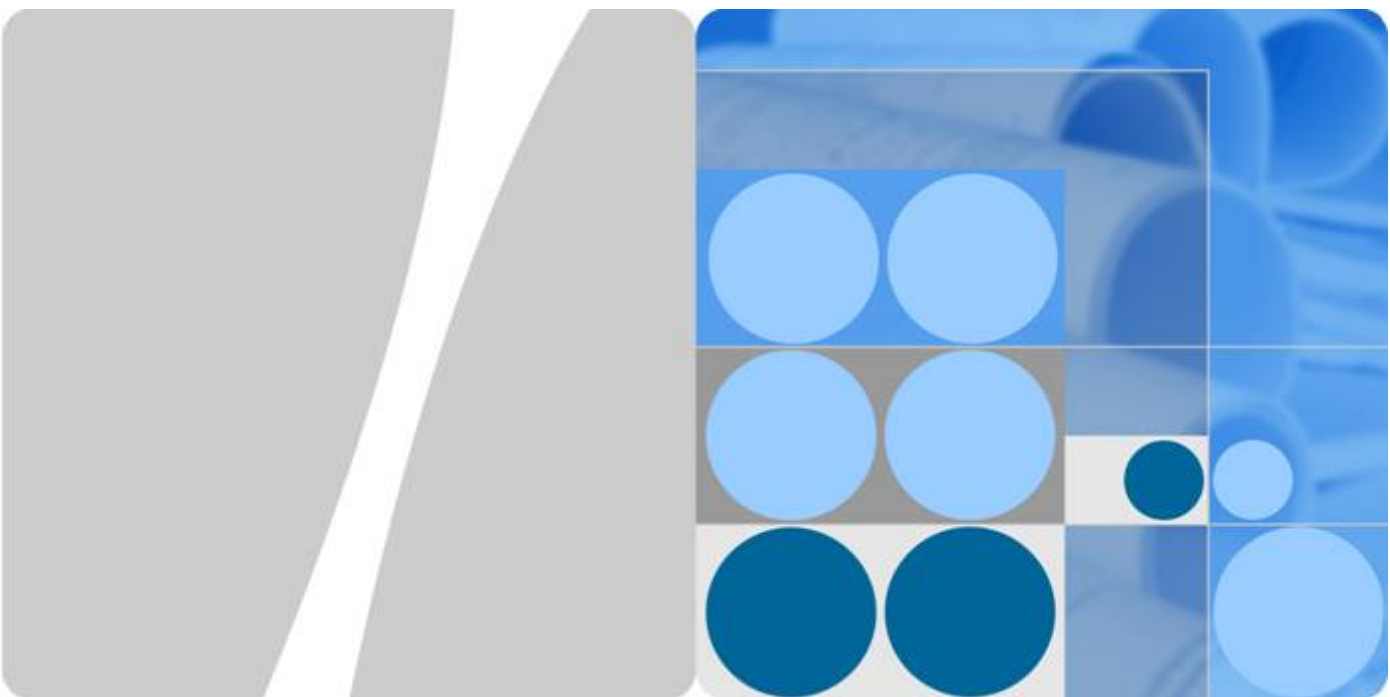




Quidway S6700 Series Ethernet Switches

V100R006C00

Documentation Guide

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1 Library Overview

About This Chapter

[1.1 Version Mapping](#)

This section describes the mappings between a S6700 and the NMS.

[1.2 About This Document](#)

[1.3 How to Use Documentation](#)

This section describes the usage of the S6700 documentation to help you obtain the required documents quickly.

[1.4 Documentation Content](#)

This section describes the documents included in the S6700 documentation package to help you find the required documents when solving problems during product configuration and maintenance.

[1.5 Documentation Conventions](#)

This section describes the meanings of symbols used in the documentation.

[1.6 Documentation Development](#)

The development of product documents is an engineering process by which the document deliverables are provided for users. The process involves several phases such as planning, development, and commercialization. The product documents are developed along with the product software and hardware, which involves requirement analysis, design, development, and test.

[1.7 Documentation Access and Feedback](#)

This section provides ways to obtain the documentation and provide feedback.

[1.8 How to Obtain Technical Support](#)

During the equipment operation and maintenance, if a fault occurs and is difficult to locate or rectify, or if you cannot rectify the fault by referring to the after-sales customer documentation, contact Huawei Customer Service Center to obtain technical support.

1.1 Version Mapping

This section describes the mappings between a S6700 and the NMS.

Table 1-1 Version mapping between the S6700 and the U2000

Product	Version
S6700	V100R006C00
U2000	V100R005C00

1.2 About This Document

Intended Audience

This document describes the components, usage, and release modes of the documentation of the S6700.

This document helps you correctly use the documentation of the S6700 and effectively obtain the required documents.

NOTE

Before using Huawei device and documentation for the first time, read this guide to know Huawei's documentation system so that you can use the package of documents properly.

This document is intended for:

- Network planning engineers
- Hardware installation engineers
- Commissioning engineers
- On-site maintenance engineers
- System maintenance engineers

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 DANGER	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.
 WARNING	Indicates a hazard with a medium or low level of risk, which if not avoided, could result in minor or moderate injury.

Symbol	Description
 CAUTION	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 TIP	Indicates a tip that may help you solve a problem or save time.
 NOTE	Provides additional information to emphasize or supplement important points of the main text.

Change History

Changes between document issues are cumulative. Therefore, the latest document issue contains all changes made in previous issues.

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1.3 How to Use Documentation

This section describes the usage of the S6700 documentation to help you obtain the required documents quickly.

1.3.1 Using the Documentation According to the Roles of Users

Users have different roles according to their responsibilities on a network. Users of different roles can obtain different documents according to their responsibilities.

Table 1-2 Using the documentation according to the roles of users

Role of a User	Responsibility	Reference	
		Main Document	Reference Document
Network planning engineer	Is responsible for planning, designing, and optimizing the entire network, including the engineering design and the design of the scheme for upgrading and expanding the network.	● Documentation Guide ● Product Description ● Feature Description ● Hardware Description	-

Role of a User	Responsibility	Reference	
		Main Document	Reference Document
Hardware installation engineer	Is responsible for installing the hardware of the device according to the hardware planning and scheme of the project, including: ● Checking the installation environment ● Preparing the installation environment ● Preparing power modules ● Preparing installation ● Laying out cables The installation must meet the acceptance requirements.	● Quick Installation Guide	● Documentation Guide ● Product Description ● Hardware Description
Commissioning engineer	Is responsible for switching on the device, commissioning the device, commissioning circuits, commissioning and deploying services, and cutting over services according to the service planning of the project and design scheme, and delivering the network to the maintenance department after the acceptance is completed.	Configuration Guide	● Documentation Guide ● Quick Installation Guide ● Product Description ● Hardware Description ● Feature Description ● Troubleshooting ● Command Reference ● Alarm Reference ● Log Reference

Role of a User	Responsibility	Reference	
		Main Document	Reference Document
Data configuration engineer	Is responsible for configuring data and deploying services on the device by using commands of the switch or through the NMS.	Configuration Guide	● Documentation Guide ● Command Reference ● Product Description ● Hardware Description ● Feature Description
On-site maintenance engineer	Is responsible for operating and maintaining the device on site, including: ● Monitoring the environment ● Cleaning the dust ● Cleaning and replacing air filters ● Replacing parts ● Upgrading software versions ● Cutting over circuits	● Quick Installation Guide	● Documentation Guide ● Hardware Description ● Product Description
Network monitoring engineer	Is responsible for monitoring the network 24 hours a day according to a provider's strategy, maintaining the network routinely and rectifying minor faults, handling customers' complaints, requesting system maintenance engineers to process complicated faults, taking immediate actions to maintain the device under a system maintenance engineer's instruction or delivering it to a system maintenance engineer when a critical fault occurs, and monitoring the network by using the NMS or the commands of a switch.	● Alarm Reference	● Documentation Guide ● Product Description ● Configuration Guide ● Troubleshooting ● Command Reference ● Log Reference

Role of a User	Responsibility	Reference	
		Main Document	Reference Document
System maintenance engineer	Is responsible for maintaining the running devices, especially for troubleshooting of the system of the switch and network management system, and be responsible for coordinating and supervising large-scale upgrading of the software version of the switch, or reviewing the small-scale upgrading of the version of the software of the switch.	Troubleshooting	● Documentation Guide ● Quick Installation Guide ● Product Description ● Feature Description ● Hardware Description ● Configuration Guide ● Command Reference ● Alarm Reference ● Log Reference
Network administrator	Is responsible for managing and maintaining the NMS.	Package of documents for the NMS	

NOTE

Documents are classified into main documents and reference documents.

- A main document is mainly used by a user in a specific scenario.
- A reference document, which supplements the main document, instructs users to complete the tasks in a specific scenario.

For example, to perform a configuration task, an operator may need to read the Configuration Guide to be familiar with the procedure for performing the configuration task. In addition, the operator needs to read the Command Reference to know about the usage and the value range of the parameters of the related commands. In this scenario, the Configuration Guide is a main document and the Command Reference is a reference document.

1.3.2 Using the Documentation According to the Life Cycle of the Product

The tasks of the product performed by the user is related to the life cycle of the product. According to the tasks performed by the user on the product, the life cycle of the S6700 is classified into network planning, network deployment, service commissioning and deployment, network maintenance, and network upgrading. You can select proper references according to the life cycle of the product.

Table 1-3 Using the documentation according to the life cycle of the product

Life Cycle Phase	Main Task	Reference	
		Main Document	Reference Document
Network planning	Determining the network scale, networking, and hardware configuration process of the network elements, and data configuration process according to the network and requirements for building the network	● Documentation Guide ● Product Description ● Feature Description ● Hardware Description	-
Network deployment	● Surveying the project ● Preparing the environment ● Installing the device ● Commissioning the device	● Quick Installation Guide ● Hardware Description	-
Service deployment and commissioning	● Setting up a network ● Deploying services ● Configuring data ● Managing and maintaining services	● Configuration Guide ● Command Reference	-
Network maintenance	● Monitoring the network ● Performing routine maintenance and emergency maintenance ● Troubleshooting faults ● Replacing parts	● Alarm Reference ● Troubleshooting	● Configuration Guide ● Command Reference
Network upgrading	● Upgrading the version ● Upgrading patches	Release Notes	● Configuration Guide ● Command Reference

1.4 Documentation Content

This section describes the documents included in the S6700 documentation package to help you find the required documents when solving problems during product configuration and maintenance.

1.4.1 Product Documents

The following table lists the product documents and provides paths of the documents on HedEx.

Table 1-4 S6700 product documents

Document	Description	Path on HedEx
Documentation Guide	Describes the after-sales customer documentation and how to obtain the documentation.	From Here
Product Description	Describes the positioning, characteristics, structure, interfaces and protocols, networking and applications, device management, technical specifications, and standards compliance of the S6700.	Description > Product Description
Hardware Description	Describes the hardware configuration, boards, and cables of the S6700.	Description > Hardware Description
Feature Description	Describes the definition, purpose, specifications, standards and protocols compliance, deployment scenarios, principles, and applications of each feature that the S6700 supports.	Description > Feature Description
Quick Installation Guide	Illustrates device installation procedures by using figures.	Installation
Configuration Guide	Describes S6700 configuration roadmaps, configuration procedures, and configuration examples.	CLI-based Configuration
Alarm Reference	Describes alarms that may generate on the S6700 and provides methods to clear alarms.	Maintenance and Fault Management > Alarm Reference
Troubleshooting	Describes how to rectify common faults on the S6700 and provides typical troubleshooting cases.	Maintenance and Fault Management > Troubleshooting
Command Reference	Describes functions, syntax, parameters, usage guidelines, and outputs of commands on the S6700 and provides examples of using commands.	Reference > Command Reference
Log Reference	Describes the meaning, parameters, cause of each log on the S6700, and provides problem handling solutions.	Reference > Log Reference

Document	Description	Path on HedEx
Glossary	Lists the glossary, acronyms, and abbreviations used in the product documentation.	Glossary

1.4.2 Online Help

The online help is integrated in the Web Network Management System (Web system for short) and describes the Web system GUI and operation tasks. The online help is released with the product software.

The relationship between the online help and product documentation is as follows:

- The online help focuses on operation and maintenance tasks on the Web system GUI, and the product documentation focuses on the usage scenarios of product features.
- Both the online help and product documentation describe main device operation and maintenance tasks.

1.4.3 Release Documents

Release documents are released with the product software.

Table 1-5 Release documents

Document	Description
Release Notes	Describes the version mapping between software and hardware, version compatibility, feature updates, hardware updates, command line updates, alarm updates, MIB updates, solved issues, and known issues in the latest version.
Upgrade Guide	Describes version requirements, precautions, and scenarios for upgrade, procedures for upgrading the software version using the DC of the NMS and command lines, and procedures for rolling back the system to the source version.
Patch Notes	Describes the patches for each version, version mapping, and solved issues, procedures for installing patches using the DC of the NMS and command lines, and procedures for rolling back the patch to the previous version.

1.5 Documentation Conventions

This section describes the meanings of symbols used in the documentation.

Symbol Conventions

Symbol Description	Symbol Description
 DANGER	Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury. Indicates a hazard with a medium or low level of risk.
 WARNING	Indicates a hazard with a medium or low level of risk which, if not avoided, could result in minor or moderate injury.
 CAUTION	Indicates a hazard with a medium or low level of risk which, if not avoided, could result in minor or moderate injury.
 TIP	Indicates a tip that may help you solve a problem or save your time.
 NOTE	Provides additional information to emphasize or supplement important points of the main text.

Command Conventions

Convention	Description
Boldface	The keywords of a command line are in boldface.
<i>Italic</i>	Command arguments are in <i>italics</i> .
[]	Items (keywords or arguments) in brackets [] are optional.
{ x y ... }	Optional items are grouped in braces and separated by vertical bars. One item is selected.
[x y ...]	Optional items are grouped in brackets and separated by vertical bars. One item is selected or no item is selected.
{ x y ... } *	Optional items are grouped in braces and separated by vertical bars. A minimum of one item or a maximum of all items can be selected.
[x y ...] *	Optional items are grouped in brackets and separated by vertical bars. Several items or no item can be selected.
&<1-n>	The parameter before the & sign can be repeated 1 to n times.
#	A line starting with the # sign is a comment.

1.6 Documentation Development

The development of product documents is an engineering process by which the document deliverables are provided for users. The process involves several phases such as planning,

development, and commercialization. The product documents are developed along with the product software and hardware, which involves requirement analysis, design, development, and test.

Development Process

The product documents are developed by the information development department Huawei. The development of product documents includes the following phases:

1. Analyzing customer requirements
2. Mapping out the document development roadmap
3. Developing prototypes of document deliverables
4. Developing prototypes of document deliverables
5. Testing and verifying document deliverables
6. Releasing documents

Implement each development stage and conduct reviews at the end of each stage to ensure high quality documentation.

Standards Compliance

The documentation development process complies with the TL9000 standard of Quality Excellence for Suppliers of Telecommunications (QuEST) Forum.

1.7 Documentation Access and Feedback

This section provides ways to obtain the documentation and provide feedback.

1.7.1 Where to Obtain Documentation

You can obtain product documentation, online help, and release documents in various ways.

Product Documents

Table 1-6 shows how to obtain product documents.

Table 1-6 Obtaining product documents

Phase	How to Obtain Documentation	
	HedEx Library	Single Electronic Document
Installation	● From the electronic documentation delivered with the equipment ● From http://support.huawei.com ● From the local Huawei representative office	From http://support.huawei.com

Phase	How to Obtain Documentation	
	HedEx Library	Single Electronic Document
Version upgrade	- From http://support.huawei.com - From the local Huawei representative office	



NOTE

- Obtain the product documents from <http://support.huawei.com> by choosing **Documentation > Data Communication**
- It is recommended that you use your work email to register as an equipment customer for login to Huawei support website. For any help, contact Huawei technical support engineers.

Online Help

The online help is integrated and released with the product software. You can view the online help by:

- Selecting **Help** on the NMS interface
- Pressing **F1** on any interface of the NMS

Release Documents

Release documents are released with the software package. You can apply to Huawei technical support personnel for the documents.

1.7.2 Documentation Feedback

Contact the Huawei customer service center for any query regarding the usage of the documentation. You can contact us in the following ways:

- Sending an email to the customer service mailbox: press@huawei.com
- Sending your comments to Huawei's technical support website: <http://support.huawei.com>
- Contacting the local Huawei office

1.8 How to Obtain Technical Support

During the equipment operation and maintenance, if a fault occurs and is difficult to locate or rectify, or if you cannot rectify the fault by referring to the after-sales customer documentation, contact Huawei Customer Service Center to obtain technical support.

- Telephone: 0086-755-28560000, 4008302118
- Fax: 0086-755-28560111
- Email: support@huawei.com

2 Change History

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