



Huawei AR G3 Series Enterprise Routers
V200R002C01

Documentation Guide

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1 About This Document

Intended Audience

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

This document helps you correctly use the documentation of the AR routers 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.
 CAUTION	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.

Symbol	Description
 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

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

Changes in Issue 01 (2012-04-20)

Initial commercial release.

2 Where to Obtain Documentation

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

Product Documents

Table 2-1 shows how to obtain product documents.

Table 2-1 Obtaining product documents

Phase	How to Obtain Documentation	
	HedEx Library	Single Electronic Document
Installation	<ul style="list-style-type: none"> From http://support.huawei.com From the local Huawei representative office 	From http://support.huawei.com Obtain the product documents from http://support.huawei.com by choosing Documentation > Data Communication > Product > Router > Product Type > Product Manual
Version upgrade	<ul style="list-style-type: none"> From http://support.huawei.com From the local Huawei representative office 	

 **NOTE**

- You can select different values of *Product Type*. For example, to query the AR200 documentation, select **AR1200&2200&3200**.
- 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.

3 How to Use Documentation

About This Chapter

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

 **NOTE**

The interface types and numbers mentioned in all documents may vary according to the actual situation.

[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.

[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 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.

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 3-1 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.	<ul style="list-style-type: none"> ● Documentation Guide ● Product Description ● Feature Description ● Hardware Description 	-
Hardware installation engineer	<p>Is responsible for installing the hardware of the device according to the hardware planning and scheme of the project, including:</p> <ul style="list-style-type: none"> ● Checking the installation environment ● Preparing the installation environment ● Preparing power modules ● Preparing installation ● Laying out cables <p>The installation must meet the acceptance requirements.</p>	<p>Quick Installation Guide</p> <p>Quick Start Guide (Only for AR150 and AR200 series)</p>	<ul style="list-style-type: none"> ● Documentation Guide ● Product Description ● Hardware Description

Role of a User	Responsibility	Reference	
		Main Document	Reference Document
Commissioning engineer	Is responsible for powering 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 Quick Start Guide (Only for AR150 and AR200 series)	<ul style="list-style-type: none"> ● Documentation Guide ● Quick Installation Guide ● Product Description ● Hardware Description ● Feature Description ● Troubleshooting ● Command Reference ● Alarm Reference
Data configuration engineer	Is responsible for configuring data and deploying services on the device by using commands of the router or through the NMS.	Configuration Guide	<ul style="list-style-type: none"> ● 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: <ul style="list-style-type: none"> ● Monitoring the environment ● Cleaning and replacing air filters ● Replacing parts ● Upgrading software versions ● Cutting over circuits 	Quick Installation Guide	<ul style="list-style-type: none"> ● Documentation Guide ● Hardware Description ● Product Description

Role of a User	Responsibility	Reference	
		Main Document	Reference Document
Network monitoring engineer	Is responsible for monitoring the network 24 hours a day according to a provider's strategy, maintaining the network 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 router.	Alarm Reference	<ul style="list-style-type: none"> ● Documentation Guide ● Product Description ● Configuration Guide ● Troubleshooting ● Command Reference ● Alarm Reference
System maintenance engineer	Is responsible for maintaining the running devices, especially for troubleshooting of the system of the router and network management system, and be responsible for coordinating and supervising large-scale upgrading of the software version of the router, or reviewing the small-scale upgrading of the version of the software of the router.	Troubleshooting	<ul style="list-style-type: none"> ● Documentation Guide ● Quick Installation Guide ● Product Description ● Feature Description ● Hardware Description ● Configuration Guide ● Command Reference ● Alarm 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.

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 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 3-2 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	<ul style="list-style-type: none"> ● Documentation Guide ● Product Description ● Feature Description ● Hardware Description 	-
Network deployment	<ul style="list-style-type: none"> ● Surveying the project ● Preparing the environment ● Installing the device ● Commissioning the device 	<ul style="list-style-type: none"> ● Quick Installation Guide ● Quick Start Guide (Only for AR150 and AR200 series) ● Hardware Description 	-

Life Cycle Phase	Main Task	Reference	
		Main Document	Reference Document
Service deployment and commissioning	<ul style="list-style-type: none"> ● Setting up a network ● Deploying services ● Configuring data ● Managing and maintaining services 	<ul style="list-style-type: none"> ● Configuration Guide ● Command Reference ● Quick Start Guide (Only for AR150 and AR200 series) 	-
Network maintenance	<ul style="list-style-type: none"> ● Monitoring the network ● Performing routine maintenance and emergency maintenance ● Troubleshooting faults ● Replacing parts 	<ul style="list-style-type: none"> ● Alarm Reference ● Troubleshooting 	<ul style="list-style-type: none"> ● Configuration Guide ● Command Reference
Network upgrading	<ul style="list-style-type: none"> ● Upgrading the version ● Upgrading patches 	Release Notes	<ul style="list-style-type: none"> ● Configuration Guide ● Command Reference

4 Documentation Content

About This Chapter

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

[4.1 Product Documents](#)

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

[4.2 Online Help](#)

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

[4.3 Release Documents](#)

Release documents are released with the product software.

4.1 Product Documents

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

Table 4-1 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 AR.	Description > Product Description
Hardware Description	Describes the hardware configuration, boards, and cables of the AR.	Description > Hardware Description
Feature Description	Describes the definition, purpose, specifications, standards and protocols compliance, deployment scenarios, principles, and applications of each feature that the AR supports.	Description > Feature Description
Quick Installation Guide	Illustrates device installation procedures by using figures.	Installation
Configuration Guide	Describes configuration roadmaps, configuration procedures, and configuration examples.	CLI-based Configuration
Alarm Reference	Describes alarms that may generate on the AR and provides methods to clear alarms.	Maintenance and Fault Management > Alarm Reference
Troubleshooting	Describes how to rectify common faults on the AR and provides typical troubleshooting cases.	Maintenance and Fault Management > Troubleshooting
Command Reference	Describes functions, syntax, parameters, usage guidelines, and outputs of commands on the AR and provides examples of using commands.	Reference > Command Reference
Glossary	Lists the glossary, acronyms, and abbreviations used in the product documentation.	Glossary

Document	Description	Path on HedEx
Routine Maintenance	Describes the maintenance operations for the router.	Maintenance and Fault Management > Troubleshooting

4.2 Online Help

The online help is integrated in the Network Management System 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.

4.3 Release Documents

Release documents are released with the product software.

Table 4-2 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.

5 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 Huawei information development department. Development of product documents includes the following phases:

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

The documentation quality is ensured by implementing each development stage and conducting reviews at the end of each stage.

Standards Compliance

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

6 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

7 How to Obtain Technical Support

During equipment operation and maintenance, contact Huawei Customer Service Center (CSC) for help if you encounter any faults that are difficult to locate or rectify with the help of this document.

You can also contact the technical support personnel in Huawei's local representative office in one of the following ways:

To obtain the local office contact information, visit <http://support.huawei.com/support> and click Contact Us at the bottom.

Email: support@huawei.com