



RC953-4FExE1T1 WEB Management User Manual

Legal Notices

Raisecom Technology Co., Ltd makes no warranty of any kind with regard to this manual, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. **Raisecom Technology Co., Ltd** shall not be held liable for errors contained herein or direct, indirect, special, incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Warranty.

A copy of the specific warranty terms applicable to your Raisecom product and replacement parts can be obtained from Service Office.

Restricted Rights Legend.

All rights are reserved. No part of this document may be photocopied, reproduced, or translated to another language without the prior written consent of **Raisecom Technology Co., Ltd.** The information contained in this document is subject to change without notice.

Copyright Notices.

Copyright ©2010 Raisecom. All rights reserved.

No part of this publication may be excerpted, reproduced, translated or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in Writing from **Raisecom Technology Co., Ltd.**

Trademark Notices

RAISECOM is the trademark of Raisecom Technology Co., Ltd.
Java[™] is a U.S. trademark of Sun Microsystems, Inc.
Microsoft® is a U.S. registered trademark of Microsoft Corporation.
Windows NT® is a U.S. registered trademark of Microsoft Corporation.
Windows® 2000 is a U.S. registered trademark of Microsoft Corporation.
Windows® XP is a U.S. registered trademark of Microsoft Corporation.
Windows® and MS Windows® are U.S. registered trademarks of Microsoft Corporation.

Contact Information

Technical Assistance Center

The Raisecom TAC is available to all customers who need technical assistance with a Raisecom product, technology, or, solution. You can communicate with us through the following methods:

Address: Building 2, No. 28 of the Shangdi 6th Street, Haidian District, Beijing 100085

Tel: +86-10-82883305

Fax: +86-10-82883056

World Wide Web

You can access the most current Raisecom product information on the World Wide Web at the following URL:

http://www.raisecom.com

Feedback

Comments and questions about how the RC953-4FExE1T1 system software works are welcomed. Please review the FAQ in the related manual, and if your question is not covered, send email by using the following web page:

http://www.raisecom.com/en/contact-us.html.

If you have comments on the RC953-4FExE1T1 specification, instead of the web page above, please send comments to:

export@raisecom.com

We hope to hear from you!

CONTENTS

1.1 System login 1 1.1.1 Conditions of requirements 1 1.1.2 Condiguration steps 1 1.2 Framework construction of Web interface 3 1.2.1 Compose of interface framework 3 1.2.2 Guiding system of interface 4 1.3 Password modification 6 1.4 Save configuration 7 Chapter 2 Management Module Configuration 7 Chapter 2 Management Module Configuration 8 2.1 Device Config 12 2.4 Port Statistics 12 2.5 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 14 2.6 Password 15 2.7 Radius Config 17 3.1 OAM Module Configuration 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 <t< th=""></t<>
1.1.1 Conditions of requirements 1 1.1.2 Configuration steps 1 1.2 Framework construction of Web interface 3 1.2.1 Compose of interface framework 3 1.2.2 Guiding system of interface 4 1.3 Password modification 6 1.4 Save configuration 7 Chapter 2 Management Module Configuration 7 Chapter 2 Management Module Configuration 8 2.1 Device Config 8 2.2 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event Log 24 4.1<
1.1.2 Configuration steps 3 1.2.1 Compose of interface framework 3 1.2.2 Guiding system of interface 4 1.3 Password modification 6 1.4 Save configuration 7 Chapter 2 Management Module Configuration 7 Chapter 2 Management Module Configuration 8 2.1 Device Config 8 2.2 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statusics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLAN Global Config 24 4.1 VLAN Global Config
1.2 Framework construction of web interface 3 1.2.1 Compose of interface framework 3 1.2.2 Guiding system of interface 4 1.3 Password modification 6 1.4 Save configuration 6 1.4 Save configuration 7 Chapter 2 Management Module Configuration 8 2.1 Device Config 8 2.2 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 20 3.5 OAM Event 20 3.5 OAM Event 21 3.6 OAM Event 22
1.2.1 Compose of interface manework 3 1.2.2 Guiding system of interface 4 1.3 Password modification 7 Chapter 2 Management Module Configuration 7 Chapter 2 Management Module Configuration 8 2.1 Device Config 8 2.2 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 25 4.3 Static VL
1.3.7 Password modification 6 1.4 Save configuration 7 Chapter 2 Management Module Configuration 7 Chapter 2 Management Module Configuration 8 2.1 Device Config 8 2.2 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event 22 Chapter 4 VLANs Groups Module Configuration 24 4.1 VLAN Scomes 24 4.3 Static VLANs 25 4.4 VLAN Scomes 25 <
1.3 Save configuration 7 Chapter 2 Management Module Configuration 7 Chapter 2 Management Module Configuration 8 2.1 Device Config 8 2.2 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 25 4.4 VLAN Ports 25 4.4 VLAN Ports 25 4.4 VLAN Ports 25 <
Chapter 2 Management Module Configuration 8 2.1 Device Config 8 2.2 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 2.6 OAM Event 21 2.7 Radius Config 22 Chapter 4 VLans Groups Module Configuration 22 Chapter 4 VLAns Global Config 24 4.1 VLANS 24 4.3 Static VLANS 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27
2.1 Device Config 8 2.2 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 22 Chapter 4 VLAN Global Config 24 4.1 VLAN Statis 24 4.2 Current VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 5 1 Static VLANs 25 Chapter 5 Diagnostic Module Configuration 27
2.2 System 10 2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.1 OAM Peer Info 18 3.3 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 25 4.4 VLAN Ports 25 4.4 VLAN Ports 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27
2.3 Port Statistics 12 2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 25 4.3 Static VLANs 25 4.4 VLAN Ports 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 5 1 5 10 4.5 VLAN Ports 25 5 10 27
2.4 Port Config 13 2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 25 4.3 Static VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 5.1 Fit loopBack Cfa 27
2.5 Port Fault 14 2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 25 4.3 Static VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 5.1 Event Log 25 Chapter 5 Diagnostic Module Configuration 27 5.1 Event Log 27 5.1 Fit LognBack Cfg 27
2.6 Password 15 2.7 Radius Config 16 Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 25 4.3 Static VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 5 1 Fit I conBack Cfa 27
2.7 Radius Config
Chapter 3 Dot3OAM Module Configuration 17 3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 25 4.3 Static VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 51 Evel conBack Cfra 27
3.1 OAM Status 17 3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 25 4.3 Static VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 51 Extl conPack Cfa 27
3.2 OAM Peer Info 18 3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 24 4.3 Static VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 51 Extl conBack Cfa 27
3.3 OAM Statistics 18 3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 24 4.3 Static VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 51 Extl conBack Cfa 27
3.4 Remote LoopBack 20 3.5 OAM Event 21 3.6 OAM Event Log 22 Chapter 4 VLans Groups Module Configuration 24 4.1 VLAN Global Config 24 4.2 Current VLANs 24 4.3 Static VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 51 Extl conBack Cfa 27
3.5 OAM Event 21 3.6 OAM Event Log
3.6 OAM Event Log22 Chapter 4 VLans Groups Module Configuration24 4.1 VLAN Global Config24 4.2 Current VLANs24 4.3 Static VLANs
Chapter 4 VLans Groups Module Configuration24 4.1 VLAN Global Config24 4.2 Current VLANs24 4.3 Static VLANs25 4.4 VLAN Ports25 Chapter 5 Diagnostic Module Configuration27 5.1 Extl conPack Cfa
4.1 VLAN Global Config24 4.2 Current VLANs24 4.3 Static VLANs25 4.4 VLAN Ports25 Chapter 5 Diagnostic Module Configuration
4.2 Current VLANs24 4.3 Static VLANs25 4.4 VLAN Ports25 Chapter 5 Diagnostic Module Configuration27 5.1 Extl conPack Cfa
4.3 Static VLANs 25 4.4 VLAN Ports 25 Chapter 5 Diagnostic Module Configuration 27 5.1 Extl. conBack Cfa 27
4.4 VLAN Ports25 Chapter 5 Diagnostic Module Configuration27 5.1 ExtloopBack Cfg
Chapter 5 Diagnostic Module Configuration27
51 ExtloopBack Cfg 27
J.I EXILOOPDACK CIG
5.2 LoopBack Configuration27
Chapter 6 IP/MAC Module Configuration29
6.1 IP Config29
6.2 MAC Config29
Chapter 7 EOPDH Module Configuration31
7.1 Configuration in GFP mode31
7.1.1 EUP Config
7.1.2 E1 Configuration in HDI C mode
7.2 Configuration in fibeo mode
7.2.2 E1 Config

Preface

About This Manual

This manual introduces primary functions of the configuration management software for RC series products.

RC953-4FExE1T1 series Interface Converter supports Web management function. This user manual gives introduction of telnet and maintenance for RC953-4FExE1T1 series devices via WEB management. Web management function permits user manage device at anywhere through network, the GUI configuration method is simple and easy using, very convenient to users. User only needs web browser of IE6.0, Netscape Navigator7.0 or newer version and in support of java, this WEB management function is available.

Who Should Read This Manual

This manual is a valuable reference for sales and marketing staff, after service staff and telecommunication network designers. For those who want to have an overview of the features, applications, structure and specifications of RC953-4FExE1T1 device, this is also a recommended document.

Organization

This manual is an introduction of the WEB management system. The manual is composed of the following chapters:

Chapter 1 Web Management System Introduction Chapter 2 Management Module Configuration Chapter 3 Dot3OAM Module Configuration Chapter 4 VLans Groups Module Configuration Chapter 5 Diagnostic Module Configuration Chapter 6 IP/MAC Module Configuration Chapter 7 EOPDH Module Configuration

Compliance

The RC series products developed by Raisecom are strictly complied with the following standards as well as ITU-T, IEEE, IETF and related standards from other international telecommunication standard organizations:

YD/T900-1997 SDH Equipment Technical Requirements - Clock

YD/T973-1998 SDH 155Mb/s and 622Mb/s Technical conditions of optical transmitter module and receiver module

YD/T1017-1999 Network node interface for the Synchronous Digital Hierarchy (SDH)

YD/T1022-1999 Requirement of synchronous digital hierarchy (SDH) equipment function

YD/T1078-2000 SDH Transmission Network Technique Requirements-Interworking of Network Protection Architectures

YD/T1111.1-2001 Technical Requirements of SDH Optical Transmitter/Optical Receiver Modules—2.488320 Gb/s Optical Receiver Modules

YD/T1111.2- 2001 Technical Requirements of SHD Optical Transmitter/Optical Receiver Modules—2.488320 Gb/s Optical Transmitter Modules

YD/T1179- 2002 Technical Specification of Ethernet over SDH

G.703 Physical/electrical characteristics of hierarchical digital interfaces

G.704 Synchronous frame structures used at 1544, 6312, 2048, 8448 and 44 736 kbit/s hierarchical levels

G.707 Network node interface for the synchronous digital hierarchy (SDH)

G.774 Synchronous digital hierarchy (SDH) - Management information model for the network element view

G.781 Synchronization layer functions

G.783 Characteristics of synchronous digital hierarchy (SDH) equipment functional blocks

G.784 Synchronous digital hierarchy (SDH) management

G.803 Architecture of transport networks based on the synchronous digital hierarchy (SDH)

G.813 Timing characteristics of SDH equipment slave clocks (SEC)

G.823 The control of jitter and wander within digital networks which are based on the 2048 kbit/s hierarchy

G.825 The control of jitter and wander within digital networks which are based on the synchronous digital hierarchy (SDH)

G.826 End-to-end error performance parameters and objectives for international, constant bit-rate digital paths and connections

G.828 Error performance parameters and objectives for international, constant bit-rate synchronous digital paths

G.829 Error performance events for SDH multiplex and regenerator sections

G.831 Management capabilities of transport networks based on the synchronous digital hierarchy (SDH)

G.841 Types and characteristics of SDH network protection architectures

G.842 Interworking of SDH network protection architectures

G.957 Optical interfaces for equipments and systems relating to the synchronous digital hierarchy

G.691 Optical interfaces for single channel STM-64 and other SDH systems with optical amplifiers

G.664 Optical safety procedures and requirements for optical transport systems

I.731 ATM Types and general characteristics of ATM equipment

I.732 ATM Functional characteristics of ATM equipment

IEEE 802.1Q Virtual Local Area Networks (LANs)

IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering

IEEE 802.3 CSMA/CD Access Method and Physical Layer Instruction

Chapter 1 Web Management System Introduction

1.1 System login

To ensure login device successfully via WEB, users are required to configure both the Interface Converter and client device when processing remote supervisory and maintenance via WEB.

1.1.1 Conditions of requirements

Object	Conditions						
	Turn on the Interface Converter, which supports WEB function.						
Interface Converter	Configure IP address for Interface Converter, by a router, the Interface Converter can connect to user.						
	Set user name and password.						
	IE6.0, Netscape Navigator7.0 or newer version.						
Client	Get IP address of the Interface Converter						
	Get the user name and password.						

NOTE: The system is in support of 5 links at most.

1.1.2 Configuration steps

Step 1: Login the Interface Converter via Console port and configure device VLAN 1 IP address correctly (VLAN 1 is the default VLAN of switch).

Example:

Raisecom#config

Raisecom(config)#ip address 10.1.2.3 255.255.255.0 1

10.1.2.3 is IP address, 255.255.255.0 is subnet mask, 1 is vlan 1.

Step 2: Building configuration environment. Just connect Ethernet interface of PC with the Ethernet interface under VLAN 1 of Interface Converter via network. If the PC and Ethernet switch are not in one LAN, a router is required for connecting the PC and Ethernet switch VLAN 1 interface.

Example:



Figure 1-1 Configure Static Routing

As figure 1-1 shows, RC953-4FExE1T1 is in subnet 10.1.2.0/24, and PC is in subnet 10.1.1.0/24. Steps for configuring static routing:

! Enable ip route on RC953-4FExE1T1 and configure static routing:

Raisecom(config)# ip route 10.1.1.0 255.255.255.0 10.1.2.4

Raisecom(config)# ip route 10.1.4.0 255.255.255.0 10.1.3.4

! Enable ip routing on Switch and configure default gateway:

Raisecom(config)# ip routing

Raisecom(config)# ip default-gateway 10.1.2.3 255.255.255.0

! Configure default gateway as 10.1.1.3 on host A.

Step 3: Open web browser on PC, and input <u>http://10.1.2.3/</u> in the address bar. 10.1.2.3 is IP address of Interface Converter. Input user name and password in the open window and then click $\langle OK \rangle$ to enter WEB management interface of RC953-4FExE1T1.

1.2 Framework construction of Web interface

1.2.1 Compose of interface framework

RAÍSECO	М		2				RC951E-4FEE1
Dot3OAM Configuration	Manage Configu	ement C Iration Co	Dot3OAM nfiguration	VLans Groups	Diagnost	ic IP/MAC	EOPDH
	OAM St	atus OAM Pee	er Info OAM St	atistics Re	mote LoopBa	ICK OAM Event OA	M Event Log
OAM Status	Port	V					
	Oam Ad	min State				¥	
Save Changes	Cannwe	Jue	_	Refresh		Apply	
			_			, the A	
	Port	Oam Admin State	Oarn Oper Status	Oam Mode	Oam Max PduSize	Oam Config Revision	Oam Function Supported
	line1	disable	disabled	passive	1518	0	Loopback, Event, Vari able
	client1	disable	disabled	passive	1518	0	Loopback, Event, Vari able
	client2	disable	disabled	passive	1518	0	Loopback, Event, Vari able
	client3	disable	disabled	passive	1518	0	Loopback, Event, Vari able
	client4	disable	disabled	passive	1518	0	Loopback, Event, Vari able

Figure 1-2 Framework Construction of Web Interface

- 1. Display titles of configuration management modules being selected at present. The different color in part 2 is the selected module.
- 2. Guiding area of the interface, containing a 2-layer guiding tree.
 - The upper part is area of all configuration management modules. The color changes once user move the cursor to the module area and showing the configuration page TABs under this module.

The lower part is all configuration page TABs under current selected module. Click each TAB and the displaying area shows relevant configuration management information of the page.

- 3. The current selected configuration TAB title corresponding to a selected guiding node page at the bottom of part 2.
- 4. Save current configuration information and the configuration keeps effective even reboot system.

The white area at right-bottom is displaying area of page. Click each guiding node and its related web page will display in this area.

1.2.2 Guiding system of interface

1.2.2.1 Management Configuration

Management Configuration	Dot3OAM Configuration	VLans Groups	Diagnostic	IP/MAC	EOPDH
Device Config	System Port Statist	tics Port Con	fig Port Fault Pa	ssword Radius (Config

Figure 1-3 Page Guiding Structure of Management Module

Guiding node Description						
Management Configuration						
Device Config	This page display the running configuration and information loaded by automation when system starting up. It can also update the automatically loading configuration information when system starting up.					
System	This page displays device name, ROS version, Bootstrap version, hardware version, system MAC, device starting time, etc. information.					
Port Config	This is status and basic configuration page of port.					
Port Statistics	Display statistics information of ports					
Port Fault	This page contains two size-fixed tables, which are used to configure port fault management.					
Password	Modify Web administrator password					
Radius Config	related configuration of Radius Server, assigning server IP, server port and key.					

1.2.2.2 Dot30AM Configuration

Management Configuration	Dot3OAM Configuration	VLans Groups	Diagnostic	IP/MAC	EOPDH
OAM Status O/	AM Peer Info OAM S	Statistics Ren	note LoopBack 🛛 O/	AM Event OAM Eve	ent Log 丨

Figure 1-4 Page Guiding Structure of Dot3OAM Module

Guiding node Description					
Dot3OAM Configuration					
OAM Status	Change and display port OAM status				
OAM Peer Info	Display status of OAM peer information				
OAM Statistics	Display port OAM statistics information				
Remote LoopBack	Change and display port OAM LoopBack status				
OAM Event	Change and display port OAM event				
OAM Event Log	Display OAM event log				

1.2.2.3 VLans Groups

Management Configuration	Dot3OAM Configuration	VLans Groups	Diagnostic	IP/MAC	EOPDH	
VLAN Global Conf	id Current VLANs	Static VLA	Ns IVLAN Ports I			

Figure 1-5 Page Guiding Structure of VLans Groups Module

Guiding node	Description				
VLans / Multicast Groups					
VLAN Global Config	This is the global configuration interface of VLAN				
Current VLANs	Display port configuration status of VLAN				
Static VLANs	This page is for creating, deleting, modifying and vlan port attribution setting of VLAN table.				
VLAN Ports	Function of this page is to change and display port VLAN configuration attribution.				

1.2.2.4 Diagnostic

Management Configuration	Dot3OAM Configuration	VLans Groups	Diagnostic	IP/MAC	EOPDH	
ExtLoopBack Cfg LoopBack Configuration						

Figure 1-6 Page Guiding Structure of Diagnostic Module

Guiding node	Description
Diagnostic	
ExtLoopBackCfg	This page is to configure parameters for port loopback
LoopBack Configuration	This is the page for setting port loopback status and loop holding time

1.2.2.5 IP/MAC module

Management Configuration	Dot3OAM Configuration	VLans Groups	Diagnostic	IP/MAC	EOPDH
lp Config Mac	Config 丨				

Figure 1-7 Page Guiding Structure of IP/MAC Module

Guiding node	Description
--------------	-------------

IP/MAC		
IP Config	IP interface and IP address setting and displaying	
Mac ACL Config	Set static mac address and display all mac addresses inside the device	

1.2.2.6 EoPDH

Management Configuration	Dot3OAM Configuration	VLans Groups	Diagnostic	IP/MAC	EOPDH	
EOP Config E1	Config 丨					

Figure 1-8 Page Guiding Structure of EOPDH Module

Guiding node	Description	
EOPDH		
EOP Config	EOPDH related configuration and status	
E1 Config	Setting and displaying E1 interface	

1.3 Password modification

Users had better modify password after login system for the first time. Move the cursor to Management Configuration area and click the Password guiding node at the lower part. Then input old password and new password at the displaying area (as Figure shows below). Click **<Apply>** at last. The passwords cannot exceed 16 characters in length and old password need to pass verification. Once the old password failed to pass verification, a caution box will appear and so does inputting inconsistent new passwords.

As above paragraph says click **<Apply>** to modify password, but the new password will be ineffective after device power off and reboot. To save the new password in flash and have the new password effective after system rebooting, users must click **<Save Changes>** on the left after clicking **<Apply>**.

Password Modification	
Old Password	
New Password	
Re-Type Password	
Ар	ply

Figure 1-9	Password	Modification
------------	----------	--------------

Guiding node	Description
Old Password	Input old password and check correctness of it.

New Password	Input new password	
Re-Type Password	Input new password again	
Apply	 Apply password modification information: 1: Apply successfully: refresh the interface 2: Apply failure: appear caution box of failing to set the node; prompt incorrect older password if the input one is incorrect. 3: Apply failure: appear caution box of failing to set the node; prompt input new password again if the input ones are inconsistent or illegal. 	

1.4 Save configuration

There are to methods for saving configuration:

- 1. Click **<Apply>** to save configuration, and the configuration contents will loss after device power off and reboot.
- 2. Click the button **<Save Changes>** on the left can save the configuration and keep configuration effective even device power off and reboot.



2.1 Device Config

This page display the running configuration and information loaded by automation when system starting up. It can also update the automatically loading configuration information when system starting up. Click button <**Apply**> to complete configuration of configuring contents in configuration table as automatically loading information when startup. After <**Apply**>, the Current Start Up Configuration contents become the set contents if user input correct contents.

Config Device	e S	ave	Reboot	1
			Kebbot	
Current Start Up Configuration IROS Version ROS_4.11.1209.RO Icommand in view_mode	0951E-4FEE1.1.2010	10322		
! !command in config_mode first-s	tep			
! !command in enable_mode				
! !command in service_mode				
! !command in port_mode				
! !command in vlan configuration n	node			
: !command in config_mode ip address 192.168.4.28 255.255	.255.0 1 line 1 client	1-4		
: !command in e1 port mode				
: !command in eop port mode				
INEVER change the NOTATION				
System Current Configuration				
IROS Version ROS_4.11.1252.RC	951E-4FEE1.3.2010	0409		
! !command in config mode first-si	tep			
! !command in enable_mode				
! !command in service_mode				
! !command in port_mode				
! !command in vlan configuration m	iode			
! !command in config_mode ip address 192,168,4,28,255,255	.255.0 1 line 1 client 1	-4		
! !command in e1 port mode	.200.0 1 1110 1 01011			
!				
Undate Start Un Configuration				
opuate start op connguration				<u>^</u>
	Apply	Refr <u>esh</u>		

Figure 2-1 Device Config page

ТАВ	Description
Config Device	Configure device table title, including three buttons

Erase	Erase configuration, erase the contents of Current Start Up Configuration in FLASH; this operation equals to the command erase in commands line.
Save	Save configuration, save System Current Configuration into Start Up Config file; this operation equals to the command write in commands line.
Reboot	Reboot Ethernet switch and device, equals to command reboot in commands line. System will prompt confirm information for reboot.
Current Start Up Configuration	The table Current Start Up Configuration is used to display Current Start Up Configuration contents in FLASH.
System Current Configuration	The table System Current Configuration is used to display the running configuration of current system.
Update Start Up Configuration	Configuration contents inputting table
Apply	Set contents in configuration table
Refresh	Refresh the page, and get current system information.

2.2 System

This page display device name, ROS version, Bootstrap version, hardware version, system MAC, device starting time, etc. information.

Product Name:	RC951E-4FEE1	
Ros Version:	ROS_4.11.1252.RC951E-4FEE1.3.20100409	
Bootstrap Version:	Bootstrap_3.1.2.RC953.0.20091013	
Hardware Version:	Rev.A.1	
System Up Time:	0-Days 0-Hours 29-Minutes 49-Seconds	
System MacAddress:	000e.5ee7.889a	
Temperature(Celsiur scale):	30	
3300mv(mv):	3300	
1200mv(mv):	1238	
CPU utilization in 1 second(%):	0%	
CPU utilization in 1 minute(%):	0%	
Refresh		

Figure 2-2 System page

ТАВ	Description
Product Name	Display device name
Ros Version	Display ROS version
Bootstrap Version	Display Bootstrap version
Hardware Version	Display Hardware version
System Up Time	Display system start up time

System MacAddress	Display system MAC address
Temperature (Celsius scale)	Display system temperature
3300mv (mv)	Display current value of 3.3V voltage
1200mv (mv)	Display current value of 1.2V voltage
CPU utilization in 1 second (%)	Display CPU utilization per second
CPU utilization in 1 minute (%)	Display CPU utilization per minute

2.3 Port Statistics

Port:line1			
In All Bits	0	Out All Bits	768
CRC Align Errors	0	Drop Events	0
Undersize Pkts	0	Oversize Pkts	0
Fragments	0	Jabbers	0
Collisions	0	In Octets	0
Out Octets	96	In UcastPkts	0
Out UcastPkts	0	In MulticastPkts	0
Out MulticastPkts	0	In BroadcastPkts	0
Out BroadcastPkts	1		
Port:client1			
In All Bits	0	Out All Bits	0
CRC Align Errors	0	Drop Events	0
Undersize Pkts	0	Oversize Pkts	0
Fragments	0	Jabbers	0
Collisions	0	In Octets	0
Out Octets	0	In UcastPkts	0
Out UcastPkts	0	In MulticastPkts	0
Out MulticastPkts	0	In BroadcastPkts	0
Out BroadcastPkts	0		
Port:client2			
In All Bits	0	Out All Bits	0
CRC Align Errors	0	Drop Events	0
Undersize Pkts	0	Oversize Pkts	0
Fragments	0	Jabbers	0
Collisions	0	In Octets	0
Out Octets	0	In UcastPkts	0
Out UcastPkts	0	In MulticastPkts	0
Out MulticastPkts	0	In BroadcastPkts	0
Out BroadcastPkts	0		
Port:client3	0	Out All Dite	0
IN All Bits	0	Out All Bits	0
CRC Align Errors	U	Drop Events	
Undersize Pkts	U	Uversize Pkts	0
Fragments	U	Jabbers	
Collisions	0	In Octets	
Out Octets	0	In UcastPkts	0
Out UcastPkts	0	In MulticastPkts	0
Out MulticastPkts	0	In BroadcastPkts	0
Out BroadcastPkts	0		
Port-client/			
In All Bits	0	Out All Bits	652,712
CRC Align Errors	0	Dron Events	0
Undersize Pkts	0	Oversize Pkts	0
Fragments	0	Jahhers	0
Collisione	0		18.081
Out Octote	01 600		110
Out Use of Diffe	01,069		0
Out OcastPKts	122		0
Out MulticastPkts	125	in BroadcastPkts	31
Out BroadcastPkts	3		
		Refresh	

Figure 2-3 Port Statistics page

ТАВ	Description		
Port	Port name, one table for each port		
In All Bits	Display port received bits		
CRC Align Errors	Display port received CRC Align error packets		
Undersize Pkts	Display packets with size under 64 bytes received by port		
Fragments	Display packets with size under 64 bytes received by port and the packets have FCS or Alignment errors		
Collisions	Display collision times		
In Octets	Display port received bytes		
In UcastPkts	Display port received unicast packets		
In MulticastPkts	Display port received multicast packets		
In BroadcastPkts	Display port received broadcast packets		
Out All Bits	Display port send bits		
Drop Events	Display packets dropping events		
Oversize Pkts	Display packets with size over 1518 bytes received by port		
Jabbers	Display packets with size over 1518 bytes received by port, and the packets have FCS or Alignment errors.		
Out Octets	Display port send bytes		
Out UcastPkts	Display port send unicast packets		
Out MulticastPkts	Display port send multicast packets		
Out BroadcastPkts	Display port send broadcast packets		

2.4 Port Config

This is status and basic configuration page of port, including Operate State, Link State, factual Speed-Duplex, speed-duplex setting, flow-control setting, flow-control state, MAC learning enable, port type, port description, port ingress rate limit setting and display, port egress rate limit setting and display.

Port: c	lient2 🔽						
Admin 9	State:	enable 💌		Set Spe	eed-Duplex:	autoneg	otiate 💌
Flow Co	ontrol:	disable 💌		MAC-learning:		enable	•
Descrip	tion:	port client2					
Limit Po Rate:	ort Ingress	0		Limit Port Egress		0	
		Re	fresh		Apply		
Port	Operate Stat	e Speed-Duplex	Send FlowC	ontrol	Receive Flow	Control	Port Type
line1	down	unknown	disable		disable		fx_DulMode_100M
client1	down	unknown	disable		disable		tx_100M
client2	up	full-100	disable		disable		tx_100M
client3	down	unknown	disable		disable		tx_100M
client4	down	unknown	disable		disable		tx_100M

Figure 2-4 Port Configure page

ТАВ	Description
Port (Configuration table)	Choose a port to configure, refresh the page if selected port changes.
Admin State	Choose management state of configured device port.
Flow Control	Set port flow control state
Description	Port description information
Limit Port Ingress Rate	Port ingress speed rate limit
Set Speed-Duplex	Set port speed and duplex
MAC-learning	Set port MAC learning state
Limit Port Egress Rate	Port egress rate limit
Refresh	Refresh page, get current system information value.
Apply	Set contents in configuration table
Port (Display table)	Display port ID
Operate State	Display port actual working state
Speed-Duplex	Display port speed and duplex state
Send FlowControl	Display port send flow control state
Receive FlowControl	Display port receive flow control state
Port Type	Display port type

2.5 Port Fault

This page contains two size-fixed tables, which are used to configure port fault management.

Upper table: configure fault-pass through setting and state of Line1, Line1 port fault return setting, Line1 port SD, FEFI state.

Lower table: display electrical port fault pass-through state.

Port: line1 💌					
FR T- R- (-(0)(1 - 0)	5 IK D.			00 - 1 - 1	
FP To Ports(Client List)	Faurt Re	eturn Enable	Fault Return Status	SD status	FEFI status
C1:=C2:=C3:=C4:=	disabl	e 🔽	normal	normal	fefi
		Refresh	Apply		
	_			_	
	Port	Fault Pass S	tatus		
	client1	Normal			
	client2	Normal			
	client3	Normal			
	client4	Normal			

Figure 2-5 Port Fault page

ТАВ	Description
	Set object port of optical port fault pass-through through dynamic icon. Configure and display node state of specified index, the <apply></apply> button can set current selected value.
	Two kinds of icon, click once and the Icon changes to the next icon. Thereinto,
FP To Ports (Client	D : set the port as object port of optical fault pass-through, corresponding object port fault pass-through state is down.
List)	—: the port is not object port of optical port fault pass-through, corresponding object port fault pass-through state is normal.
	For example, set corresponding icon as D for object port client2of optical fault pass-through, refresh page after successfully <apply></apply> , icon setting successfully and display object port of fault pass-through; meanwhile, the fault pass-through state of object port is: client2 fault pass-through down, other ports are normal.
Fault Return Enable	Fault Return enable state setting
Fault Return Status	Display Fault Return enable state
SD status	Display SD state
FEFI status	Display FEFI state
Fault Pass Status	Display Fault Pass state, see "FP To Ports(ClientList)" description
Refresh	Refresh page, get current system information value.
Apply	Set contents in configuration table

2.6 Password

Refer to section 1.3.

2.7 Radius Config

Radius Server Addre	ss	123.1.1.1				
Radius Server Port		1812				
	Refre	esh	Apply	D)elete	
Radius Auth Key		XXXXXX				
	Refre	esh	Apply	D	elete	
Radius Server Address			Radius Server Po	rt	Radius	Auth Key
123 1 1 1			1812		XXXXXX	

This is a page of fixed size and is used to configure and display radius.

Figure 2-6 Radius Config page

TAB Description	
Radius Server Address	Configure IP address for Radius Server
Radius Server Port	Configure Radius Server port, if doesn't assign, it is 1812 by default
Radius Auth Key	Configure the key for Radius Server exchange



3.1 OAM Status

This page is a size-fixed table for changing and displaying port OAM status.

Port cli	ient3 💌						
Oam Ad	Oam Admin State enable 😪						
Oam Mo	de			passive 💌	passive 💙		
		R	efresh	Арр	bly		
Port	Oam Admin State	Oam Oper Status	Oam Mode	Oam Max PduSize	Oam Config Revision	Oam Function Supported	
line1	enable	disabled	passive	1518	0	Loopback, Event, Vari able	
client1	enable	disabled	passive	1518	0	Loopback, Event, Vari able	
client2	enable	disabled	passive	1518	0	Loopback, Event, Vari able	
client3	enable	passiveWait	passive	1518	0	Loopback, Event, Vari able	
client4	enable	disabled	passive	1518	0	Loopback, Event, Vari able	

Figure 3-1 OAM Status page

ТАВ	Description
Port (Configuration table)	Choose a port to configure, refresh the page if selected port changes.
Oam Admin State	Choose OAM administrate state for configured device port.
Oam Mode	Configure port OAM mode
Refresh	Refresh page, get current system information value.
Apply	Set contents in configuration table
Port (Display table)	Display port ID
Oam Admin State	Display port OAM administrate status

Oam Oper Status	Display port OAM Oper state
Oam Mode	Display port OAM mode
Oam Max PduSize	Display port OAM maximal PDU size
Oam Config Revision	Display port OAM configuration version
Oam Function Supported	Display port OAM supported state

3.2 OAM Peer Info

This page is a size-fixed table for displaying status of OAM peer information.

Port:client1	
Oam Peer MAC	00:0E:5E:02:CB:C6
Oam Vendor OUI	0x00:0e:5e
Oam Vendor Info	1
Oam Peer Mode	active
Oam Peer Max OamPdu Size	1518
Oam Peer Config Revision	0
Oam Peer Functions Supported	Loopback, Event

Refresh

ТАВ	Description
Port	The port ID that is connected with peer device
Oam Peer MAC	Peer MAC address
Oam Vendor OUI	Peer vendor OUI
Oam Vendor Info	Peer vendor information
Oam Peer Mode	Peer OAM working mode
Oam Peer Max OamPdu Size	Peer maximal OAM PDU frame size
Oam Peer Config Revision	Peer OAM configuration version
Oam Peer Functions Supported	Peer OAM supported functions
Refresh	Refresh page, get current system information value.

Figure 3-2 OAM Peer Info page

3.3 OAM Statistics

This page is a size-fixed table for displaying port OAM statistics information. One table for each port, as figure 3-3 shows. Tables of client1-client3 are omitted in the figure.

Port:line1	
Oam Information Tx	0
Oam Information Rx	0
Oam Unique Event Notification Tx	0
Oam Unique Event Notification Rx	0
Oam Duplicate Event NotificationTx	0
Oam Duplicate Event NotificationRx	0
Oam Loopback Control Tx	0
Oam Loopback Control Rx	0
Oam Variable Request Tx	0
Oam Variable Request Rx	0
Oam Variable Response Tx	0
Oam Variable Response Rx	0
Oam OrgSpecific Tx	0
Oam OrgSpecific Rx	0
Oam Unsupported Codes Tx	0
Oam Unsupported Codes Rx	0
Oam Frames Lost Due To Oam	0

^^^^

Port:client4	
Oam Information Tx	0
Oam Information Rx	0
Oam Unique Event Notification Tx	0
Oam Unique Event Notification Rx	0
Oam Duplicate Event NotificationTx	0
Oam Duplicate Event NotificationRx	0
Oam Loopback Control Tx	0
Oam Loopback Control Rx	0
Oam Variable Request Tx	0
Oam Variable Request Rx	0
Oam Variable Response Tx	0
Oam Variable Response Rx	0
Oam OrgSpecific Tx	0
Oam OrgSpecific Rx	0
Oam Unsupported Codes Tx	0
Oam Unsupported Codes Rx	0
Oam Frames Lost Due To Oam	0

Refresh

Figure 3-3 OAM Statistics page

ТАВ	Description
Port	Corresponding port id of table
Oam Information Tx	Sending OAM information frames
Oam Information Rx	Receiving OAM information frames
Oam Unique Event Notification Tx	Sending Unique event notification frames

Oam Unique Event Notification Rx	Receiving Unique event notification frames
Oam Duplicate Event NotificationTx	Sending repeated event notification frames
Oam Duplicate Event NotificationRx	Receiving repeated event notification frames
Oam Loopback Control Tx	Sending OAM loopback control frames
Loopback Control Rx	Receiving OAM loopback control frames
Variable Request Tx	Sending OAM variable request frames
Variable Request Rx	Receiving OAM variable request frames
Variable Response Tx	Sending OAM variable response frames
Variable Response Rx	Receiving OAM variable response frames
OrgSpecific Tx	Sending OAM organization specific frames
OrgSpecific Rx	Receiving OAM organization specific frames
Unsupported Codes Tx	Sending CODE type unsupported OAM frames
Oam Unsupported Codes Rx	Receiving CODE type unsupported OAM frames
Oam Frames Lost Due To Oam	Frames discarded by OAM multiplexer
Refresh	Refresh page, get current system information value.

3.4 Remote LoopBack

This page can change and display port OAM LoopBack status.

Port line1	~			
Oam Loopbac	k Status		noLoopback	*
Oam Loopbac	k React		process	*
		Refresh	Apply	
L				
Port	Oam Loopback Sta	atus	Oam Loop	back React
Port line1	Oam Loopback Sta noLoopback	atus	Oam Loop process	back React
Port line1 client1	Oam Loopback Sta noLoopback noLoopback	atus	Oam Loop process process	back React
Port line1 client1 client2	Oam Loopback Sta noLoopback noLoopback noLoopback	atus	Oam Loop process process process	back React
Port line1 client1 client2 client3	Oam Loopback Sta noLoopback noLoopback noLoopback noLoopback	atus	Oam Loop process process process process	back React

Figure 3-4 Remote LoopBack page

ТАВ	Description
Port (Configuration table)	Choose a port to configure, refresh the page if selected port changes.

Oam Loopback Status	Configure OAM loopback state
Oam Loopback React	Configure port OAM loopback response mode, ignore or deal with received OAM loopback command.
Refresh	Refresh page, get current system information value.
Apply	Set contents in configuration table
Port (Display table)	Display port ID
Oam Loopback Status	Display port OAM loopback state
Oam Loopback React	Display port OAM loopback response mode

3.5 OAM Event

Change and display port OAM event.

Port line1 💌	
Oam Err Frame Period Window (Unit: 0.1s)	10
Oam Err Frame Period Threshold	1
Oam Err Frame Period EvNotif Enable	True 🔽
Oam Err Frame Window (Unit: 0.1s)	10
Oam Err Frame Threshold	1
Oam Err Frame EvNotif Enable	True 🔽
Oam Err Frame Secs Summary Window (Unit: 0.1s)	600
Oam Err Frame Secs Summary Threshold	1
Oam Err Frame Secs EvNotif Enable	True 🔽
Oam Dying Gasp Enable	True 🔽
Oam Critical EventEnable	True 🔽
Refresh	Apply

Figure 3-5 OAM Event configuration page

Port:line1	
Oam Err Frame Period Window (Unit: 0.1s)	10
Oam Err Frame Period Threshold	1
Oam Err Frame Period EvNotif Enable	True
Oam Err Frame Window (Unit: 0.1s)	10
Oam Err Frame Threshold	1
Oam Err Frame EvNotif Enable	True
Oam Err Frame Secs Summary Window (Unit: 0.1s)	600
Oam Err Frame Secs Summary Threshold	1
Oam Err Frame Secs EvNotif Enable	True
Oam Dying Gasp Enable	True
Oam Critical EventEnable	True

ТАВ	Description
Port (Configuration table)	Choose a port to configure, refresh the page if selected port changes.
Oam Err Frame Period Window	Configure port OAM error frame period window, input range: 1-600, unit: 0.1s
Oam Err Frame Period Threshold	Configure port OAM error frame period threshold, input range: 0-65535
Oam Err Frame Period EvNotif Enable	Configure port OAM error frame period notification enable
Oam Err Frame Window	Configure port OAM error frame period window, input range: 10-600, unit: 0.1s
Oam Err Frame Threshold	Configure port OAM error frame threshold, input range: 0-65535
Oam Err Frame EvNotif Enable	Configure port OAM error frame notification enable
Oam Err Frame Secs Summary Window	Configure port OAM error frame second window, input range: 100-9000, unit: 0.1s
Oam Err Frame Secs Summary Threshold	Configure port OAM error frame second threshold, input range: 0-65535
Oam Err Frame Secs EvNotif Enable	Configure port OAM error frame second notification enable
Oam Dying Gasp Enable	Configure port OAM Dying Gasp enable
Oam Critical EventEnable	Configure port OAM Critical Event enable
Refresh	Refresh page, get current system information value.
Apply	Set contents in configuration table
Port (Display table)	Entry meaning of displaying table for different ports please refer to description in configuration table. Figure 3-6 just shows table of port line1, other ports are omitted.

3.6 OAM Event Log

This page displays port OAM events log information.

This page gives different entries according to different conditions, the table size is changeable. For the entries of Oam Event Log Window, Oam Event Log Threshold, Oam Event Log Value, the following lines display only when values of node Oam Event Log Type are erroredSymbolEvent, erroredFramePeriodEvent, erroredFrameEvent, erroredFrameSecondsEvent.

Oam Event Log Index	13
Oam Event Log Timestamp	0-Days 0-Hours 1-Minutes 58-Seconds
Oam Event Log Oui	0x01:80:c2
Oam Event Log Type	linkFault
Oam Event Log Location	local
Oam Event Log Event Total	1

Refresh

Figure 3-7 OAM Event Log display page

ТАВ	Description
Oam Event Log Timestamp	Display port OAM event timestamp
Oam Event Log Oui	Display port OAM event OUI
Oam Event Log Type	Display port OAM event type
Oam Event Log Location	Display port OAM event location
Oam Event Log Window	Display port OAM event window
Oam Event Log Threshold	Display port OAM event threshold
Oam Event Log Value	Display port OAM event errors
Oam Event Running Total	Display port OAM event error statistic
Oam Event Log Event Total	Display port OAM event statistic
Refresh	Refresh page, get current system information value.



4.1 VLAN Global Config



Figure 4-1 VLAN Global Config page

ТАВ	Description
VLAN Double Tagging TPID	Display core tag TPID of current VLAN
	Display range: identical to display of command line; hexadecimal integer.
	Input range: hexadecimal integer 0000~FFFF
Refresh	Refresh page, get current system information value.
Apply	Set contents in configuration table

4.2 Current VLANs

Display port configuration status of VLAN.

				(-=None, M=M	ember, U=Untagged)
VID	line1	client1	client2	client3	client4
1	U	U	U	U	U
3	-	М	U	-	-
4	-	М	U	-	-
5	-	М	U	-	-
6	U	М	М	-	М
		_			
			Refresh		

Figure 4-2 Current VLANs page

ТАВ	Description
-----	-------------

VID	Vlan ID
Line1	Vlan member state of port line1
	Like Figure 4-2 shows:
	-: the port is not in VLAN
	M: the port is member of VLAN
	U: the port is VLAN member port and untagged
client1-client4	Vlan member state of port client1-client4
Refresh	Refresh page, get current system information value.

4.3 Static VLANs

This page is for creating, deleting, modifying and displaying VLAN table.

VID			
4			
0001 Default	Refresh	Apply	Delete
0003 VLAN0003			
0004 VLAN0004			
0005 VLAN0005			

Figure	4-3	Static	VLANs	page
--------	-----	--------	--------------	------

ТАВ	Description
VID	Create new VLAN, input VLANID according to command line mode, for example: 3, 5, 6-10 and single VLANID.
	Input requirement: the input characters must be single number, or complying with format like this: 3, 5, 6-10.
	Rules: only number, English comma, English hyphen, range of each number is 1-4094, there must be number before and after a symbol. System will prompt information if input illegal condition.
Refresh	Refresh page, get current system information value.
Apply	Set contents in configuration table.
Delete	Delete vlan table entry.

The box at left-bottom indicates display current existing VLAN list, choose a VLAN ID in the box and the configuration table will display the VLAN ID of it.

4.4 VLAN Ports

Function of this page is change and display port VLAN configuration attribution.

Port 🔽	
Switch Port Mode	▼
Access Pvid Override	•
Access Mode VLAN	0
Administrative Access Egress VLANs	
Operational Access Egress VLANs	
Trunk Native Mode VLAN	0
Administrative Trunk Allowed VLANs	
Operational Trunk Allowed VLANs	
Administrative Trunk Untagged VLANs	
Operational Trunk Untagged VLANs	
Refresh	Apply

Figure 4-4 VLAN Ports page

ТАВ	Description
Port (Configuration table)	Choose a port to configure, refresh the page if selected port changes.
Switch Port Mode	Configure port VLAN mode
Access Pvid Override	If configure as enable, change vlan id of all received packets to be Access VLAN ID
Access Mode VLAN	Set port Access VLAN ID.
Administrative Access Egress VLANs	Set port permitted egress VLAN in Access mode.
Operational Access Egress VLANs	Display operational access egress VLAN.
Trunk Native Mode VLAN	Set port Native VLAN in Trunk mode.
Administrative Trunk Allowed VLANs	Set port Trunk mode permitted VLAN.
Operational Trunk Allowed VLANs	Display operational Trunk mode permitted VLAN.
Administrative Trunk Untagged VLANs	Set port Trunk mode permitted UNTAG VLAN.
Operational Trunk Untagged VLANs	Display operational Trunk mode permitted UNTAG VLAN.
Refresh	Refresh page, get current system information value.
Apply	Set contents in configuration table



5.1 ExtLoopBack Cfg

Set port loopback parameters in this page.

Port: 📉 🎽			
loopback dmac-swap:	✓		
loopback cvlan:	0	loopback svlan:	0
loopback smac:		loopback dmac:	
	Refresh	Apply	

Figure 5-1 ExtLoopBack Cfg page

ТАВ	Description		
Port	Choose a port to configure, refresh the page if selected port changes.		
loopback dmac-swap	Enable/disable Loopback group broadcast destination MAC address transfer.		
loopback cvlan	Configure Loopback CVLAN specification, inputting range: 1-4094		
loopback smac	Configure Loopback SMAC specification		
loopback dmac	Configure Loopback DMAC specification		
Refresh	Refresh page, get current system information value.		
Apply	Set contents in configuration table		

5.2 LoopBack Configuration

Set port loopback state and loopback holding time.

Port:				
Loopback Time(minute):	0		Loopback Mode:	×
	Refresh	Apply		

Figure 5-2 LoopBack Configuration page

ТАВ	Description		
Port	Choose a port to configure, refresh the page if selected port changes.		
Loopback Time	Port loopback holding time, inputting range: 0-30, unit: Minute. 0: loopback all the time.		
Loopback Mode	Port loopback state enable setting		
Refresh	Refresh page, get current system information value.		
Apply	Set contents in configuration table		



6.1 IP Config

This page is to set and display IP address of IP interface.

Interface: IPO 💙				
lp Address:	192.168.4.3	28		
NetMask:	255.255.25	5.0		
Vlan ID:	1	1		
Ref	resh	Apply	Delete	

Interface	lp Address	NetMask	Vlan ID
IPO	192.168.4.28	255.255.255.0	1

Figure 6-1 IP Config page

ТАВ	Description	
Interface	Choose an IP interface for configuration	
IP Address	Configure IP address	
NetMask	Configure network mask	
Vlan ID	Association vlan	
Refresh	Refresh page, get current system information value.	
Apply	set contents in configuration table	
Delete	Delete corresponding IP interface address from the device configuration table.	

6.2 MAC Config

This page is to configure static MAC and display all MAC addresses in the device.

Mac Address				
VLAN ID	0			
Port	0			
	Refresh	Apply	Delete	

MAC address count

36

Mac Address	VLAN ID	Port	Flag
001a.a013.f93f	1	21	Hit
000e.5e00.c6c1	2	21	Hit
001e.c942.d594	1	21	Hit
000e.5e00.548d	2	21	Hit
000e.5e02.b060	1	21	Hit
0023.ae7e.4224	1	21	Hit
000e.5e00.93ac	1	21	Hit
000e.5e38.0f61	2	21	Hit
000e.5e03.4003	1	21	Hit
000e 5e02 b060	2	21	Hit

Figure 6-2 Mac Config page

ТАВ	Description
Mac Address	Configure mac address, in format of xxxx.xxxx, this mac address should not be a multicast or broadcast address.
Vlan ID	Association vlan
Port	Association Port
Refresh	Refresh page, get current system information value.
Apply	Set content in configuration table
Delete	Delete corresponding static MAC configuration from device configuration table.



EOP Config E1 Config

7.1 Configuration in GFP mode

7.1.1 EOP Config

This page is to display related configuration and status of EOPDH.

Encapsulation mode	GFP 💙		VCAT:		enable 💌	
LCAS:	on \star		VLI:		enable 💌	
GFP scrambling:	enable 💌		GFP FCS:		enable 💌	
SDRAM:	full 💌		System E1 clock:		line 💌	
VCG member list:	1-8					
	Refres	:h	Apply			
E1 clock source:	1		VCG alarm:		LFD	
Number of actual RX members:	0		Number of actual TX members:		0	
TX user frames:	0		RX user frames:		0	
RX user FCS error fra mes:	0		RX user oversize fra mes:		0	
RX tHEC error frame s:	0					
Member	RX status	TX statu	IS	Memt	ber alarm	
1	fail	fail		LOM	CRCMND	
2	fail	fail	LOM		CRC MND	
3	fail	fail fail		LOM	CRC MND	
4	fail fail		LOM		CRC MND	
5	fail fail		LOM		CRC MND	
6	fail fail		LOM		CRC MND	
7	fail	fail fail		LOM	CRC MND	
8	fail	fail		LOM	CRC MND	

Figure 7-1 EOP Config page

ТАВ	Description		
Encapsulation mode	Configure EOPDH encapsulation mode		
VCAT	Enable/disable VCAT		

LCAS	Enable/disable LCAS		
VLI	Enable/disable VLI		
GFP scrambling	Enable/disable GFP scrambling		
GFP FCS	Enable/disable GFP FCS		
SDRAM	Configure SDRAM size		
System E1 clock	Configure E1 system clock		
VCG member list	Configure VCG member list		
Refresh	Refresh page, get current system information value.		
Apply	Set contents in configuration table		

7.1.2 E1 Config

This page is to set and display E1 interface.

Port:	~				
Auto CR	o:	×		Local loopback:	~
Loopbac	k detection:	~			
			Refresh	Apply	
L					
Port	Interface ty	pe	RX CRC4	Alarm	Loopback status
1	balance		disable	LOS	normal
2	balance		disable	LOS	normal
3	balance		disable	LOS	normal
4	balance		disable	LOS	normal
5	balance		disable	LOS	normal
6	balance		disable	LOS	normal
7	balance		disable	LOS	normal
8	balance		disable	LOS	normal

Figure 7-2 E1 Config page

ТАВ	Description	
Port	Configure EOPDH encapsulation mode	
Auto CRC	Configure CRC auto-negotiation function	
Local loopback	Enable/disable E1 interface local external loopback	
Loopback detection	Enable/disable E1 interface loopback detection	
Refresh	Refresh page, get current system information value.	
Apply Set contents in configuration table		

7.2 Configuration in HDLC mode

7.2.1 EOP Config

This page is to display related configuration and status of EOPDH.

Encapsulati	on mode:			Virtual channel error- shutdown:	disable 💙	
Virtual chanr ber list:	nel mem	1-8				
			Refresh	Apply	l	
Member	Send pa	ckets	Received packets	Received error	packets	Alarm
1	0		0	0		E1LOS
2	0		0	0		E1LOS
3	0		0	0		E1LOS
4	0		0	0		E1LOS
5	0		0	0		E1LOS
6	0		0	0		E1LOS
7	0		0	0		E1LOS
8	0		0	0		E1LOS

Figure 7-3 EOP Config page

TAB	Description	
Encapsulation mode	Configure EOPDH encapsulation mode	
Virtual channel error-shutdown	Enable/disable Error auto-shutdown function	
Virtual channel member list	Configure virtual channel member list	
Refresh	Refresh page, get current system information value.	
Apply	Set contents in configuration table	

7.2.2 E1 Config

This page is to set and display E1 interface.

L

Port: 📉 💌			
Clock mode:	~	Auto CRC:	*
Local loopback:	×	Loopback detection:	~
	Refresh	Apply	

Port	Interface type	RX CRC4	Alarm	Loopback status
1	balance	disable	LOS	normal
2	balance	disable	LOS	normal
3	balance	disable	LOS	normal
4	balance	disable	LOS	normal
5	balance	disable	LOS	normal
6	balance	disable	LOS	normal
7	balance	disable	LOS	normal
8	balance	disable	LOS	normal

Figure 7-4 E1 Config page

ТАВ	Description	
Port	choose an E1 interface for configuration	
Clock mode	Configure clock mode	
Auto CRC	Configure CRC auto-negotiation function	
Local loopback	Enable/disable E1 interface local external loopback	
Loopback detection	Enable/disable E1 interface loopback detection	
Refresh	Refresh page, get current system information value.	
Apply	Set contents in configuration table	

瑞斯康达科技发展股份有限公司 RAISECOM TECHNOLOGY CO.,LTD.