



EOC Web User Interface Guide

V1.7.1

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1. Introduction

1.1 Brief Views

WEB based network management for EOC is a one of the mode to manage the EOC products.

It need following runtime environment:

- Operating System: Windows2000, Windows XP, Windows NT, Windows Vista and Windows 7
- Hardware requirement: CPU PIII 800 above, 256M memory, 1G disk space and 10/100M Ethernet interface

1.2 Functional Features

WEB management support the following function in Table-1-1:

Item	Sub-item	Description
Slave Management	Authorization Management	To manage the slave by authorized and un-authorized slave with a white list
	Online Slave List	Show online slave in white list
	Configuring Template	Manage the template of slave configuration
	Port	Show and setting port configuration
	RF Information	Show RF information
Network	Show Running Status	Show running status of EOC Master
	Configuring	Configure the IP, subnet mask, gateway and interface mode
	VLAN Configuring	Setting the VLAN of uplink
	Filter Configuring	Enable broadcast limiting function and setting the threshold parameter
Service	Configuring Service	Turn on and turn off some service of the system
System	Running Status	Display the system running status, such as online time, memory size, remaining memory, storage space, remaining space, space utilization.
	Information	Display system information, including chip model, device type, software version, hardware version, serial number, SYS-MAC address, EOC-MAC address, amount of online slave
	Slave Type	Add, edit and delete the slave type
	System Log	Show system log

	Account	Manage the account
	Reboot	Reboot the system
	Factory Set	Restore factory settings
	Save	Save the current configuration
	Upgrade	Upgrade from FTP server.
Save	Save	Save the current configuration
Exit	Exit	Exit from the WEB user interface

2WEB Page Reference

This topic describes the usage and meanings of the parameters on the Web Page.

2.1 Logging in to the Web Interface

This topic describes the data plan and procedure for logging in to the Web configuration interface.

Before setting up the configuration environment, ensure that data information listed in table Table2-1 is available.

Item	Description
User name and password	Default settings: Administrator: – User name: admin – Password: admin
LAN IP address and subnet mask	Default settings: IP address: 192.168.1.2 (Out-band Network) IP address: 192.168.2.2 (In-band Network) Subnet mask: 255.255.255.0
LAN IP address and subnet mask	Configure the IP address of the PC to be in the same subnet as the LAN IP address of the EOC For example: IP address: 192.168.1.100 (From Out-band) IP address: 192.168.2.100 (From In-band) Subnet mask: 255.255.255.0

Procedure

Step 1: Use a network cable to connect the LAN port of the EOC master to a PC.

Step 2: Ensure that the Internet Explorer (IE) of the PC does not use the proxy server. The following section considers IE 6.0 as an example to describe how to check whether the IE uses the proxy server.

1. Start the IE, and choose Tools Internet Options from the main menu of the IE window.

Then, the Internet Options interface is displayed.

2. In the Internet Options interface, click the Connections tab, and then click LAN settings.

3. In the Proxy server area, ensure that the Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections). Check box is not selected (that is, without the "√" sign). If the check box is selected, deselect it, and then click OK.

Step 3 Set the IP address and subnet mask of the PC. For details, see Table 2-1.

Step 4 Log in to the Web configuration interface.

1. Enter http://192.168.1.2 in the address bar of IE (192.168.1.2 is the default IP address of the EOC Master), and then press Enter to display the login interface, as shown in Figure 2-1.



2. In the login interface, enter the use name and password, and select your preferred language. For details about default settings of the user name and password, see Table 2-1. After the password authentication is passed, the Web configuration interface is displayed.

----End

2.2 WEB Frame Introduction

After successfully login, software comes to main frame as Figure-2-2:



As above figure, main frame contain following several parts:

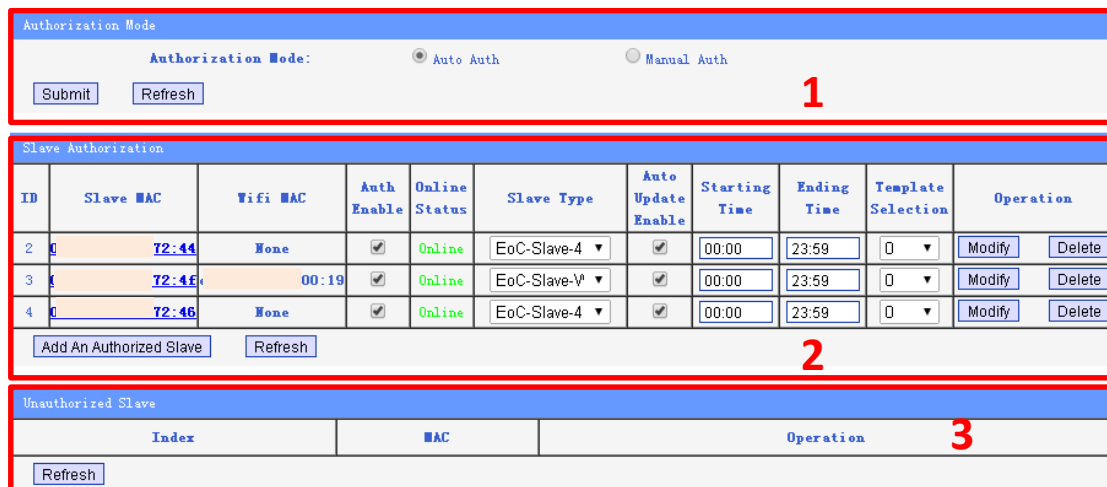
1. Program Menu Part;
 2. Content Display
- Program Menu Part
Operation menu contain Slave, RF, Network, Service, System, Save, Exit.

2.3 Slave

This topic describes how to manage the authorization of slave, online slave configuration, configuration template, ports of slave.

2.3.1 Authorization

In the navigation tree on the left, choose Slave >Authorization. In the pane on the right, management authorization of slave, as shown in Figure2-3



There are three parts in the pane.

1. Authorization Mode
2. Slave Authorization
3. Unauthorized Slave

The authorization function supporting adding and removing slave devices securely from the network. The slave which is not in the white list can't use the network.

Authorization Mode: Auto Authorization, Manual Authorization

Auto Authorization: Adding the slave automatically as it connect in the network.

Manual Authorization: When the slave connect in the network, it will be added in the Unauthorized Slave list, as the operator click the 『Authorize』 it will be added in Slave Authorization. The Slave Authorization list also be called White List.

Authorization Mode

Authorization Mode: Auto Auth Manual Auth

Slave Authorization

ID	Slave MAC	Wifi MAC	Auth Enable	Online Status	Slave Type	Auto Update Enable	Starting Time	Ending Time	Template Selection	Operation
2	72:44	None	<input checked="" type="checkbox"/>	Online	EoC-Slave-4	<input checked="" type="checkbox"/>	00:00	23:59	0	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
4	72:46	None	<input checked="" type="checkbox"/>	Online	EoC-Slave-4	<input checked="" type="checkbox"/>	00:00	23:59	0	<input type="button" value="Modify"/> <input type="button" value="Delete"/>

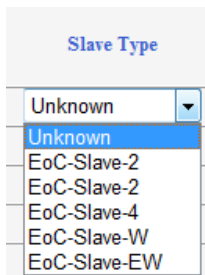
Unauthorized Slave

Index	MAC	Operation
1	:72:4f	<input type="button" value="Authorize"/>

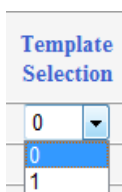
Note: It will spend one minute for the authorization process, please wait patiently.

In 『Slave Authorization』, you can change the Slave Type and the Template Selection in the 『Slave Authorization』 list.

Slave Type is to identify the slave by the type defined by the manufacturer. The Type will show as below. For more information about the Slave Type can got to SYSTEM>Slave Type dialog box. (Reference 2.7.3)



Template Selection is to select a configuration that uploading from the master to that slave as it connecting to the network. For more information about the template can got to Slave>Template dialog box. (Reference 2.3.3)



Auto Update Enable is to set the slave getting the configuration template automatically or not.

Your also can add a salve manual by click 『Add An Authorized Slave』. The following screen is displayed:

Input the desired value in the following boxes: Slave MAC address, Slave Type, Starting Time, Ending Time, Register Enable, Auto update Enable, Application of template configuration. Click Submit to submit your request or Reset to return to the default value, or Back to return to the pre-page.

Click the MAC in 『Authorization』 white list.

The slave management dialog box is displayed as below:

On the top of pane is the sub-menu (1), on the center of pane is the content displayed box (2).

The sub-menu is “slave Basic Information”, “Slave Configuration Information”, “Slave MAC Table”.

1) slave Basic Information:

The following table describes the labels in this screen

Label	Description
Slave Type	Salve Type provide by manufacturer (Reference 2.7.3), Select a device from the drop-down list box

Port Number	This field displays the port number
Software Version	An assigning unique version numbers to unique states of the slave software.
User Information	An assigning unique name to unique the slave, it assigned by the user. Slave>Online displayed box will show user information (Reference 2.3.2)
Attenuation	The attenuation of the link between the master and slave
Signal Noise Ratio	SNR of the slave, it is useful for maintaining to evaluate the quality of the link
Modulation	The modulation efficiency in bits/carrier
Speed	This field displays the speed of uplink and downlink in Mbps
Apply	Click Apply to save the changes in this section.
Refresh	Click this to update the data on this section
Help	Click this to go to the home page with the Technical Support information
Reboot	Click this to restart the device. This does NOT affect the device's configuration.

2) Slave Configuration Information:

With the slave configuration box, you can configure the template of the slave.

	Pane	Description
1	Slave	Show current slave's MAC address
2	Template Selection	You can select the slave template to apply to the slave. You can configure the template in the Slave>Template screen. (Reference 2.3.3) .
3	Template Configuration	You can configure the slave and save the configuration as a private template for the slave.
4	Current Configuration	Show current status of the slave

Slave Basic Information Slave Configuration Information Slave MAC Table

Slave [(:72:44)] 1

Template Selection 2

Template Application: [0] No Template

Template Configuration 3

Enable broadcast restriction: Enable multicast restriction: Enable unknow unicast restriction:

Restriction threshold (pps): [0]

Enable loopback check:

Port	Enable Port	Speed&Duplex	Vlan Mode	PVID	Allowed VLAN	COS	UpLink Max Speed (0-102400)Kbps	DownLink Max Speed (0-102400)Kbps
1	<input checked="" type="checkbox"/>	auto	Disabled	0		0	0	0
2	<input checked="" type="checkbox"/>	auto	Disabled	0		0	0	0
3	<input checked="" type="checkbox"/>	auto	Disabled	0		0	0	0
4	<input checked="" type="checkbox"/>	auto	Disabled	0		0	0	0

Current Configuration 4

Port	Link Status	Loop	Enable Port	Adaptive	Speed	Duplex	PVID	COS
1	Disconnect	No	Enable	Enable	10Mbps	Half duplex	0	0
2	Disconnect	No	Enable	Enable	10Mbps	Half duplex	0	0
3	Disconnect	No	Enable	Enable	10Mbps	Half duplex	0	0
4	Disconnect	No	Enable	Enable	10Mbps	Half duplex	0	0

Label	Description
Pane 1: Slave	
Slave	Show current slave's MAC address
Pane 2: Template Selection	
Template Application	You can select the slave template to apply to the slave. You can configure the template in the Slave>Template screen. (Reference 2.3.3) .
Apply	Click Apply to save the changes in this section.
Pane 3: Template Configuration	
Broadcast Suppression Enabled	Broadcast suppression prevents LAN interfaces from being disrupted by a broadcast storm. You can enable this feature by elect the Broadcast Suppression Enabled check box
Loop Detection Enabled	Loop detection allows the device to detect loops and disable a port that is on the receiving end of a loop. A loop is detected by sending test packet. You can enable this feature by select the Loop Detection Enabled check box
Mode	This field displays the mode of the port. The speed and duplex mode settings for the port. You can use this parameter to set the speed and duplex mode of a port. Possible settings are: Auto - The port is using Auto-Negotiation to set the operating speed and duplex mode. This is the default setting for all ports.

	<p>The actual operating speed and duplex mode of the port are displayed in parentheses (for example, “100F”) after a port establishes a link with an end node.</p> <p>100M/Full - 100 Mbps in full-duplex mode 10M/Full - 10 Mbps in full-duplex mode 100M/Half - 100 Mbps in half-duplex mode 10M/Half - 10 Mbps in half-duplex mode</p>
VLAN	<p>Ethernet interfaces can be configured either as access ports or a trunk ports, as follows:</p> <p>Disable:</p> <p>Access: An access port can have only one VLAN configured on the interface; it can carry traffic for only one VLAN.</p> <p>Access (Receive) Tagged = PVID : Refuse Access (Receive) Tagged =/ PVID :Refuse Access (Receive) Untagged: Receive and add tag with PVID Access (Transmit) Tagged = PVID: Forward and delete tag Access (Transmit) Tagged =/ PVID: Not forward and not process</p> <p>Trunk: A trunk port can have two or more VLANs configured on the interface; it can carry traffic for several VLANs simultaneously.</p> <p>Trunk (Receive) Tagged = PVID:Received and not change tag Trunk (Receive) Tagged =/ PVID:Received and not change tag Trunk (Receive) Untagged:Received and add tag=PVID Trunk (Transmit) Tagged = PVID If Passing then forward and delete tag Trunk (Transmit) Tagged =/ PVID If Passing then forward and not change tag</p>
PVID	<p>A PVID (Port VLAN ID) is a tag that adds to incoming untagged frames received on a port. Enter the port’s VLAN ID (between 1 and 4095). A VLAN tag reflecting the PVID is inserted in the frame forwarded through the port.</p>
Trunk Vlans	<p>To assign a VLAN ID, type a VLAN ID in the VLAN ID field. Choose a value between 2 and 4,093. Multiple tags are comma separated.</p>
COS	<p>Virtual Local Area Network (VLAN) 802.1p priority tags, also called ‘Class of Service (CoS)’ tags, on Ethernet frames are used to specify 8 (0 – 7) levels of ‘user priority’.</p>
Uplink MAX Speed	Slave upstream maximum speed
Downlink MAX Speed	Slave downstream maximum speed
Apply	Click this to save the settings

Clear Cable Speed Limit	Clear the speed limit at coaxial cable link,, the function specially for the slave configured speed limit by the third-party EOC mater.
Refresh	Click this to refresh the information of this screen
Help	Click this to go to the home page with the Technical Support information
Pane 4: Current Configuration	
Port	Number of the port
Status	Show the status of the port , link up or link down
Loop	Loop detection result of the port
Enable	The port current status is enabled or disabled.
Auto	If mode of the port is auto, this field displays enable, otherwise it displays disable.
Speed	This field displays the speed of the port.
Duplex	This field displays the mode of the port.
PVID	This field displays the PVID of the port.
COS	This field displays the COS of the port.
Refresh	Click this to refresh the information of this screen

At pane 3, Template Configuration, when you changed the configuration, the system will save a private template for the slave. The private template number will be 300+Slave ID. The private template is available only for the salve.

Slave [:1e:30]

Template Selection

Template Application: 304 Private Template

Template Configuration

Broadcast Suppression Enabled: Loop Detection Enabled:

Port	Enable	Mode	Vlan	PVID	Trunk Vlan	COS	UpLink Max Speed (0-102400)Kbps	DownLink Max Speed (0-102400)Kbps
1	<input checked="" type="checkbox"/>	100M/ha	Disable	1		0	0	0
2	<input checked="" type="checkbox"/>	100M/ful	Disable	1		0	0	0

Current Configuration

Port	Status	Loop	Enable	Auto	Speed	Duplex	PVID	COS
1	LinkDown	No	Enable	Disable	100mbps	Half duplex	0	0
2	LinkUp	No	Enable	Disable	100mbps	Full duplex	0	0

Slave Authorization

ID	MAC	Auth Enable	Online Status	Output Level (dBuV)	Slave Type	Auto Update Enable	Starting Time	Ending Time	Template Selection	Operation
1	:1e:36	<input checked="" type="checkbox"/>	Online	129	CD5102	<input checked="" type="checkbox"/>	00:00	23:59	0	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
2	:1e:38	<input checked="" type="checkbox"/>	Offline	129	CD5102	<input checked="" type="checkbox"/>	00:00	23:59	0	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
3	:1e:3c	<input checked="" type="checkbox"/>	Online	129	CD5102	<input checked="" type="checkbox"/>	00:00	23:59	303	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
4	:1e:30	<input checked="" type="checkbox"/>	Online	129	CD5102	<input checked="" type="checkbox"/>	00:00	23:59	304	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
5	:1e:39	<input checked="" type="checkbox"/>	Offline	129	CD5102	<input checked="" type="checkbox"/>	00:00	23:59	0	<input type="button" value="Modify"/> <input type="button" value="Delete"/>

Note: For slave the VLAN enable and disable will take effect on all ports simultaneously. It

means the all ports will enable VLAN (ACCESS mode or TRUNK mode), or disable VLAN.

3) Slave MAC Table

The screen displays the MAC address table of the slave.

Slave Basic Information Slave Configuration Information Slave MAC Table

Slave [00:1a:69:7a:72:44]

MAC Table

The Number Of MAC: 1

MAC Detail

Index	MAC
1	00:1a:69:7a:72:45

Refresh

2.3.2 Online

In the navigation tree on the left, choose Slave >Slave. In the pane on the right, online slave will list as shown in Figure2-3:

Online Slaves Number: 3

ID	Slave MAC	Wifi MAC	User Information	Attenuation (dB)	Upstream SNR (dB)	Downstream SNR (dB)	Upstream Speed (Mbps)	Downstream Speed (Mbps)	Operation
15	00:1a:69:7a:72:44	None		36	27.41	29.67	422	448	Reboot
16	00:1a:69:7a:72:45	e0:67:b3:42:00:19		36	27.20	28.46	420	434	Reboot
17	00:1a:69:7a:72:46	None		36	29.15	27.88	442	428	Reboot

Reboot All Online Slaves Refresh

The following table describes the labels in this screen

Label	Description
Online Slaves Number	Online slave here is the slave in the white list and register to the master
ID	An assigning unique ID numbers to unique slave
Slave MAC	MAC address of the slave. Click the MAC in online slave list will display slave management dialog box .
Wifi MAC	If the slave support Wifi then here display the MAC address of the Wifi
User Information	An assigning unique name to unique the slave, it assigned by the user. Slave>authorization> slave Basic Information displayed box can set user information.
Attenuation (dB)	The attenuation of the link between the master and slave
Upstream SNR (dB)	Upstream SNR of the slave, it is useful for maintaining to evaluate the quality of the uplink
Downstream SNR (dB)	Downstream SNR of the slave, it is useful for maintaining to evaluate the quality of the downlink
Upstream Speed (Mbps)	This field displays the speed of uplink in Mbps
Downstream	This field displays the speed of downlink in Mbps

Speed (Mbps)	
Operation	Reboot, click this to restart the device. This does NOT affect the device's configuration.
Reboot Online Slave	Click this to restart the online slaves. This does NOT affect the device's configuration.
Refresh	Click this to update the data on this section
Help	Click this to go to the home page with the Technical Support information

Note: From reboot the slave to the slave online, this will take to one or two minutes.

2.3.3 Template

A template is a pre-configured set of configuration settings. Templates allow you to configure slave settings efficiently. The template can then be uploaded to one or more devices thus removing the need to configure the corresponding settings for each device.

Use this screen to set the template. Click Slave> Template to display the following screen.

Default Template

Default Template: Enable Disable

When the default templates is enabled, the new registered slaves will apply the default template configuration.

Template Management

Template Index	Template Name	Template Class	Operation
1	DefaultTemplate	SW	<input type="button" value="Modify"/> <input type="button" value="Delete"/>

Label	Description
Pane 1: Slave	
Default Template	Select Enable option to upload the defaulttemplate configuration to new registeredslave.SelectDisable the option no template to upload to new registered slave.
Submit	Click Submit to active your request.
Refresh	Click this to update the data on this section
Help	Click this to go to the home page with the Technical Support information
Pane 2: Template management	
Template Index	An assigning unique numbers to unique Template
Template Name	An assigning unique neme to unique Template
Broadcast Restriction Enable	Same with the broadcast suppression. It prevents LAN interfaces from being disrupted by a broadcast storm. You can enable this feature by elect the Broadcast Suppression Enabled check box
Operation	Modify:A entry to edit the template

	Delete: Delete the selected template
Apply Template	Click Apply to save the changes in this section.
Refresh	Click this to update the data on this section
Help	Click this to go to the home page with the Technical Support information

In the list of template, click the 『Modify』 will open the template as blow screen.

Template [1]

Template configuration

Template index: (1~256)
 Template name: (Max length:32 characters)
 Enable broadcast restriction: Enable multicast restriction: Enable unknow unicast restriction:
 Restriction threshold (pps):
 Enable loopback check:

Port configuration

Port	Enable port	Speed&Duplex	VLAN MODE	PVID	Allowed Vlan	COS	Uplink maximum speed (0-102400)Kbps	DownLink maximum speed (0-102400)Kbps
1	<input checked="" type="checkbox"/>	<input type="text" value="auto"/> <input type="button" value="v"/>	<input type="text" value="Disabled"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
2	<input checked="" type="checkbox"/>	<input type="text" value="auto"/> <input type="button" value="v"/>	<input type="text" value="Disabled"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
3	<input checked="" type="checkbox"/>	<input type="text" value="auto"/> <input type="button" value="v"/>	<input type="text" value="Disabled"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
4	<input checked="" type="checkbox"/>	<input type="text" value="auto"/> <input type="button" value="v"/>	<input type="text" value="Disabled"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text" value="0"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

You can change the configuration of nest item.

Template configuration: Template name, broadcast restriction enable, loop detection enable.

Port configuration: Enable the port, mode, VLAN enable or disable, PVID, VLAN ID(When the VLAN mode is trunk), COS, Uplink Max Speed, Downlink Max Speed.

Note: The new template will upload the current template to the online slave automatically as you save the template. .

The 『Add New Template』 screen is the same with modify the template.

The system supports up to 253 templates.

2.3.4Auto Upgrade

Click 『Auto Upgrade』 to display the following screen.

Auto Upgrading Enable

PIB NVM

Auto Upgrading File Management

PIB	<input type="text" value="none"/>	<input type="button" value="Download"/>	<input type="button" value="Upload"/>	<input type="button" value="Delete"/>
NVM	<input type="text" value="none"/>	<input type="button" value="Download"/>	<input type="button" value="Upload"/>	<input type="button" value="Delete"/>

Auto Upgrading Status

ID	Slave MAC	Online Status	PIB & NVM Version	Auto Update Enable	Status	Force Upgrade
1	:72:4f	Online	7.1.0 & INT7400-MAC-7-1-7131-00-17-20131108-FINAL-QCA7411L-B	<input checked="" type="checkbox"/>	none	<input type="button" value="Upgrade"/>
2	:72:44	Online	7.1.31 & INT7400-MAC-7-1-7131-00-9-20130712-FINAL-B	<input checked="" type="checkbox"/>	ok	<input type="button" value="Upgrade"/>
4	:72:46	Online	7.1.31 & INT7400-MAC-7-1-7131-00-9-20130712-FINAL-B	<input checked="" type="checkbox"/>	ok	<input type="button" value="Upgrade"/>

You can setting the auto upgrade here. You can upgrade the PIB or NVM, or both. The <Auto Upgrading File Management> let you connect to the FTP to download the file usingfor upgrating. As you click the <Commit> the master will upgrade the slave.

2.3.5MAC Limit

Click 『MAC Limit』 to display the following screen.

MAC Limit

Global Mac Limit Parameter (0~65) :

Online Slave MAC Limit

ID	MAC	Status	Limit (0~65)	Operate
1	:72:44	Online	<input type="text" value="0"/>	<input type="button" value="Modify"/>
2	:72:46	Online	<input type="text" value="0"/>	<input type="button" value="Modify"/>
3	:72:4f	Online	<input type="text" value="0"/>	<input type="button" value="Modify"/>

"0" :disable, "65" :limit to 0.

Global Mac Limit is the value of MAC address limit for all the slave under this master. Range of the value is 0-65. For example, we set value to 35 and click the <Modify>, all slaves will reboot and the MAC Limit of each slave had be set to 35. The result display as below.

MAC Limit

Global Mac Limit Parameter (0~65) :

Online Slave MAC Limit

ID	MAC	Status	Limit (0~65)	Operate
1	:72:44	Online	<input type="text" value="35"/>	<input type="button" value="Modify"/>
2	:72:46	Online	<input type="text" value="35"/>	<input type="button" value="Modify"/>
3	:72:4f	Online	<input type="text" value="35"/>	<input type="button" value="Modify"/>

"0" :disable, "65" :limit to 0.

You also can change the MAC Limit value for each slave separate. For example we set the 72:44 MAC Limit to 38 as next windows.

MAC Limit

Global Mac Limit Parameter (0~65) :

Online Slave MAC Limit

ID	MAC	Status	Limit (0~65)	Operate
1	:72:44	Online	<input type="text" value="38"/>	<input type="button" value="Modify"/>
2	:72:46	Online	<input type="text" value="35"/>	<input type="button" value="Modify"/>
3	:72:4f	Online	<input type="text" value="35"/>	<input type="button" value="Modify"/>

"0" :disable, "65" :limit to 0.

The request is in process, please hold on... Remain **[7]** seconds

2.4WIFI Slave Management

As display below, you can find the Wifi slave by the Wifi MAC.

Online Slaves Number: 3

ID	Slave MAC	Wifi MAC	User Information	Attenuation (dB)	Upstream SHR (dB)	Downstream SHR (dB)	Upstream Speed (Mbps)	Downstream Speed (Mbps)	Operation
15	00:1a:69:7a:72:44	None		36	27.41	29.67	422	448	<input type="button" value="Reboot"/>
16	00:1a:69:7a:72:44	60:67:b3:42:00:19		36	27.20	28.46	420	434	<input type="button" value="Reboot"/>
17	00:1a:69:7a:72:46	None		36	29.15	27.88	442	428	<input type="button" value="Reboot"/>

Click on the Slave MAC can enter the windows of the slave configuration. There are tensubmenu.

- Slave Basic Information
- Slave Configuration Information
- Slave MAC Table
- Wifi Basic Configuration
- Wan Configuration
- Lan Configuration
- Static Route Configuration
- L2 Switch Configuration
- Virtual Server Configuration
- Wifi Management

2.4.1 Slave Basic Information

Click 『Slave Basic Information』 to display the following screen. You can get the Slave Information, such as Slave Type, Port Number 2, Software Version, User Information, Attenuation ,Signal Noise Ratio of upstreamanddownstream, Modulation and Speed.



Slave [.....:72:4f]

Slave Information

Slave Type	EoC-Slave-W		
Port Number	0		
Software Version	7.1.0 & INT7400-MAC-7-1-7131-00-17-20131108-FINAL-QCA7411L-B		
User Information	<input type="text"/>		
Attenuation	36 dB		
Signal Noise Ratio	Uplink 27.20 dB	Downlink 28.46 dB	
Modulation	Uplink 9.53 bits/carrier	Downlink 9.84 bits/carrier	
Speed	Uplink 420 Mbps	Downlink 434 Mbps	

Apply Refresh

Other Information

Reboot

2.4.2 Slave Configuration Information

This submenu please reference the chapters 2.3

2.4.3 Slave MAC Table

Click 『Slave MAC Table』 to display the MAC address of the client connected to the slave as following screen.



Slave [.....:72:4f]

MAC Table

The Number Of MAC: 2

MAC Detail

Index	MAC
1:72:50
2:00:19

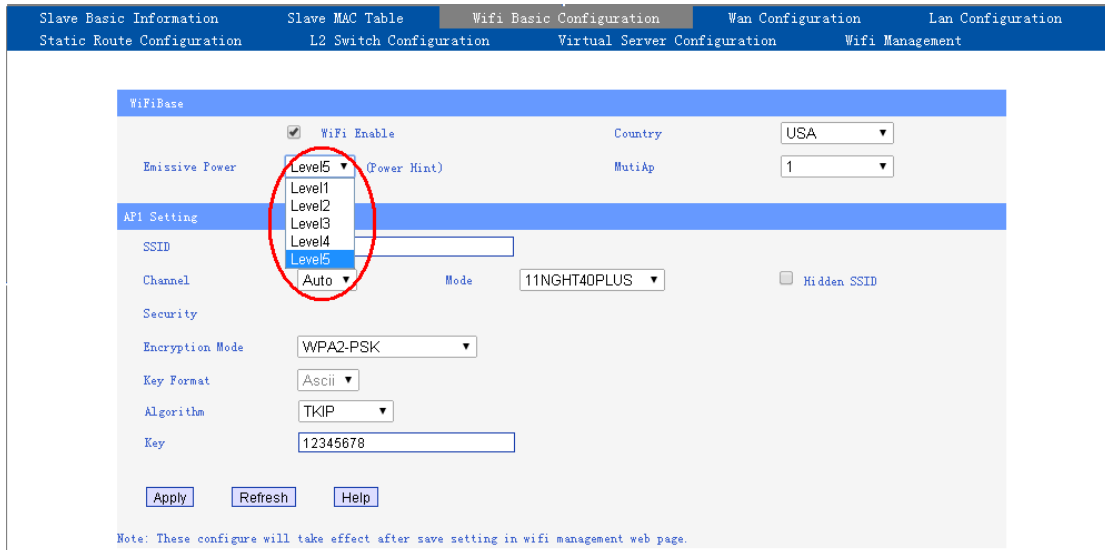
Refresh

2.4.4 Wifi Basic Configuration

The Wireless Basic Configuration screen lets you view or change the wireless network settings.

To view or change wireless settings:

1. Select “Wireless Basic Configuration” to display the following screen



2. Make any changes that are needed, and click Submit when done to save your settings.
 Note: The screen sections, settings, and procedures are explained in the following sections.
3. Set up and test your computers for wireless connectivity:
 - a. Use your wireless computer or device to join your network. When prompted, enter the network password.
 - b. From the wirelessly connected computer, make sure that you can access the Internet.

Wireless Settings Screen Fields

Label	Description
Enable WiFi	You can enable WiFi or not. Once the wireless feature is enable, the wireless device can transmit or receiver from slave, once the feature is disabled, no wireless device can transmit to or receive from your router.
Emissive Power	The power of Wifi transimtte, the greater the value the higer the power.
Name (SSID).	The SSID is also known as the wireless network name. Enter a 32-character (maximum) name in this field. This field is case-sensitive. The default SSID is randomly generated, and there is typically no need to change it. You are able to change the SSID here. If you use a wireless computer to change the wireless network name (SSID) or security options, you are disconnected when you click Apply. To avoid this problem, use a computer with a wired connection to access the EOC slave.
Country	The location where the EOC slave is used. It might not be legal to operate the slave in a region other than the regions listed.
Channel	The wireless channel used by the gateway: 1 through 13. Do not change the channel unless you experience interference (shown by lost connections or slow data transfers). If this happens, experiment with different channels to see which is the best.
Mode	Up to 145 Mbps is the default and allows 802.11n and 802.11g wireless

	<p>devices to join the network.</p>
Enable SSID Hidden	<p>This setting allows the EOC slave to not broadcast its SSID so that a wireless station can not display this wireless name (SSID) in its scanned network list. This check box is not selected by default. To turn off the SSID broadcast, clear the check box and click Apply.</p>
Encryption Mode	<p>A security option is the type of security protocol applied to your wireless network. The security protocol in force encrypts data transmissions and ensures that only trusted devices receive authorization to connect to your network. Wi-Fi Protected Access (WPA) has several options including pre-shared key (PSK) encryption.</p> <p>In the section, you can select the WPA option that you want.</p>

The AP number can set from 1 to 4.

For example as below. We set AP number is 2. Then we can find two SSID to use.

The screenshot shows the 'WiFi Basic Configuration' page. Under 'WiFiBase', 'WiFi Enable' is checked, 'Country' is 'USA', and 'MultiAp' is set to '2'. Under 'API Setting', 'SSID' is 'Cdata-4', 'Channel' is 'Auto', 'Mode' is '11NGHT40PLUS', 'Hidden SSID' is unchecked, 'Encryption Mode' is 'WPA2-PSK', 'Key Format' is 'Ascii', 'Algorithm' is 'TKIP', and 'Key' is '12345678'.

AP2 Setting

SSID:

Channel: Mode: Hidden SSID

Security

Encryption Mode:

Key Format:

Algorithm:

Key:

Note: These configure will take effect after save setting in wifi management web page.

2.4.5 Wan Configuration

You can configure the WAN business here. The slave can support four business.

Slave Basic Information Slave MAC Table Wifi Basic Configuration **Wan Configuration** Lan Configuration

Static Route Configuration L2 Switch Configuration Virtual Server Configuration Wifi Management

Wan1 Setting

Service Mode:

Connection Mode: VlanEnable VLAN ID: VlanPri:

Port Binding: LAN1 LAN2 LAN3 LAN4 SSID1 SSID2 SSID3 SSID4

Route Setting

ConnType:

DNS Server Config:

DNS 1:

DNS 2:

Wan2 Setting

Service Mode:

Wan3 Setting

Service Mode:

Wan4 Setting

Service Mode:

Note: These configure will take effect after save setting in wifi management web page.

Bridge Mode: If you use bridge mode, you must set VLAN. L2 frame will pass through to the LAN port bound to this WAN. The PC connected the LAN port can use PPPoE separately.

Wan1 Setting

Service Mode: ▾

Connection Mode: ▾ VlanEnable VLAN ID: VlanPri: ▾

Port Binding: LAN1 LAN2 LAN3 LAN4 SSID1 SSID2 SSID3 SSID4

Wan2 Setting

Service Mode: ▾

Wan3 Setting

Service Mode: ▾

Wan4 Setting

Service Mode: ▾

Note: These configure will take effect after save setting in wifi management web page.

Router Mode: You can set the WiFi to static IP, DHCP and PPPoE.

- **STATIC IP:** If the connection is “Ethernet Broadband, fixed IP address provided by ISP (Static IP)”, please input the IP Address, Sub-net Mask, Gateway and DNS server address provided by your ISP.

Wan1 Setting

Service Mode: ▾

Connection Mode: ▾ VlanEnable VLAN ID: VlanPri: ▾

Port Binding: LAN1 LAN2 LAN3 LAN4 SSID1 SSID2 SSID3 SSID4

Route Setting

ConnType: ▾

IPV4 Address:

Subnet Mask:

Default Gateway:

DNS Server Config: ▾

DNS 1:

DNS 2:

- **DHCP**

Wan1 Setting

Service Mode: ▾

Connection Mode: ▾ VlanEnable VLAN ID: VlanPri: ▾

Port Binding: LAN1 LAN2 LAN3 LAN4 SSID1 SSID2 SSID3 SSID4

Route Setting

ConnType: ▾

DNS Server Config: ▾

DNS 1:

DNS 2:

- **PPPoE:** If the connection type is “PPPoE”, please input the “User Name” and

“Password” provided by your ISP.

Wan1 Setting

Service Mode:

Connection Mode: VlanEnable VLAN ID: VlanPri:

Port Binding: LAN1 LAN2 LAN3 LAN4 SSID1 SSID2 SSID3 SSID4

Route Setting

ConnType:

Username:

Password:

DNS Server Config:

DNS 1:

DNS 2:

Next is a example of router mode and bridge mode mixed.
 IPTV STB connected to LAN1 and SSID2.VLAN ID 1512.
 LAN2, LAN3, LAN4 and SSID1 is for internet business.

Wan1 Setting

Service Mode:

Connection Mode: VlanEnable VLAN ID: VlanPri:

Port Binding: LAN1 LAN2 LAN3 LAN4 SSID1 SSID2 SSID3 SSID4

Wan2 Setting

Service Mode:

Connection Mode: VlanEnable VLAN ID: VlanPri:

Port Binding: LAN1 LAN2 LAN3 LAN4 SSID1 SSID2 SSID3 SSID4

Route Setting

ConnType:

Username:

Password:

DNS Server Config:

DNS 1:

DNS 2:

2.4.6 Lan Configuration

Slave Basic Information	Slave MAC Table	Wifi Basic Configuration	Wan Configuration	Lan Configuration
Static Route Configuration	L2 Switch Configuration	Virtual Server Configuration	Wifi Management	

Lan Ip And Port	
IP Address	<input type="text" value="192.168.10.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
DHCPV4 Server Setting	
<input checked="" type="checkbox"/> Enable DHCPV4 server	
IP Pool Address	<input type="text" value="192.168.10.2"/> to <input type="text" value="192.168.10.254"/>
from	<input type="text" value="192.168.10.254"/> <input type="button" value="Edit Reserved Addresses"/>
LeaseTime(Second)	<input type="text" value="3600"/>
<input type="button" value="Apply"/> <input type="button" value="Refresh"/> <input type="button" value="Help"/>	
<small>Note: These configure will take effect after save setting in wifi management web page.</small>	

This windows use to display LAN configuration information.

The IP address of the router in the LAN is used for WEB Management access, the factory default value is 192.168.10.1, you can change it according to your requirements.

For example, you can change the IP address of the router as 192.168.8.1 or other.

Note: If you change this IP address into a new IP address, then next time when you log in the router, you must use this new IP address to access the management interface of the router. And all the default gateway of the computer in the LAN should be set as the value of this new IP address.

Netmask: The default Sub-net Mask of this router in the LAN is 255.255.255.0

DHCP Server setting

★Tips: DHCP is the abbreviation of Dynamic Host Configuration Protocol which can assign IP address, Subnet Mask, Default Gateway of LAN Client on TCP/IP automatically.

1. DHCP Server: The DHCP function will go into effect if you select “Enable” as the figure beside.

2. IP Pool Starting Address: The starting IP address which DHCP Server automatically starts.

3. IP Pool Ending Address: The ending IP address which DHCP Server automatically ends.

The IP address that DHCP Server assigns to the requested client should be within the IP Pool. e.g., when you configure IP address pool from10 to 30, the IP Address which can be obtained by the clients would be between 10 and 30

4. Lease Time: You can set the time period during which the DHCP allows the assigned IP addresses to be used by the clients.

By setting a suitable lease time, you would enable the DHCP to take better advantage of the IP addresses which are not used again.

For example, you can set the lease time as one hour, and then the DHCP server would take back the IP addresses per an hour.

Slave Basic Information Slave MAC Table Wifi Basic Configuration Wan Configuration Lan Configuration
 Static Route Configuration L2 Switch Configuration Virtual Server Configuration Wifi Management

Lan Ip And Port

IP Address:

Subnet Mask:

DHCPV4 Server Setting

Enable DHCPV4 server

IP Pool Address from: to: [Edit Reserved Addresses](#)

LeaseLine(Second):

Note: These configure will take effect after save setting in wifi management web page.

2.4.7 Static Route Configuration

You can set the static route here.

Slave Basic Information Slave MAC Table Wifi Basic Configuration Wan Configuration Lan Configuration
 Static Route Configuration L2 Switch Configuration Virtual Server Configuration Wifi Management

Static Routing Table

Destination IP:

Subnet Mask:

Gateway:

Note: These configure will take effect after save setting in wifi management web page.

2.4.8 L2 Switch Configuration

You can set the Rate Limit and VLN tagged or untagged here.

Slave Basic Information Slave MAC Table Wifi Basic Configuration Wan Configuration Lan Configuration
 Static Route Configuration L2 Switch Configuration Virtual Server Configuration Wifi Management

Port Setting

	LAN1	LAN2	LAN3	LAN4
Upstream Rate Limit	<input type="text" value="16Mbps"/>	<input type="text" value="Disable"/>	<input type="text" value="Disable"/>	<input type="text" value="Disable"/>
Downstream Rate Limit	<input type="text" value="64Mbps"/>	<input type="text" value="Disable"/>	<input type="text" value="Disable"/>	<input type="text" value="Disable"/>
Egress Mode	<input type="text" value="unchange"/>	<input type="text" value="untag"/>	<input type="text" value="untag"/>	<input type="text" value="untag"/>

Wifi Port

	SSID2	SSID3	SSID4
Upstream Rate Limit	<input type="text" value="Disable"/>	<input type="text" value="Disable"/>	<input type="text" value="Disable"/>
Downstream Rate Limit	<input type="text" value="Disable"/>	<input type="text" value="Disable"/>	<input type="text" value="Disable"/>

Note: These configure will take effect after save setting in wifi management web page.

2.4.9 Virtual Server Configuration

Virtual server can configure in next windows.

Slave Basic Information	Slave MAC Table	Wifi Basic Configuration	Wan Configuration	Lan Configuration
Static Route Configuration	L2 Switch Configuration	Virtual Server Configuration	Wifi Management	

Virtual Server List						
Service Name	Local IP	Protocol	Ex Port	In Port	Port Numbe	
<input type="text"/>	<input type="text" value="192.168.2.231"/>	ALL ▾	<input type="text" value="6000"/>	<input type="text" value="7000"/>	<input type="text" value="1"/>	<input type="button" value="Add"/>
<input type="button" value="Apply"/> <input type="button" value="Refresh"/> <input type="button" value="Help"/>						

Note: These configure will take effect after save setting in wifi management web page.

2.4.10 Wifi Management

This windows is for user management, configuration backup and restore the default factory configuration.

Slave Basic Information	Slave MAC Table	Wifi Basic Configuration	Wan Configuration	Lan Configuration
Static Route Configuration	L2 Switch Configuration	Virtual Server Configuration	Wifi Management	

Cli User Setting	
User	<input type="text" value="admin"/>
Common Password	<input type="password" value="****"/>
Super Password	<input type="password" value="****"/>
<input type="button" value="Apply"/>	

Web User Setting	
User	<input type="text" value="admin"/>
Password	<input type="password" value="****"/>
<input type="button" value="Apply"/>	

Saving Setting	
Click submit button to save the current settings to flash	
<input type="button" value="Saving Setting"/>	

Factory Setting	
Click button to restore the factory settings of the home gateway	
<input type="button" value="Reset Factory Setting"/>	

Reboot System	
Click submit button to reboot the wifi system	
<input type="button" value="Reboot"/>	
<input type="button" value="Refresh"/> <input type="button" value="Help"/>	

Note: These configure will take effect after save setting in wifi management web page.

2.5RF

Click the [RF Info] displays the following screen:

Master Rf Information						
Master MAC	Maximum Slave QTY	RF Output Level	Starting Frequency	Ending Frequency	Operation	
:09:89	253	115 dB μ V (90~115)	7.6 MHz (7.6~87.5)	67.5 MHz (7.6~87.5)	Modify	

Refresh

Online Slave Rf Information						
ID	Slave MAC	Online Status	RF Output Level	Starting Frequency	Ending Frequency	Operation
1	:72:44	Online	115 dB μ V	7.6 MHz	67.5 MHz	Modify
2	:72:46	Online	115 dB μ V	7.6 MHz	67.5 MHz	Modify
3	:72:4f	Online	115 dB μ V	7.6 MHz	67.5 MHz	Modify

Refresh

“--” indicate that the slave does not support RF configuration function, or configuration query failed.

The maximum slave quantity, RF output level, frequency will show in this screen. You also can set the RF output level of the master.

2.6 NETWORK

The NETWORK menu provide the entry of status of interface, configuring network parameter, VLAN management, broadcast suppression.

2.6.1 Status

The status information allows you to view status information, including MAC address of WAN and LAN interface, received data and transmitted data in Bytes, received frames and transmitted frames, Error frames, dropped frames, and so on.

The status information for the EOC Master is displayed as the following screen.

Network interface						
Interface	MAC Address		Bytes	Frames	Error Frames	Discarded Frames
eth0	:10:60	Tx	1459092	5593	0	0
		Rx	1366480	4990	0	0
eth0.4093	:10:60	Tx	2642	79	0	0
		Rx	1794	39	0	0
eth1	:00:00	Tx	0	0	0	0
		Rx	0	0	0	0

Refresh

2.6.2 Config

Click the 『Config』 displays the following screen:

Network Information	
MAC address:	E0:67:B3:22:10:60
Connect type:	Static IP
IP address:	192.168.1.6
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1
<input type="button" value="Modify"/>	
<small>If you modify the configuration on this pages, the configuration will be saved, but it will have no effect on the device until the device is rebooted.</small>	

In 『Network Information』, you can configure the Connect type, IP address, subnet mask, default gateway.

Note: Changing the IP address, subnet mask, default gateway perhaps lead to failure of visiting the WEB user interface.

2.6.3 VLAN

Click 『VLAN』 to display following screen.

Management VLAN Information	
VLAN ID:	0 <input type="button" value="Modify"/>
VLAN Status:	VLAN[0]Has been set to inactivate mode <input type="button" value="Active"/>
<input type="button" value="Refresh"/> <input type="button" value="Help"/>	

You can configure the VLAN of EOC Master. Click the modify button after you enter the VLAN ID to active the VLAN.

Note: If you active the VLAN of EOC Master, you should also do some configuration to make the link from the master to the management PC is ok.

2.6.4 SNID

Click 『SNID』 to display following screen.

Master SNID Information	
SNID:	5 (0:auto 1-15:static) <input type="button" value="Modify"/>
<input type="button" value="Refresh"/>	

If there are several masters placed nearby, you can set the different SNID for master to avoid the interference between the mast.

2.6.5 Filter

Click 『Filter』 to display following screen.

Broadcast limiting

Broadcast limiting enabled:

Broadcast limit threshold: (1-255)

Multicast limiting

Multicast limiting enabled:

Multicast limit threshold: (1-255)

You can enable the broadcast and multicast limiting function and setting the threshold parameter.

2.6.6 IGMP

Click 『IgmP』 to display following screen to set the value of query interval and the IGMP Vlan.

IGMP Query Proxy Information

Query Interval: s
Stepsize:10s

Igmp Vlan: Enable Vlan Vlan Id

Igmp Status: IgmP[60]Has been set to inactivate mode

2.7 SERVICE

Click Network>Service to System information screen.

The windows will show the service of the system provided.

Now only support the SNMP service turning of or off.

System Information		
Service Type	Running	OFF
NETWORK	<input type="radio"/>	<input type="radio"/>
BRIDGE	<input type="radio"/>	<input type="radio"/>
FTP	<input type="radio"/>	<input type="radio"/>
TFTP	<input type="radio"/>	<input type="radio"/>
HTTP	<input type="radio"/>	<input type="radio"/>
TELNET	<input type="radio"/>	<input type="radio"/>
SNMP	<input type="radio"/>	<input checked="" type="radio"/>
SSH	<input type="radio"/>	<input checked="" type="radio"/>

2.8 SYSTEM

The SYSTEM menu provide the entry of Infomation、Running Status、Slave Type、IP Access Control、System Time、System Log、Account、Reboot、Factory、Upgrade、Backup Restore.

2.8.1 Information

The system information allows you to view system information, including chip model, device type, software version, hardware version, serial number, SYS-MAC address, EOC-MAC address, amount of online slave , and so on.

System Information	
Chip Model:	RTL8198
Device Type:	EoC Master
Software Version:	V2.4.0m
PIB&NV Version:	7.1.0 & INT7400-MAC-7-1-7131-00-17-20131108-FINAL-AR7410-D
Hardware Version:	V5.0
Serial Number:	BB1407-28160414
SYS-MAC:	e0:67:b3:22:10:60
EoC-MAC:	e0:c8:6a:20:09:89
Online Slave Number:	3
<input type="button" value="Refresh"/>	

Device Information	
Name:	<input type="text" value="EoC System"/>
Contact:	<input type="text" value="Contact"/>
Location:	<input type="text" value="Location"/>
<input type="button" value="Refresh"/> <input type="button" value="Modify"/>	

2.8.2 RunningStatus

Click System Status on the main menu.

Result: The system and status information is displayed

System Running Status	
Online Time:	0 days0 hours 30 minutes 59 seconds
Memory Size(kB):	30688
Remaining Memory(kB):	11648
Storage Space(kB):	2560
Remaining Space(kB):	2356
Space Utilization:	8%

The System Running Status shows the information, including online time, memory size, remaining memory, storage space, remaining space, space utilization.

2.8.3 SlaveType

Click SYSTEM>SlaveType to slave type management screen:

Slave Type Management									
ID	Slave Class	Slave Type	Template Correlation	User HFID	OUI	Port Number	Port	Mapping Port	Operating
1	SW	EoC-Slave-2	1	Intellon Enabled Produ	any	2	1	1	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
							2	2	
2	SW	EoC-Slave-2	1	A7402V01	any	2	1	1	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
							2	2	
3	SW	EoC-Slave-4	1	A7404V01	any	4	1	1	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
							2	2	
							3	3	
							4	4	
4	WIFI	EoC-Slave-W	0	A7414V01	any	0	None	None	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
5	SW+WIFI	EoC-Slave-EW	0	A7424V01	any	2	1	1	<input type="button" value="Modify"/> <input type="button" value="Delete"/>
							2	2	

A list of slave type shown as above screen.
 You can modify and delete the existing slave type.
 And click New Type to add a new slave type.

New Type

Slave Class: SW+WIFI

Slave Type:

Template Correlation: 0

UserHFID:

OUI: any

Port Number: 4

The Mapping Of Port 1: 1

The Mapping Of Port 2: 2

The Mapping Of Port 3: 3

The Mapping Of Port 4: 4

Submit Reset Return

Click Submit button to active the new slave type, the new one will display in the Slave Type Management list.

2.8.4 IP Access Control

Click 『IP Access Control』 to display following screen.

IP Access Control

Enable Disable

Commit Refresh

The List Of IP Address To Allowable Access

ID	Begin IP	End IP	Subnet Mask	Operation

New Refresh

You can set a IP list for access the master.

New Certification Rules

Begin IP: 192.168.1.1

End IP: 192.168.1.10

Subnet Mask: 255.255.255.0

Commit Reset Back

2.8.5 System Time

Click 『System Time』 to display following screen.

2.8.7 Account

Click SYSTEM>Account to display Modify Account screen:

Modify Account	
Original account:	<input type="text"/>
Original password:	<input type="text"/>
New account:	<input type="text"/>
New password:	<input type="text"/>
Repeat new password	<input type="text"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/> <input type="button" value="Help"/>	

You can set new user name and password here.

2.8.8 Reboot

Click SYSTEM>Reboot to display the Reboot System and Reboot EOC Chip screen:

Reboot System
Click this button to reboot the system.
<input type="button" value="Reboot System"/>
Reboot Eoc Chip
Click this button to reboot the eoc chip
<input type="button" value="Reboot Eoc Chip"/>

After click the Reboot System button the system will countdown and display the following screen:

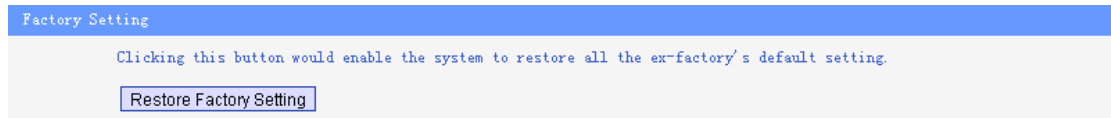
Reboot System
Click this button to reboot the system.
Instruction execution, Please wait... 【32】 seconds remaining
<input type="button" value="Reboot System"/>

After click the Reboot EOC Chip button the system will countdown and display the following screen:

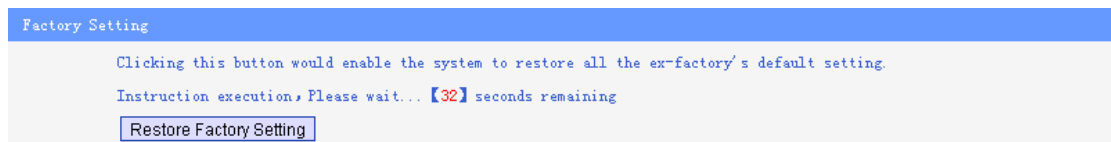
Reboot Eoc Chip
Click this button to reboot the eoc chip
Instruction execution, Please wait... 【10】 seconds remaining
<input type="button" value="Reboot Eoc Chip"/>

2.8.9 Factory Set

Click SYSTEM>Factory to display fellow screen:

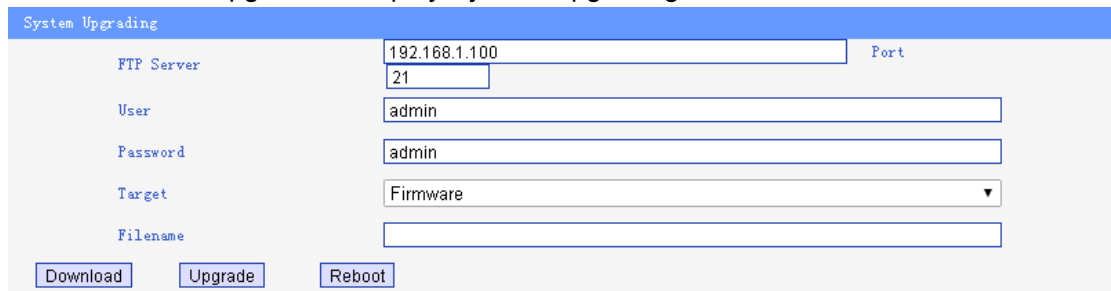


Click the Restore Factory Setting to restore factory settings, all configuration will be set to parameter assign by manufacturer.



2.8.10 Upgrade

Click SYSTEM>Upgrade to display System Upgrading screen:



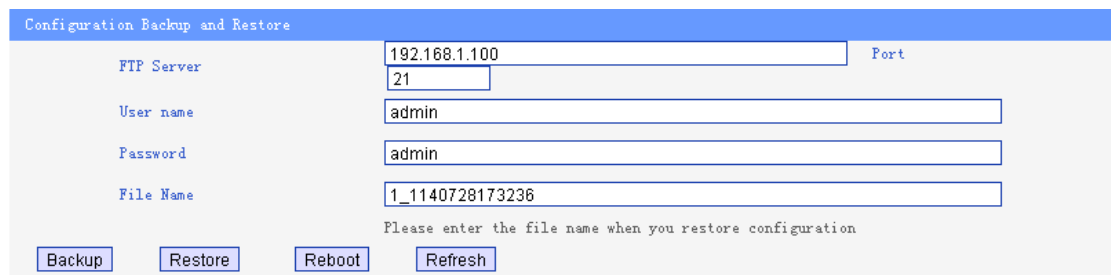
The device can upgrade from FTP server.

Do NOT turn off the device during the updating process, as it may corrupt the firmware and make the selected device unusable.

Please contact with us to get the latest version.

2.8.11 Backup Restore

Click 『Backup Restore』 to display the following screen.



Click Back button to save the current configuration to server.

2.9 EXIT

Select EXIT to close the EOC Manager screen and return to LOGIN screen.

