



Documentation Reference for Avaya Virtual Services Platform 7200 Series and 8000 Series

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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 Avaya Virtual Services Platform 7200 Series and 8000 Series switches. It also describes how the content is organized across the documents suite.

For information on documentation road map for Avaya Virtual Services Platform 4000 Series, see *Documentation Roadmap for Avaya Virtual Services Platform 4000 Series*, NN46251-100.

Related resources

Documentation

See the *Documentation Reference for Avaya Virtual Services Platform 7200 Series and 8000 Series*, NN47227-100 for a list of the documentation for this product.

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.

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

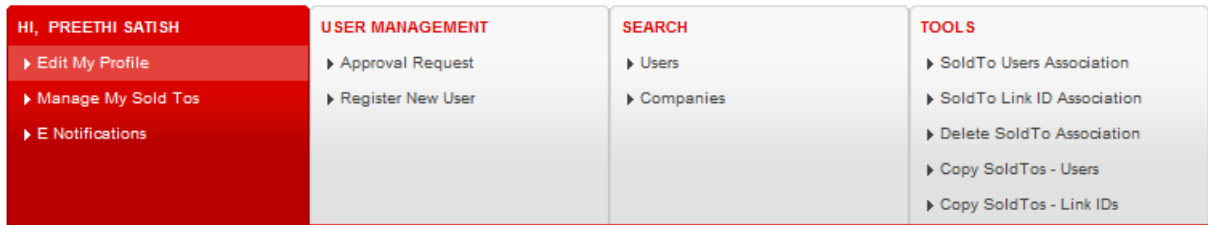
You can subscribe to different types of general notifications, for example, Product Correction Notices (PCN), which apply to any product or a specific product. You can also subscribe to specific types of documentation for a specific product, for example, Application & Technical Notes for Ethernet Routing Switch 8800.

Procedure

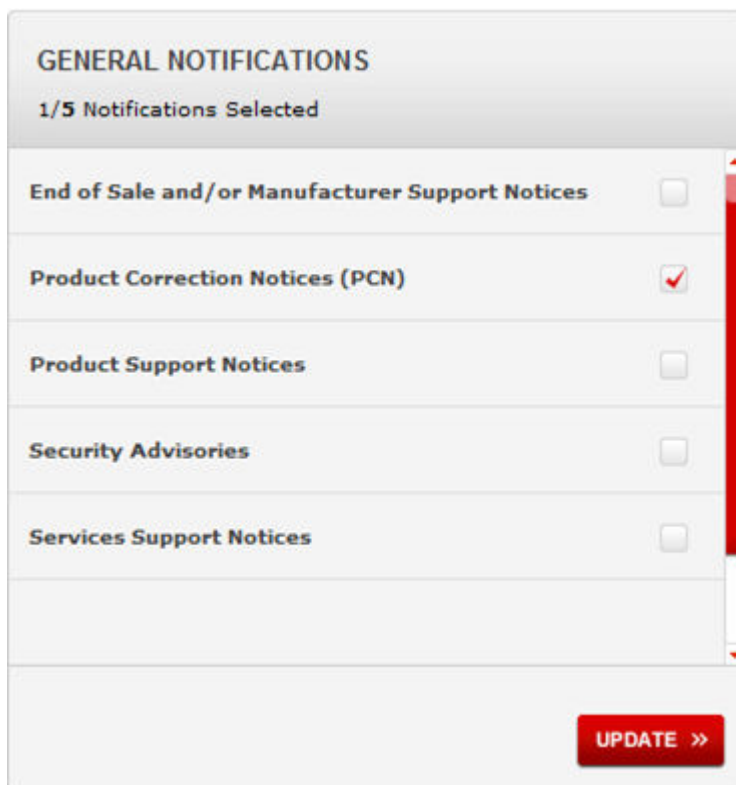
1. In an Internet browser, go to <https://support.avaya.com>.
2. Type your username and password, and then click **Login**.
3. Click **MY PROFILE**.



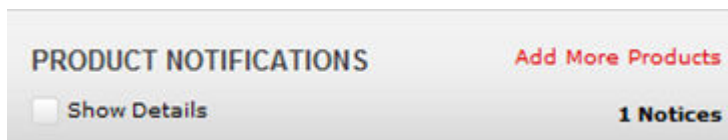
- On the site toolbar, click your name, and then click **E Notifications**.



- In the GENERAL NOTIFICATIONS area, select the required documentation types, and then click **UPDATE**.



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



- 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 for selecting a product and its documentation. On the left, under the heading 'PRODUCTS', there is a list of products including 'Virtual Services Platform 7000', 'Virtualization Provisioning Service', 'Visual Messenger™ for OCTEL® 250/350', 'Visual Vectors', 'Visualization Performance and Fault Manager', 'Voice Portal', 'Voice over IP Monitoring', 'W310 Wireless LAN Gateway', 'WLAN 2200 Series', and 'WLAN Handset 2200 Series'. On the right, under the heading 'VIRTUAL SERVICES PLATFORM 7000', there is a 'Select a Release Version' dropdown menu set to 'All and Future'. Below this, there is a list of documentation types with checkboxes: 'Administration and System Programming', 'Application Developer Information', 'Application Notes', 'Application and Technical Notes' (checked), 'Declarations of Conformity', and 'Documentation Library' (checked). A red 'SUBMIT >>' button is located at the bottom right of the right-hand panel.

11. Click **Submit**.

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.

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.

Chapter 2: New in this release

The following sections detail what is new in *Documentation Reference for Avaya Virtual Services Platform 7200 Series and 8000 Series*, NN47227-100.

Features

There are no feature changes for this document.

Other changes

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

Other document changes

See the following section for information about other document changes:

- [New documents](#) on page 11.
- [Restructured documents](#) on page 11.
- [Retired documents](#) on page 12.

Chapter 3: Technical documentation changes

This chapter describes the new, restructured, and retired documents for Avaya Virtual Services Platform 7200 Series and 8000 Series.

New documents

VOSS 4.2.1

The following documents are new in VOSS 4.2.1:

- *Locating Software and Release Notes for Avaya Virtual Services Platform 7200 Series*, NN47228-100
- *Regulatory Reference for Avaya Virtual Services Platform 7200 Series*, NN47228-101
- *Quick Install Guide for Avaya Virtual Services Platform 7200 Series*, NN47228-300
- *Installation Job Aid for Avaya Virtual Services Platform 7200 Series*, NN47228-301
- *Installing the Avaya Virtual Services Platform 7200 Series*, NN47228-302

VOSS 4.2

No new documents were introduced in this release.

Restructured documents

Documentation title changes in VOSS 4.2.1

The Avaya Virtual Services Platform 8000 Series documentation suite document titles have been renamed to refer to both Virtual Services Platform 7200 Series and 8000 Series. In addition, the following document is restructured and renamed to include the VSP 4000 Series.

Old document title	New document title
<i>Configuring Avaya VENA Fabric Connect on Avaya Virtual Services Platform 8000 Series</i> , NN47227-510	<i>Configuring Avaya Fabric Connect on VSP Operating System Software</i> , NN47227-510

The following two documents have been renamed to refer to VSP Operating System Software.

Old document title	New document title
<i>Configuring IPv6 Routing on Avaya Virtual Services Platform 4000 Series and 8000 Series, NN47227-507</i>	<i>Configuring IPv6 Routing on VSP Operating System Software, NN47227-507</i>
<i>Release Notes for Avaya Virtual Services Platform 4000 Series and 8000 Series, NN47227-401</i>	<i>Release Notes for VSP Operating System Software, NN47227-401</i>

Documentation title changes in VOSS 4.2

The Avaya Virtual Services Platform 8200 Series documentation suite document titles have been renamed to refer to the Virtual Services Platform 8000 Series. The VSP 8000 series includes both the VSP 8200 series and the VSP 8400 series platforms. In addition, the following two documents have been restructured and renamed to also include the VSP 4000 series.

Old document title	New document title
<i>Configuring IPv6 Routing on Avaya Virtual Services Platform 8200, NN47227-507</i>	<i>Configuring IPv6 Routing on Avaya Virtual Services Platform 4000 Series and 8000 Series, NN47227-507</i>
<i>Release notes for Avaya Virtual Services Platform 8200, NN47227-401</i>	<i>Release Notes for Avaya Virtual Services Platform 4000 Series and 8000 Series, NN47227-401</i>

Retired documents

No documents were retired in this release.

Chapter 4: Roadmap

Use this section as a guide to find information to perform work involving the VSP 7200 Series and VSP 8000 Series.

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 1: Product fundamentals documents

Avaya technical document	Description
<i>Documentation Reference for Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-100</i>	This document contains an overview of the documentation suite and explains how to use task-based documentation.
<i>Quick Start Configuration for Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-102</i>	This document provides instructions to perform initial provisioning of the software.
<i>Using ACLI and EDM on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-103</i>	This document describes how to navigate the Avaya command line interface, and how to use Enterprise Device Manager.
<i>ACLI Commands Reference for Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-104</i>	This document provides default values and proper syntax of the Avaya command line interface commands.

Upgrades

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

Table 2: Upgrades documents

Avaya technical document	Description
<i>Release Notes for VSP Operating System Software, NN47227-401</i>	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 3: Installation and commissioning documents

Avaya technical document	Description
<i>Regulatory Reference for Avaya Virtual Services Platform 8000 Series, NN47227-105</i>	This document provides information about regulatory conformities and compliance.
<i>Locating Software and Release Notes for Avaya Virtual Services Platform 8000 Series, NN47227-106</i>	This document ships with Avaya Virtual Services Platform 8000 Series components.
<i>Installing the Avaya Virtual Services Platform 8000 Series, NN47227-300</i>	This document provides procedures and conceptual information to install the Avaya Virtual Services Platform 8000 Series.
<i>Installing Transceivers and Optical Components on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-301</i>	This document provides conceptual information and procedures to install SFP, SFP+, and QSFP+ transceivers.
<i>Avaya Virtual Services Platform 8000 Series Quick Install Guide, NN47227-302</i>	This document provides quick installation instructions to install the VSP 8000 Series hardware and software.
<i>Locating Software and Release Notes for Avaya Virtual Services Platform 7200 Series, NN47228-100</i>	This document ships with the Avaya Virtual Services Platform 7200 Series components.
<i>Regulatory Reference for Avaya Virtual Services Platform 7200 Series, NN47228-101</i>	This document provides information about regulatory conformities and compliance for the Avaya Virtual Services Platform 7200 Series.
<i>Installation Job Aid for Avaya Virtual Services Platform 7200 Series, NN47228-301</i>	This document provides job aids to install the Avaya Virtual Services Platform 7200 Series.
<i>Quick Install Guide for Avaya Virtual Services Platform 7200 Series, NN47228-300</i>	This document provides quick installation instructions to install the Avaya Virtual Services Platform 7200 Series.

Table continues...

Avaya technical document	Description
<i>Installing the Avaya Virtual Services Platform 7200 Series</i> , NN47228-302	This document provides procedures and conceptual information to install the Avaya Virtual Services Platform 7200 Series.

Administration and security

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

Table 4: Administration and security documents

Avaya technical document	Description
<i>Administering Avaya Virtual Services Platform 7200 Series and 8000 Series</i> , NN47227-600	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.
<i>Configuring Security on Avaya Virtual Services Platform 7200 Series and 8000 Series</i> , NN47227-601	This document provides procedures and conceptual information to administer and configure security features for the Avaya Virtual Services Platform 7200 Series and 8000 Series.
<i>Getting Started with Avaya PLDS for Avaya Networking Products</i> , NN46199-300	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. This document is not product-specific and is intended to be referred to by all products that support PLDS.

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 5: Operations documents

Avaya technical documents	Description
<i>Configuring VLANs, Spanning Tree, and NLB on Avaya Virtual Services Platform 7200 Series and 8000 Series</i> , NN47227-500	This document describes how to configure VLANs, Multiple Spanning Tree Protocol, and Rapid Spanning Tree Protocol.

Table continues...

Avaya technical documents	Description
	This document also includes information about how to configure Avaya Virtual Services Platform 7200 Series and 8000 Series with Network Load Balancer clusters.
<i>Configuring QoS and ACL-Based Traffic Filtering on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-502</i>	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>Configuring Link Aggregation, MLT, SMLT, and vIST on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-503</i>	This document describes how to configure and manage link aggregation, MultiLink Trunking, Split MultiLink Trunking, and Virtual Interswitch Trunk.
<i>Configuring IP Multicast Routing Protocols on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-504</i>	This document describes conceptual and procedural information to administer and configure IP Multicast Routing protocols.
<i>Configuring IP Routing on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-505</i>	This document provides instructions to configure general routing operations.
<i>Configuring OSPF and RIP on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-506</i>	This document provides procedures and conceptual information to administer and configure Open Shortest Path First and the Routing Information Protocol.
<i>Configuring IPv6 Routing on VSP Operating System Software, NN47227-507</i>	This document provides conceptual and procedural information to configure IPv6 routing operations. Included in this document are Operations, Administration, and Management (OA&M), DHCP Relay, Virtual Router Redundancy Protocol (VRRP), static routes, Open Shortest Path First version 3 (OSPFv3), IPv6 tunnels, and Routed Split MultiLink Trunking (RSMLT).
<i>Configuring BGP Services on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-508</i>	This document describes the conceptual and procedural information to configure Border Gateway Protocol (BGP) services. This includes the configuration of internal BGP (iBGP) and external BGP (EBGP).
<i>Configuring Avaya Fabric Connect on VSP Operating System Software, NN47227-510</i>	This document provides instructions to configure SPBM operations. Operations include Shortest Path Bridging MAC (SPBM), Intermediate System to Intermediate System (IS-IS) and Connectivity Fault Management (CFM).

Fault and performance management

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

Table 6: Fault and performance management documents

Avaya technical documents	Description
<i>Troubleshooting Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-700</i>	<p>This document describes common problems and error messages with the techniques to resolve them as well as information about traps and command logging.</p> <p>This document also provides information on troubleshooting tools.</p>
<i>Monitoring Performance on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-701</i>	<p>This document provides information about switch management tools, the dynamic network applications feature, Simple Network Management Protocol, and graphing of port and chassis statistics.</p>
<i>Managing Faults on Avaya Virtual Services Platform 7200 Series and 8000 Series, NN47227-702</i>	<p>This document provides information about how to prevent faults and improve the performance of the product. This document includes configuration procedures for link state change, key health indicators, and logs and traps.</p>

Chapter 5: Text conventions

This section describes the text conventions used throughout the Avaya Virtual Services Platform 7200 Series and 8000 Series 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.

 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 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.

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.

Example: *Release Notes for VSP Operating System Software*, NN47227-401

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.

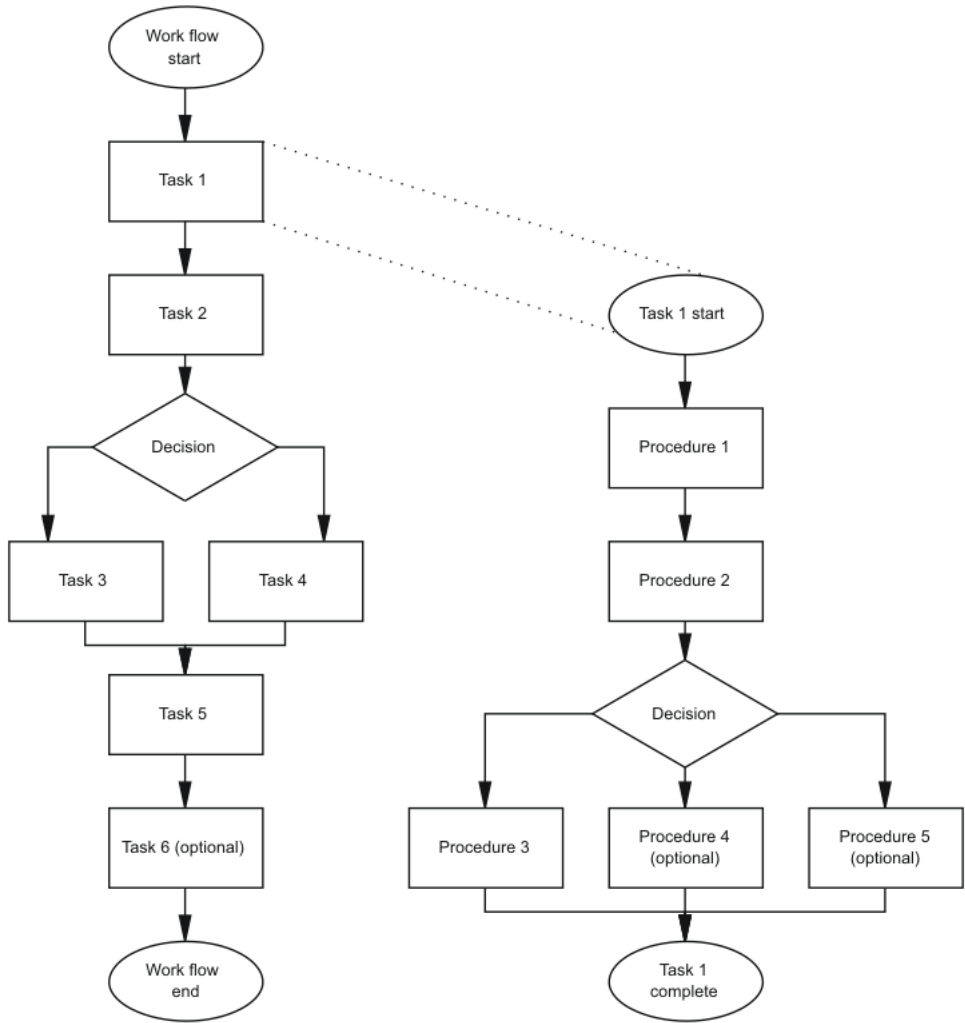


Figure 1: Work flows, task flows, and procedures in task-based documentation