reference — CLI</i> , NN46250–104*
	<i>Avaya Virtual Services Platform 9000 Platform Migration</i> , NN46250–107*
Planning and engineering	<i>Avaya Virtual Services Platform 9000 Planning and Engineering — Network Design</i> , NN46250–200*
Installation and commissioning	<i>Avaya Virtual Services Platform 9000 Installation — Modules</i> , NN46250–301 *
	<i>Avaya Virtual Services Platform 9000 Installation — Cooling Modules</i> , NN46250–302
	<i>Avaya Virtual Services Platform 9000 Installation — AC Power Supply</i> , NN46250–303

	<i>Avaya Virtual Services Platform 9000 Installation — Chassis, NN46250–304 *</i>
	<i>Avaya Virtual Services Platform 9000 Installation — SFP Hardware Components, NN46250–305</i>
Upgrades and patches	<i>Avaya Virtual Services Platform 9000 Upgrades and Patches, NN46250–400</i>
	<i>Avaya Virtual Services Platform 9000 Release Notes, NN46250–401*</i>
Administration and security	<i>Avaya Virtual Services Platform 9000 Administration, NN46250–600*</i>
	<i>Avaya Virtual Services Platform 9000 Security, NN46250–601 *</i>
Operations	<i>Avaya Virtual Services Platform 9000 Configuration — VLANs and Spanning Tree, NN46250–500*</i>
	<i>Avaya Virtual Services Platform 9000 Configuration —QoS and IP Filtering, NN46250–502</i>
	<i>Avaya Virtual Services Platform 9000 Configuration — Link Aggregation, MLT, and SMLT, NN46250–503</i>
	<i>Avaya Virtual Services Platform 9000 Configuration — IP Multicast Routing Protocols, NN46250–504 *</i>
	<i>Avaya Virtual Services Platform 9000 Configuration — IP Routing, NN46250–505*</i>
	<i>Avaya Virtual Services Platform 9000 Configuration — OSPF and RIP, NN46250–506</i>
	<i>Avaya Virtual Services Platform 9000 Configuration — BGP Services, NN46250–507 *</i>
	<i>Avaya Virtual Services Platform 9000 Configuration — Ethernet Modules, NN46250–508 *</i>
	<i>Avaya Virtual Services Platform 9000 Configuration — IPv6 Routing, NN46250–509 *</i>
Fault and performance management	<i>Avaya Virtual Services Platform 9000 Troubleshooting, NN46250–700*</i>

	<i>Avaya Virtual Services Platform 9000 Performance Management</i> , NN46250–701*
	<i>Avaya Virtual Services Platform 9000 Logs Reference</i> , NN46250–702 *
	<i>Avaya Virtual Services Platform 9000 Fault Management</i> , NN46250–703*
* updated in this release	

## 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
<i>Avaya Virtual Services Platform 9000 Documentation Roadmap</i> , NN46250-100	This document contains an overview of the documentation suite and explains how to use task-based documentation.
<i>Avaya Virtual Services Platform 9000 Quick Start</i> , NN46250-102	This document provides instructions to perform initial provisioning of the Virtual Services Platform 9000 software.
<i>Avaya Virtual Services Platform 9000 User Interface Fundamentals</i> , NN46250-103	This document describes how to navigate the Avaya command line interface, and how to use Enterprise Device Manager.
<i>Avaya Virtual Services Platform 9000 Commands Reference — CLI</i> , NN46250-104	This document provides default values and proper syntax for the Avaya command line interface commands.
<i>Avaya Virtual Services Platform 9000 Platform Migration</i> , NN46250-107	This document contains information and procedures for customers who plan to transition from the Avaya Ethernet Routing Switch 8000 series environment to the Avaya Virtual Services Platform 9000 environment. This document explains the key differences between the two platforms.

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## Planning and engineering

Planning and engineering documentation supports the planning and implementation of the product to meet engineering requirements and specifications.

**Table 3: Planning and engineering documents**

Avaya technical document	Description
<i>Avaya Virtual Services Platform 9000 Planning and Engineering — Network Design</i> , NN46250-200	This document provides information to help you build robust, efficient Virtual Services Platform 9000 networks. The document describes how to achieve redundancy, provide security and QoS, provides design examples and important design guidelines for many features and protocols, as well as concepts to plan Lossless Ethernet deployment.

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## 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
<i>Avaya Virtual Services Platform 9000 Installation — Cooling Modules</i> , NN46250-302	This document provides procedures to install cooling modules in the chassis.
<i>Avaya Virtual Services Platform 9000 Installation — Chassis</i> , NN46250-304	This document provides procedures and conceptual information to install the chassis in an equipment rack.
<i>Avaya Virtual Services Platform 9000 Installation — Modules</i> , NN46250-301	This document provides conceptual information and procedures to install interfaces modules in the chassis.
<i>Avaya Virtual Services Platform 9000 Installation — SFP Hardware Components</i> , NN46250-305	This document provides procedures to install small form factor pluggable and small form factor pluggable plus transceivers. The document includes specifications for these hardware components.

Avaya technical document	Description
<i>Avaya Virtual Services Platform 9000 Installation — AC Power Supply</i> , NN46250-303	This document provides instructions to install AC power supplies in the chassis.

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## Upgrades and patches

Upgrades and patches documentation enables you to install and manage patches for the current software release, and to upgrade hardware and software from one release to another for the product.

**Table 5: Upgrades and patches documents**

Avaya technical document	Description
<i>Avaya Virtual Services Platform 9000 Upgrades and Patches</i> , NN46250-400	This document provides upgrade and patching procedures for Virtual Services Platform 9000 and compatible modules.
<i>Avaya Virtual Services Platform 9000 Release Notes</i> , NN46250-401	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.

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## Administration and security

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

**Table 6: Administration and security documents**

Avaya technical document	Description
<i>Avaya Virtual Services Platform 9000 Security</i> , NN46250-601	This document provides procedures and conceptual information to administer and configure security features for the Avaya Virtual Services Platform 9000.
<i>Avaya Virtual Services Platform 9000 Administration</i> , NN46250-600	This document provides procedures and conceptual information to administer base

Avaya technical document	Description
	system-level topics such as Domain Name System, network clock synchronization, and network time protocol. The document also describes procedures and conceptual information to administer and configure VSP Talk.

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## 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 7: Operations documents**

Avaya technical documents	Description
<i>Avaya Virtual Services Platform 9000 Configuration — VLANs and Spanning Tree</i> , NN46250-500	This document describes how to configure VLANs, Multiple Spanning Tree Protocol, and Rapid Spanning Tree Protocol on the Virtual Services Platform 9000. This document also includes information about how to configure Virtual Services Platform 9000 with Network Load Balancer clusters.
<i>Avaya Virtual Services Platform 9000 Configuration — QoS and IP Filtering</i> , NN46250-502	This document provides procedures and conceptual information to administer and configure Quality of Service. This document describes filters (access control lists, access control entries), policing, shaping, and DiffServ.
<i>Avaya Virtual Services Platform 9000 Configuration — Link Aggregation, MLT, and SMLT</i> , NN46250-503	This document describes how to configure and manage link aggregation and MultiLink Trunking on the Virtual Services Platform 9000.
<i>Avaya Virtual Services Platform 9000 Configuration — IP Multicast Routing Protocols</i> , NN46250-504	This document provides procedures and conceptual information to administer and configure multicast routing protocols such as Internet Group Management Protocol and Protocol Independent Multicast-Sparse Mode.
<i>Avaya Virtual Services Platform 9000 Configuration — IP Routing</i> , NN46250-505	This document provides instructions to configure general routing operations on the Avaya Virtual Services Platform 9000.

Avaya technical documents	Description
	Operations include Address Resolution Protocol, reverse ARP, TCP and UDP, Dynamic Host Configuration Protocol Relay, Virtual Router Redundancy Protocol, VRF Lite, circuitless IP interfaces, static routes, Point-to-Point Protocol over Ethernet, Equal Cost Multipath, Routed Split Multi-Link Trunking, and routing policies.
<i>Avaya Virtual Services Platform 9000 Configuration — OSPF and RIP, NN46250-506</i>	This document provides procedures and conceptual information to administer and configure Open Shortest Path First and the Routing Information Protocol.
<i>Avaya Virtual Services Platform 9000 Configuration — BGP Services, NN46250-507</i>	This document provides procedures and conceptual information to administer and configure the Border Gateway Protocol, an interdomain routing protocol that provides loop-free interdomain routing in and between autonomous systems.
<i>Avaya Virtual Services Platform 9000 Configuration — Ethernet Modules, NN46250-508</i>	This document describes how to configure and monitor the Ethernet modules, including Lossless Ethernet configuration on 10 GbE ports.
<i>Avaya Virtual Services Platform 9000 Configuration — IPv6 Routing, NN46250-509</i>	This document provides instructions to configure IPv6 routing operations on the Avaya Virtual Services Platform 9000. Operations include TCP and UDP, DHCP Relay, VRRP, static routes, OSPFv3, and RSMLT.

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## Fault and performance management

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

**Table 8: Fault and performance management documents**

Avaya technical documents	Description
<i>Avaya Virtual Services Platform 9000 Troubleshooting, NN46250-700</i>	This document describes common problems and error messages with the techniques to resolve them as well as information about traps and command logging.

Avaya technical documents	Description
	This document also provides information on troubleshooting tools, for example, port and remote mirroring.
<i>Avaya Virtual Services Platform 9000 Performance Management, NN46250-701</i>	This document provides information about switch management tools, the dynamic network applications feature, Simple Network Management Protocol, Remote Monitoring, IPFIX, and graphing of port and chassis statistics.
<i>Avaya Virtual Services Platform 9000 Logs Reference, NN46250-702</i>	This document provides a reference for the log messages generated by the system.
<i>Avaya Virtual Services Platform 9000 Fault Management, NN46250-703</i>	This document provides information about how to prevent faults and improve the performance of the product. This document includes configuration procedures for RMON, link state change, key health indicators, and logs and traps.

# Chapter 5: Text conventions

This section describes the text conventions used throughout the Avaya Virtual Services Platform 9000 documentation suite.

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## 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][2005-06-22 13:37:03.303 -04:00]`

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## Bold text

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

Example: Click **OK**.

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

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## 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.

 **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.

 **Warning:**

**Risk of minor or moderate personal injury**

This special message warns that a potential hazard exists that, if not avoided, can result in minor or moderate personal injury.

 **Caution:**

**Risk of system failure, service interruption, loss of data, or equipment damage**

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.

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## 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 `boot config flags fabric profile <1-3>`, you can enter `boot config flags fabric profile 1`.

---

## 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.

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## 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`.

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## 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.

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## Italic text

*Italic* text indicates book titles.

Example: *Avaya Virtual Services Platform 9000 Release Notes*

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## Separator

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

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

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## 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 `boot config flags spanning-tree-mode <mstp|rstp>`, you enter either `boot config flags spanning-tree-mode mstp` or `boot config flags spanning-tree-mode rstp`, 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.

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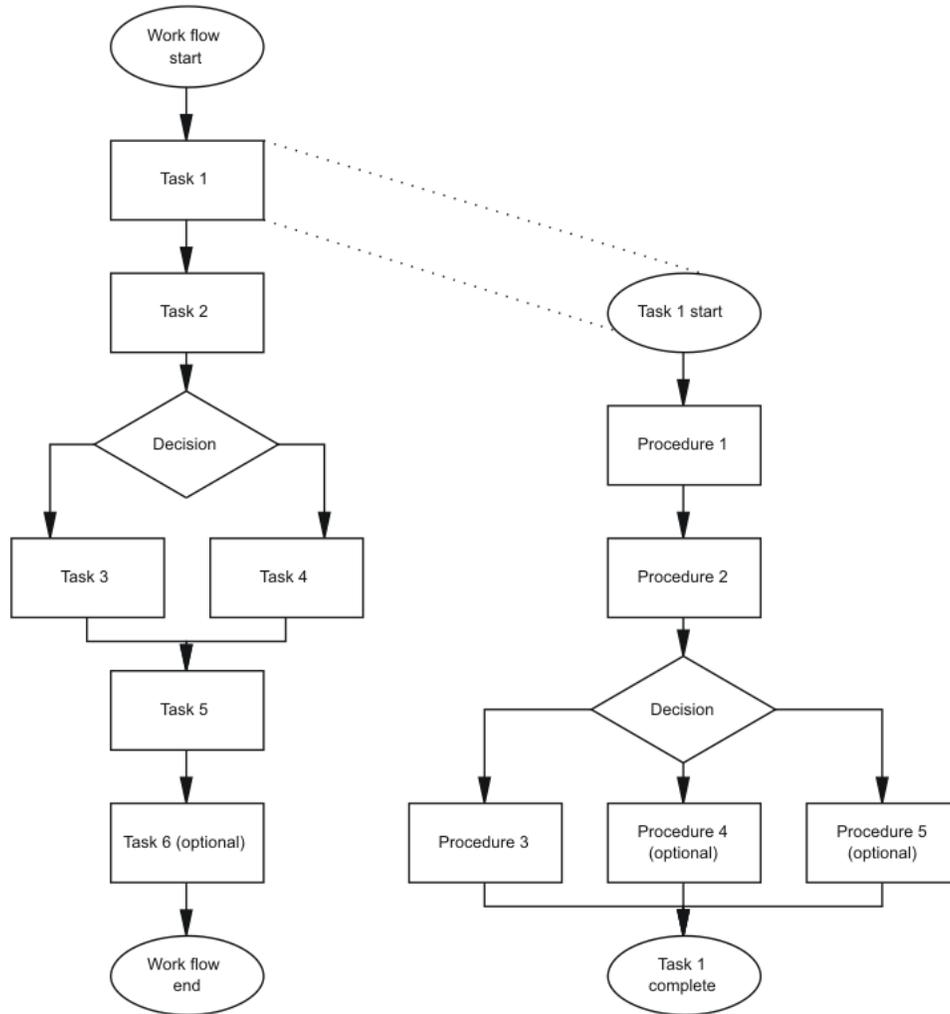
## Work flows and task flows

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: Customer service

Visit the Avaya Web site to access the complete range of services and support that Avaya provides. Go to [www.avaya.com](http://www.avaya.com) or go to one of the pages listed in the following sections.

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## Getting technical documentation

To download and print selected technical publications and release notes directly from the Internet, go to [www.avaya.com/support](http://www.avaya.com/support).

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## Getting product training

Ongoing product training is available. For more information or to register, you can access the Web site at [www.avaya.com/support](http://www.avaya.com/support). From this Web site, you can locate the Training contacts link on the left-hand navigation pane.

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## Getting help from a distributor or reseller

If you purchased a service contract for your Avaya product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance.

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## Getting technical support from the Avaya Web site

The easiest and most effective way to get technical support for Avaya products is from the Avaya Technical Support Web site at [www.avaya.com/support](http://www.avaya.com/support).

