

# HUAWEI

## Quidway S5600 Series Ethernet Switches New Feature Manual

### **Release 0035**

# Quidway S5600 Series Ethernet Switches

## New Feature Manual

<b>Manual Version</b>	T2-08013H-20060105-C-1.00
<b>Product Version</b>	Release 0035
<b>BOM</b>	3101A03H

---

Huawei Technologies Co., Ltd. provides customers with comprehensive technical support and service. If you purchase the products from the sales agent of Huawei Technologies Co., Ltd., please contact our sales agent. If you purchase the products from Huawei Technologies Co., Ltd. directly, Please feel free to contact our local office, customer care center or company headquarters.

### **Huawei Technologies Co., Ltd.**

Address: Administration Building, Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, P. R. China

Postal Code: 518129




Website: <http://www.huawei.com>

**Copyright © 2006 Huawei Technologies Co., Ltd.**

## **All Rights Reserved**

No part of this manual may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

## **Trademarks**

 , HUAWEI, C&C08, EAST8000, HONET,  , ViewPoint, INtess, ETS, DMC, TELLIN, InfoLink, Netkey, Quidway, SYNLOCK, Radium,  M900/M1800, TELESIGHT, Quidview, Musa, Airbridge, Tellwin, Inmedia, VRP, DOPRA, iTELLIN, HUAWEI OptiX, C&C08iNET, NETENGINE, OptiX, iSite, U-SYS, iMUSE, OpenEye, Lansway, SmartAX, infoX, and TopEng are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this manual are the property of their respective holders.

## **Notice**

The information in this manual is subject to change without notice. Every effort has been made in the preparation of this manual to ensure accuracy of the contents, but all statements, information, and recommendations in this manual do not constitute the warranty of any kind, express or implied.

# About This Manual

## Release Notes

The product version that corresponds to the manual is S5600 Release 0035.

## Related Manuals

The following manuals provide more information about the Quidway S5600 Series Ethernet Switches.

Manual	Content
Quidway S5600 Series Ethernet Switches Installation Manual	It provides information for the system installation.
Quidway S5600 Series Ethernet Switches Operation Manual	It is used for assisting the users in data configurations and typical applications.
Quidway S5600 Series Ethernet Switches Command Manual	It is used for assisting the users in using various commands.

## Organization

*Quidway S5600 Series Ethernet Switches New Feature Manual* introduces newly added features of the S5600 series and consists of the following parts:

- **Overview of New Features**

Lists the newly added features and their descriptions, and includes the detailed introduction of logging onto a switch through web network management terminals, command history, and the broadcasting packet suppression function.

- **IRF**

Introduces IRF related configuration and commands.

- **Port**

Introduces port configuration.

- **DLDP**

Introduces DLDP related configuration.

- **VLAN**

Introduces VLAN and Voice VLAN related configuration.

- **GVRP**  
Introduces GVRP and the related configuration.
- **VLAN-VPN**  
Introduces VLAN-VPN and the related configuration.
- **DHCP**  
Introduces DHCP and the related configuration.
- **Gratuitous ARP**  
Introduces gratuitous ARP and the related configuration.
- **MSTP**  
Introduces MSTP and the related configuration.
- **802.1x**  
Introduces 802.1x and the related configuration.
- **AAA&Radius**  
Introduces AAA, RADIUS and their related configurations.
- **Centralized MAC Address Authentication**  
Introduces centralized MAC address authentication and the related configuration.
- **SSH 2.0**  
Introduces SSH2.0 and the related configuration.
- **Routing**  
Introduces new commands to display OSPF neighbor and RIP protocol interface, and related configuration.
- **Multicast Protocol**  
Introduces IGMP snooping, the related configuration, and the new commands.
- **Reliability**  
Introduces the implementation of VRRP ( Virtual Router Redundancy Protocol) and the configuration commands.
- **Auto Detect**  
Introduces auto detect function and the related configuration.
- **QoS**  
Introduces QoS and ACL, and the related configuration.
- **PoE Profile**  
Introduces the PoE Profile and the related configuration.
- **File System Management**  
Introduces basic configuration for file system management

- **Information Center**  
Introduces information center configuration.
- **System Maintenance and Debugging**  
Introduces daily maintenance and debugging to the system.
- **HWPing**  
Introduces HWPing and the related configuration.
- **EAD**  
Introduces EAD and the related configuration.
- **Network Management**  
Introduces how to record network administrator's operations to the device by using system log through SNMP.
- **Specified Source IP Address**  
Introduces how to change the source IP addresses of the sent packets through commands.
- **Loopback Detection**  
Introduces the configuration of loopback detection on Ethernet switch ports.

## Intended Audience

The manual is intended for the following readers:

- Network engineers
- Network administrators
- Customers who are familiar with network fundamentals

## Conventions

The manual uses the following conventions:

### I. General conventions

Convention	Description
Arial	Normal paragraphs are in Arial.
<b>Boldface</b>	Headings are in <b>Boldface</b> .
Courier New	Terminal Display is in Courier New.

## II. Command conventions

Convention	Description
<b>Boldface</b>	The keywords of a command line are in <b>Boldface</b> .
<i>italic</i>	Command arguments are in <i>italic</i> .
[ ]	Items (keywords or arguments) in square brackets [ ] are optional.
{ x   y   ... }	Alternative items are grouped in braces and separated by vertical bars. One is selected.
[ x   y   ... ]	Optional alternative items are grouped in square brackets and separated by vertical bars. One or none is selected.
{ x   y   ... } *	Alternative items are grouped in braces and separated by vertical bars. A minimum of one or a maximum of all can be selected.
[ x   y   ... ] *	Optional alternative items are grouped in square brackets and separated by vertical bars. Many or none can be selected.
#	A line starting with the # sign is comments.

## III. GUI conventions

Convention	Description
< >	Button names are inside angle brackets. For example, click the <OK> button.
[ ]	Window names, menu items, data table and field names are inside square brackets. For example, pop up the [New User] window.
/	Multi-level menus are separated by forward slashes. For example, [File/Create/Folder].

## IV. Keyboard operation

Format	Description
<Key>	Press the key with the key name inside angle brackets. For example, <Enter>, <Tab>, <Backspace>, or <A>.
<Key1+Key2>	Press the keys concurrently. For example, <Ctrl+Alt+A> means the three keys should be pressed concurrently.
<Key1, Key2>	Press the keys in turn. For example, <Alt, A> means the two keys should be pressed in turn.

## V. Mouse operation

Action	Description
Select	Press and hold the primary mouse button (left mouse button by default).
Click	Select and release the primary mouse button without moving the pointer.
Double-Click	Press the primary mouse button twice continuously and quickly without moving the pointer.
Drag	Press and hold the primary mouse button and move the pointer to a certain position.

## VI. Symbols

Eye-catching symbols are also used in the manual to highlight the points worthy of special attention during the operation. They are defined as follows:



**Caution, Warning, Danger:** Means reader be extremely careful during the operation.



**Note, Comment, Tip, Knowhow, Thought:** Means a complementary description.