# FIBERROAD

# Web-Based Network Management System

User Manual

About This Manual

#### Introduction

This document chapter includes an introduction to the Fiberroad Managed WebGUI Network Management System, which also contains Fiberroad Industrial Grade Ethernet Switch and Commercial Grade Ethernet Switch Series.

#### Conventions

This document contains notices, figures, screen captures, and certain text conventions.

#### Figures and Screen Captures

This document provides figures and screen captures as examples. These examples contain sample data. This data may vary from the actual data on an installed system.

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#### Units of Measurement

Units of measurement in this publication conform to SI standards and practices.

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# **Revision History**

Version	Date	Author	Reasons of Change	Section(s) Affected
1.0	2019/07/12		Initial Release	All

# 1. About Fiberroad Network Management System

#### Web-based Operation

You will need to install the Fiberroad NMS software on a Windows computer connected to the network(s) that are to be managed. After installing Fiberroad NMS Software, the network can be managed using Chrome, Firefox, or Microsoft Edge (version 79+), without installing additional software.

Note: We recommend to use Chrome.

#### Auto Discovery and Topology Visualization

Within the Device Discovery, Fiberroad NMS locates networking devices with SNMP enabled. Fiberroad NMS can collect topology information from devices with LLDP capability and draw the topology of the network, which shows wired connections. If any managed PoE switches are in your network, the PoE power output information will also be visualized automatically.

#### Alarm Management

For troubleshooting purposes, Fiberroad NMS Alarm Info that match predefined conditions, such as link up/down, device unreachable, or traffic overloading. The most recent events will be displayed to inform users of the networking status. Devices and links that generate events will be highlighted with different colors.

#### **System Requirements**

The Computer that Fiberroad NMS is installed on must satisfy the following system requirements:

OS: Windows7 or above, Windows Server
CPU: 3.2GHz or faster dual core cpu;
RAM: 4G or Higher;
Hard Disk Space: 50G or higher;

# 2. Installation and Start-Up

#### 2.1 Install software on Windows

Decompress the installation package to the installation directory. The decompression contains five subdirectories: java, script, setup, switchdb, and tomcat

- **1)** The installation must be in an English path
- **2)** You are advised to decompress the file to a non-system disk to avoid problems caused by windows write permission.

**3)** Open the installation directory and execute ch\_setup.bat and en\_setup.bat in the setup subdirectory. This script only needs to be executed during the first installation.

- Install the Chinese version of the software and run ch\_setup.bat
- Install the English version of the software and run en\_setup.bat

#### 2.2 Software startup and use

**1)** To start the service, double-click nms.bat in the installation directory.

**2)** To Stop the service: close the console window opened by starting the service.

🛅 java	2022/11/17 17:19
🗖 scripts	2022/11/17 17:15
🗖 setup	2022/11/17 17:15
switchdb	2022/11/17 17:27
🗖 tomcat	2022/11/17 17:15
🦫 nms	2022/11/17 17:28
SWITCHMANAGER-RELEASE-NOTES.md	2022/3/12 20:05
🖷 User manual	2022/3/12 20:05

# 3, SNMP Trap and LLDP Configuration

3.1 Enter the web managemet interface of Fiberroad ethernet switch, click **Management** ->**SNMP**->**Trap Settings**, change the management state and send SNMP authentication failure TRAP to **enable**, and set the server IP address of the computer that installed the network management system software, as shown in the figure:

SNMP Trap Setting								
Admin Status	Enab	ExaMple Objected						
Send Authentication Failed Trap	Enab	abled O'Disabled						
Default Trap Community	public		(Any UTF-8 String Except Spaces, MAX: 127 Bytes)					
Trap Servers	Index	Community (Any UTF-8 String Except Spaces, MAX: 127 Bytes)		Server IP Address	Server IP Port <1-65535>	Add		
	1	public		192.168.1.138	162			
			Apply					

3.2 Click Management ->LLDP-> Global Setting to enable LLDP, as shown in the figure

Expand  Collapse	LLDP global setting		
Device Summary	LLDP afmin status	Enabled V	
(i) System	Transmit interval	30	<5-32/88> Default 30 second
Management	Bold multiplier	4	<2-109 Default-4
IP Interfaces	Rend delar	2	<1-102 Default 2 second
U SNMP	Tone internal	30	C-1600) Default 30 second
-V1/V2 Setting	Tununi coolit sun	6	(1-100) Defailt 5
Tran Cattion	East transmit interval	1	(1.1900) Defuil Langel
witter	Find Antonio di Antonio		(DDD-b))
-Global Setting	Pitel Patentist Kom		STOP PRIMA
Port Configurations			Apply
Base Configuration			
B Advanced			
8 Ports			
* ACL			
EHCP shooping			
B DHCP Server			
🕯 Multicast			
* GMRP			
# GVRP			
\$ 802.1X			
Link Aggregation			
Eoopback			
\$ STP			
* ERPS			
E3 Config			
Ə Alarm			
Extended			

# 3.3 Click **Management ->LLDP-> Port Configuration** to change the port admin status to **Transmit and Receive**, as shown in the figure

	expand) Collapse	Port	Destination address	Admin Status	Transmit interval(s)	Hold multiplier	Reinit delay(1)	Trap interval(s)	Transmit credit num	Fast transmit interval(s)	Fast transmit num	Trap enable	TLVs transmit enable
	Device Summary	•	0180C2-00000E ¥	0 V								0 V	•
ļ	Management	OE/1	0180C2-00000E	Disabled 👻	0	0	0	0	0	0	0	Disabled ~	•
	IP Interfaces	OE/2	0180C2-00000E	Disabled V	0	0	0	0	0	0	0	Disabled ~	•
	S SNMP	GE/3	0180C2-00000E	Disabled •	0	0	0	0	0	0	0	Disabled ¥	•
	-V3 Setting	QE4	0180C2-00000E	Disabled V				0			0	Disabled ¥	•
	Trap Setting	OE/5	018007-000008	Disabled ¥		0		0				Disabled v	
	® LLDP	0.0.4	018073 00007	Disabled re								Disting	
	-Global Setting	QE-9	0180C2-00008	Uisabied	e							Unsatured +	
1	Base Configuration	OE/7	0180C2-00000E	Disabled 👻	0	0		0	0	0	0	Disabled V	•
	Advanced	GE/8	0180C2-00000E	Disabled V	0	0	0	0	0	0	0	Disabled ~	•
	* Ports	OE 9	0180C2-00000E	Disabled 👻	0	0	0	0	0	0	0	Disabled ¥	•
	ACL     DUCD execution	QE/10	0180C2-00000E	Disabled 👻	0	0	0	0	0	0	0	Disabled ~	•
	OHCP Server	GE/11	0180C2-00000E	Disabled 👻	0	0	0	0	0	0	0	Disabled ~	•
	Multicast	<b>OE</b> /12	0180C2-00000E	Disabled •	0	0	0	0	0	0	0	Disabled ~	•
	GHRP	OE/13	0180C2-00000E	Disabled V	0	0		0			0	Disabled ¥	•
	GVRP	07/14	018077-000005	[Disabled w]								Disabled w	
	Link Aggregation	02.14		Disabled +	•			•				Construct +	
	* Loopback	QE/15	0180C2-00000E	Disabled	0			0			0	Unatied V	· · ·
	* STP	QE/16	0180C2-00000E	Transmit And Receive V	0	0	0	0	0	0	0	Disabled V	•
	* ERPS	<b>GE</b> /17	0180C2-00000E	Disabled 👻	0	0	0	0	0	0	0	Disabled ¥	•
	-L3 Conng Alarm	QE/18	0180C2-00000E	Disabled 👻	0	0	0	0	0	0	0	Disabled ~	•
	Extended	<b>GE/19</b>	0180C2-00000E	Disabled 👻	0	0	0	0	0	0	0	Disabled ¥	•
		<b>GE</b> /20	0180C2-00000E	Disabled 👻	0	0	0	0	0	0	0	Disabled ~	•
					<u> </u>				<u> </u>				

3.4 Click **Alarm ->Trap Setting** to enable the admin status of online and offline ports, as shown in the figure

exhaunt coustise					
-Device Summary	Alarm Event	Port	Admin Status	Link Status	Alarm Status
System		•	0 V		
8-Management	LinkUp	CE/I	Disabled V	*	No
* IP Interfaces	LinkUp	GE/2	Disabled V	*	No
0 SNMP	LinkUp	OE/3	Disabled V	×	No
-V1/V2 Setting	LintUp	GE/4	Disabled V	×	No
-V3 Setting	LinkUp	GE/5	Disabled V	×	No
i-Trap Setting	LintUp	GE/6	Disabled V	×	No
E LLDP	LinkUp	GE/7	Disabled V	×	No
-Global Setting	LintUp	GES	Disabled V	*	No
-Port Configurations	LinkUp	GE 9	Disabled V	*	No
Base Configuration	LinkUp	GE/10	Disabled ¥	*	No
E Advanced	LinkUp	OE/11	Disabled V	*	No
e Ports	LinkOp	QE/12	Disabled V	*	No
A DHCP enconing	LinkUp	GE/13	Disabled V	*	No
B-DHCP Server	LinkUp	QE/14	Disabled V	*	No
R-Multicast	LinkUp	GE/15	Disabled V	*	No
*-GMRP	LinkUp	GE/16	Enabled ¥	¥	Yes
* GVRP	LintUp	GE/17	Disabled V	*	No
€ 802.1X	LinkUp	GE/18	Disabled V	×	No
Eink Aggregation	LintUp	GE/19	Disabled V	×	No
*-Loopback	LeatUp	QE/20	Disabled Y	×	No
*-STP	LinkUp	GE/21	Disabled V	×	No
2 ERPS	LinkUp	GE/22	Disatled V	×	No
8-L3 Config	LinkUp	GE/23	Disabled Y	×	No
8-Alarm	LinkUp	GE/24	Disabled Y	×	Ng
Relay Setting	LinkUe	0E/25	Disabled ¥	*	No
Led Setting	Lintle	GE/26	Disabled ¥	*	No
Temperature Setting	Tabla	05.27	Dirabled at	*	No
- Duran Katting			Apply Refresh		
in Theorem					
The cyclemaen					

After the configuration is complete, go to the network management software to access other configurations, and view the network management software description.

# 4. Network Management System Interface

# 4.1 Login

After the software is installed and started, open the Chrome browser ,type <u>http://localhost:8080/login</u> in the address bar that can enter the login interface of the software.

Username: admin Password:admin



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gement	I Home			
gement nations anagement	Network Stats		Device Type Stat	
es nagement Inament	Total Device : 0	Online Device : 0		
iew mant	Link Count : 0	Link Down Count : 0		
ms	Alarm Count : 0	Non-Ack Alarm Count : 0		
	Device Unine Late	20 30 30 30 30 30 30 30 30 30 3	Alarm Stats	

The main interface can be divided into four areas: main menu, function navigation bar, opened page and user setting

1. The main menu mainly displays several large functional categories of the software. After a function category is selected, the functions provided by this function category are displayed on the right.

2. The function of the function navigation bar is to display the functions under the selected function category. If you select a function, the operation interface of the function opens.

3. The opened page area shows the functional operation interface that has been opened but not closed. You can switch different operation interfaces in this area.

4. System Settings are used to manage users and roles, network management information is used to display devices, pipes and topologies of links, alarm management is used to process device alarms, and Report statistics display statistical data on a page.

# **4.3 System Settings**

#### 4.3.1 Role Managment

#### Click System Settings ->Role Management

The below figure shown has five setting: Query, Create, Edit, Delete and Reset.

← → C ③ localh	iost:8080/main					Guest :
						8
			8	管理员、Hi! 备 <u>Logout</u>		
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Gystem Settings     Role Management	(SA8 + []	5 × 🖸 🖂 Query	Create & Coll Boliste BReset			
🚨 User Management	Query Condition					
Network Informations	Role Types:		Role Description:			
Network Files						
Unk Management	Role Types	Role Description				
Topology View     Alarm Management	User	User				
Alarm Information						
A Stat. Report						
System Stat						
	H 4 Page 1 of 1 P	20 Size 20				Displaying topics 1 - 2 of 2

1) Click the "**Create**" button to pop up the "edit" window. After filling in relevant information, click the "**Save**" button to add a new user.

2) Query, Query conditions by id, role type, and role description

3) Select an account, you can edit, delete this account.

#### 4.3.2 User Management

Click System Settings ->User Management

Network Management S	ystem × +														
$\leftrightarrow$ $\rightarrow$ C $\odot$ locality	ost:8080/main	1													Guest :
															8
							急管理员。	Hi! & Logout							
🛒 Main Menu 🔍 🕫	🔬 Home 🏼 🦽	Role Management	🗵 🚨 User Hanag	ement 🗵											
4 (2) System Settings	NAI •		~	🔍 Query   🧠 Ne	w 🌚 Edit 🧠 Delet	e SReset									
Role Management	- Search Criter	rion													
4 III Network Informations	Acc	count: admin			Full N	ame:			Sex (0: )	Male: 1:				E-Mail:	
Network Management									F	emale):				Phone:	
S Device Management	Active (1: A	ictive;													
Link Management	0: Inac	ctive]:													
4 Alam Management															
S Alarm Information	Account	Full Name	Sex	E-Mail	Phone	Phone	Login Fail Times	Last Login	Last Login IP	Remark	Active	Job Code	Dept.		
Solved Alarms	admin [	Fiberroad	Malo		15002098130		1	2022-11-17 17:55:59	192.168.1.138		Yes	1			
Nystem Stat.															
	N N Page	1 of 1   > >	🖓 siza 🛛 20												Displaying topics 1 - 1 of 1
						-				-					

1) Click the "**New**" button and a webpage dialog box will pop up. You can save and reset it after filling in the relevant information.

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- 2) Select an account, click the Edit button, and the dialog box for modifying the web page will pop up. You can save the modified information and cancel the modified operation.
- 3) Enter related conditions in the criteria bar to query criteria.

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- 4) Select the user to be deleted and click the Delete button to delete the user.
- 5) Click the reset button, and the page return to initial states

### **4.4 Network Information**

#### 4.4.1 Network Management

#### Click Network Information->Network Management

The below figure shown has five setting: Query, Create, Edit, Delete and Reset.

1. Click the "Create" to pop up the new page.

2. After filling in the relevant information, click the Save to add a new network.

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				(4) 管理员, Hill (	© Logout			
Menu 🤘 🖉	A Home Are Role Manager	ment 👘 🕹 User Management 👘 📎	Network Management (*)					
em Settings	SAL •	13 - 13 J. Out	ry   🤫 Create 💇 Erit 🧠 Dubute   🥵	Reset				
ole Management	Ouery Condition							
ork informations	Network Home		Directory Norman		Dection		Enther Made ID:	
stwork Management	HELWOIK HOUSE.		Chigan Marries		Puokini.		People Hunde ID.	
twark Files	Kemark:							
vice Management								
pology View	10 Network No.	Network Name	Display Namo	Position	Father Node ID	Remark		
Management	E 12	Fiberroad01	Fibercad01					
em Information								
Ived Alarms								
stem Stat								
	Page 1 of 1	> >  🖓 size 20						Displaying topic

## 4.4.2 Network Files Click Network Information->Network Files

The below figure shown has five setting: Query, Create, Edit, Delete and Reset.

← → C ③ local	host:8080/main				🖬 😝 Guest
			Arma un A	1.000/#	
	A trans	C Dece Management		LEODER	
System Settings	THE PART OF THE PARTY OF THE PA		Covery de Carate d'EFEII de Dointe Referent		
Ania Management	- Query Condition		and allowing the allowing the second		
Initial a second s	Field Name:		Field Value:	Remark:	
Network Management					
Device Management	E Field Name	Field Value	Remark		
Link Management Topology View	updateDeviceInfoTimeInterval	60	DeviceInfo time interval unit second		
Alarm Management	localIP	0.0.0	snmp Trap monitoring IP Address		
Alarm Information Solved Alarms	MtpTmeOut	2010	the timeout period for http:requests to obtain device status is expressed in mil.		
Stat. Report					
m System Stat.					

1). Click the "**Create**" and a dialog box will pop up to add the Field Name. You can save and reset the page after filling in the field information.

	System × +							∨ - o ×
$\leftarrow \rightarrow \mathbf{C}$ (i) localh	ost:8080/main							Guet :
					Alessut			
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a Pan Penu Collega	Sat Home Be Role Management		When the standard of the second secon				×	
Role Management								
Liser Management	Query Condition		Field Name:					
Network Management	Field Name:		Field Value:					
Network Files			Remark:					
Oevice Management Link Management	Field Name	Field Value						
Topology View	updateDeviceInfoTimeInterval	60						
A international Alarm Management	iccallP	0.0.0						
Solved Alarms	E http://www.	2000						
a 🐚 Stat. Report								
System Stat.								
						Save Reset		

2) Select a Field Name, click the Edit button, the create message dialog box will pop up, you can view the information of this field

3) Enter related conditions in the criteria bar to query criteria.

4) Select the Field Name to be deleted and click the Delete button to delete the Field Name.

5) Click the reset button, and the page return to initial states

#### 4.4.3 Device Management

# Click Network Information->Device Management

- 1) In the device search dialog box,
- enter the Start IP address and End IP address.
- Select "Yes" for "Whether To Use Ping".
- Link Found: Select both LLDP link Discovery Protocol and Port forwarding
   Protocol
- Enter "public" in the SNMP Read Community
- SNMP Version" V2c
- Belong Network: Select as needed

			анел. н. ац.	asout		
		ine Management ···				
ettings Lähägement		E QDe				
Asnagement Informations		*Start IP Addres	0: 192.168.1.1			
rk Manapement		*End IP Address	6 192.168.1.20			
e Management		Unk Found:	Ping: Ves SNe	Ent forwarding protocol		
		*SNIP Read Co	mnunity : public	C Part to marking protocol	Relong Network: Please Select	
nagament		SNMP Version:	⊖ V1 <b>●</b> V2c			
LAlacena	Device IP Device MAC	Device Name Belong Notwork	k: Fiberroad01			
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a e e e Settings Anagement Informations int: Nanagement Informations i Management Ianagement Ianagement Information	Ourry Condition         Processor         Procesor         Processor	Overse Search Query      Device Search Query      Device Name     Device Device Description     bottoh Industrial Ensemt	Device MAC: Stellip Port: Abordsea: Device Type Device Status Jonda Schwert V Switch Orece	Dente Name: Selle Vesson: Ordinate: Absches Codinate Barlong Network Pitermado1	Device Desition: SWP Red Commenty : Being Heterol: [fices Select	
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2) Input the relevant query conditions and click the query button to display the relevant query information.

3) Click the Create button to display the new device text box. Enter related information and click Save to add the device.

4) Select a record and click Edit to modify the device information.

5) Select a record and click Delete to delete it.

6)Select a record and click to view the port information. The port information window is displayed, showing related information.

7)Select a record and click to view the device system information. A related window is displayed, showing the related information.

8)Select a record and click the CPU memory information. The related information is displayed.

9)Click the Reset button to initialize the page.

#### 4.4.4 Link Management

#### Click Network Information->Link Management

1) Enter the relevant query conditions and click the query button to display the relevant query information.

2) Click the New button. A new window is displayed to record the alarm information of a device. Click Save.

3) Select a certain log and click the Delete button to delete the log.

4) Select a certain log and click Edit. The edit window pops up to edit the relevant information.

5) Click the Reset button to initialize the page.

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#### 4.4.5 Topology View

#### Click Network Information->Topology View

- 1) After selecting the belong network, click Show Topology to display the topology view. Note that the topology can be displayed only when device management and link management are configured.
- 2) The device displayed in the topology can be moved, dragged, adjusted, or enlarged or shrunk. Right-click the specified device to view basic information, alarm information, delete the device, start point of the device, and set the end point of the device, as shown in the following figure:

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# 4.5 Alarm Management

#### 4.5.1 Alarm Information

#### Click Alarm Management ->Alarm Information

1. Enter the relevant query conditions and click the query button to display the relevant query information.

2. Click the New button. A new window is displayed to record the alarm information of a device. Click Save.

3. Select a certain log and click the Delete button to delete the log.

4. Select a certain log and click Edit. The edit window pops up to edit the relevant information.

5. Click the Reset button to initialize the page.



#### 4.5.2 Solved Alarm

#### Click Alarm Management ->Solved Alarm

1) Select the user and click Delete to clear the alarm scheme.

2) Enter the search criteria and click the search button to query the alarm scheme information.

3) Select a record and click the "Edit" button to modify the relevant scheme. Click "Save".

4) Click the Reset button to initialize the page



# 4.6 Stat. Report

# 4.6.1 System Sta.

Click Alarm Management ->Solved Alarm

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- **1) Network States** indicates the statistics on various types of information on the entire network.
- **2) Device Type Stat** indicates the statistics on device types in a fan chart formed by percentage.
- **3) Device Online Rate** indicates the fan chart formed by the percentage of online devices.
- **4) Alarm Stats** indicates the fan chart showing the percentage of each level of device alarms.

You can click Refresh data in the upper left corner to refresh the information on the interface.

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