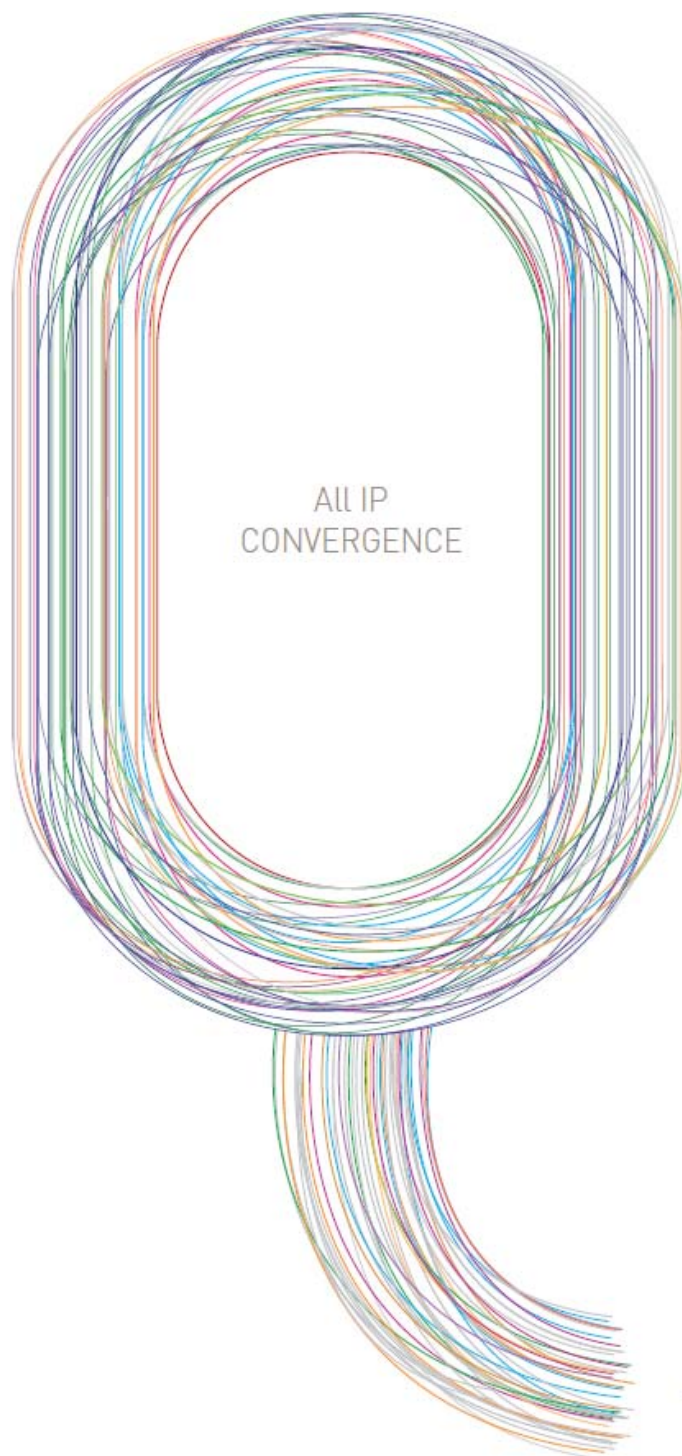


# C504W

■ WEB User Guide



ubiQuoss

# C504W

■ WEB User Guide



ubiQuoss

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# Preface

This preface provides the overview of C504W WEB User guide, which describes guide conventions, and lists other publications that may be useful.

## Introduction

This C504W WEB User guide describes how to use it.

## Related Documents

For additional information on this equipment, refer to the following manuals.

Manual	Contents
<i>Installation Guide</i>	Hardware installation Initial operating environment configuration Trouble Shooting
<i>WEB User Guide</i>	Operating configuration for services System operation, administration



### Notice

You can download or request the latest documents and information on the products of ubiQuoss Inc. including C504W from the website (<http://www.ubiQuoss.com>).

## Description of Symbols

This guide uses the following icons and fonts to indicate special messages for the reader.



Note

Presents the useful contents related to the user guide, the references and data related to the product use, etc.



Caution

Describes the situation that data loss and incorrect product operation can occur, and provides the proper actions to take in the situation.



Warning

Describes the situation that product damage and the user's injury can occur, and provides the proper actions to take in the situation.



Warning

Warning: Optical Terminal

Do not look at the optical terminal directly. It could cause serious damage to your eyes.



Warning

Do not disassemble or assemble the product.

The user must not remove/attach the product cover or disassemble/assemble the product when the power is on. Otherwise, it can cause personal injury or property loss.

## Table of Content

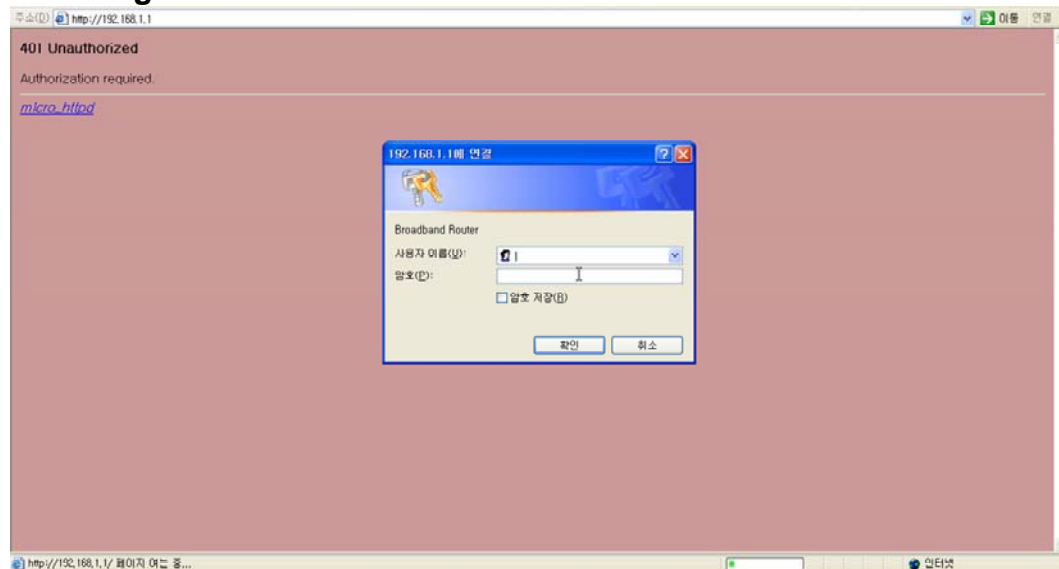
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## Setting via Web

### WEB Login Screen



1. Connect C504W LAN port with PC LAN port.
2. Enter IP address 192.168.1.1 to address bar of WEB browser.
3. The default User ID and Password are as follows;

**User ID : admin**

**Password : adminad**

## Device Info

### Summary

This screen shows the system general status information.

주소(D) http://192.168.1.1/

**ubiQuoss**  
www.ubiquoss.com

Board ID : c504w  
S/W Version : 4.10L.02#001

**Device Info**

- Summary
- WAN
- Statistics
- Route
- ARP
- DHCP
- Advanced Setup
- Wireless
- Diagnostics
- Management

Board ID:	c504w
Symmetric CPU Threads:	2
Build Timestamp:	110719_1027
Software Version:	4.10L.02#001
Bootloader (CFE) Version:	1.0.37-110.11
Wireless Driver Version:	5.100.123.0.cpe4.10L
Uptime:	0D 0H 44M 48S

This information reflects the current status of your WAN connection.

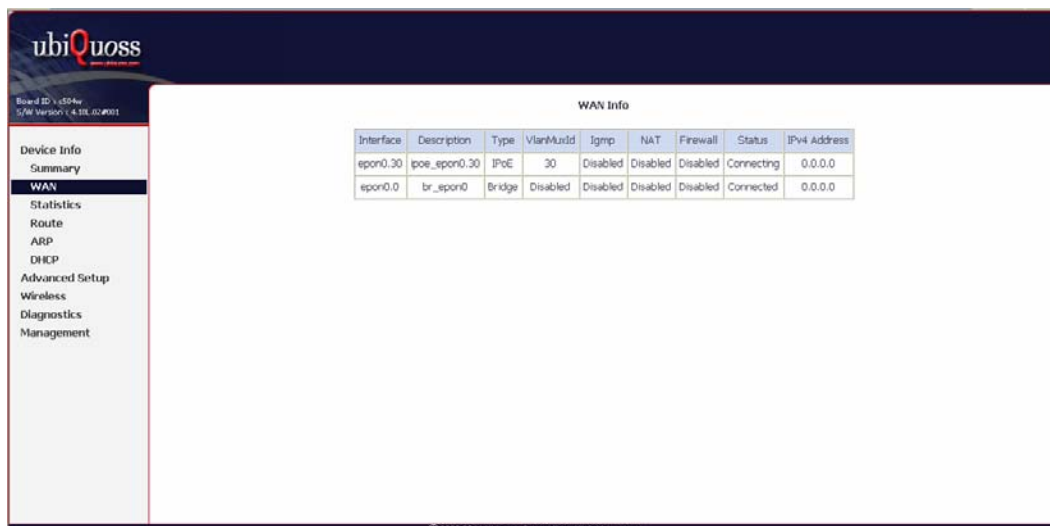
LAN IPv4 Address:	192.168.1.1
Default Gateway:	
Primary DNS Server:	0.0.0.0
Secondary DNS Server:	0.0.0.0

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## WAN

It shows WAN Interface information like as WAN interface name, type, VLAN ID, IGMP/ NAT/Firewall status/ Connection status, assigned IP Address.



Interface	Description	Type	VlanMidd	Igmp	NAT	Firewall	Status	IPv4 Address
epon0.30	poe_epon0.30	IPoE	30	Disabled	Disabled	Disabled	Connecting	0.0.0.0
epon0.0	br_epon0	Bridge	Disabled	Disabled	Disabled	Disabled	Connected	0.0.0.0

## Statistics

### LAN

It shows total packet size, normal packet numbers, error packet numbers, and drop packet numbers sent or received via LAN interfaces. If you click [Reset Statistics] button, it is initialized.



Interface	Received				Transmitted			
	Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
eth0	0	0	0	0	0	0	0	0
eth1	0	0	0	0	0	0	0	0
eth2	0	0	0	0	0	0	0	0
eth3	203897	1489	0	0	1751597	5119	0	0
wl0	30153	201	0	0	269907	3163	0	0
wl0.1	0	0	0	0	0	0	0	0
wl0.2	0	0	0	0	0	0	0	0
wl0.3	0	0	0	0	0	0	0	0

Reset Statistics

### WAN Service

WAN service shows total Packet size, normal packet number, Error Packet number, Drop Packet number sent or received via WAN Interface.

If you select [Reset Statistics] Button, it initialize the counter of WAN interfaces.

**ubiQuoss**  
Board ID: v504w  
S/W Version: v4.10.02#001

**Device Info**  
[Summary](#)  
[WAN](#)  
[Statistics](#)  
[LAN](#)  
**WAN Service**  
[Route](#)  
[ARP](#)  
[DHCP](#)  
[Advanced Setup](#)  
[Wireless](#)  
[Diagnostics](#)  
[Management](#)

### Statistics -- WAN

Interface	Description	Received			Transmitted		
		Bytes	Pkts	Errs/Drops	Bytes	Pkts	Errs/Drops
epor0.30	ipoe_epor0.30	0	0	0	200044	678	0
epor0.0	br_epor0	158974	2945	0	44683	295	0

[Reset Statistics](#)

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## Route

It shows Routing Table information set on each interface.

**ubiQuoss**  
Board ID: v504w  
S/W Version: v4.10.02#001

**Device Info**  
[Summary](#)  
[WAN](#)  
[Statistics](#)  
**Route**  
[ARP](#)  
[DHCP](#)  
[Advanced Setup](#)  
[Wireless](#)  
[Diagnostics](#)  
[Management](#)

### Device Info -- Route

Flags: U - up, I - reject, G - gateway, H - host, R - reinstate  
D - dynamic (redirect), M - modified (redirect).

Destination	Gateway	Subnet Mask	Flag	Metric	Service	Interface
192.168.1.0	0.0.0.0	255.255.255.0	U	0		br0

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## ARP

It shows the information of ARP Table in the system.



The screenshot displays the ubiQuoss web interface. On the left is a navigation menu with options: Device Info, Summary, WAN, Statistics, Route (highlighted), ARP, DHCP, Advanced Setup, Wireless, Diagnostics, and Management. The main content area is titled 'Device Info -- Route'. It includes a legend for flags: U - up, I - reject, G - gateway, H - host, R - reinstate, D - dynamic (redirect), and M - modified (redirect). Below the legend is a table with the following data:

Destination	Gateway	Subnet Mask	Flag	Metric	Service	Interface
192.168.1.0	0.0.0.0	255.255.255.0	U	0		br0

At the bottom of the interface, a copyright notice reads: © 2000-2011 Ubiquiti Corporation. All rights reserved.

## DHCP

It shows IP address assigned from DHCP Server.

ubiQuoss

Board ID: x1504w  
F/W Version: 4.3.0.02#091

Device Info  
Summary  
WAN  
Statistics  
**Route**  
ARP  
DHCP  
Advanced Setup  
Wireless  
Diagnostics  
Management

Device Info -- Route

Flags: U - up, I - reject, G - gateway, H - host, R - reinstate  
D - dynamic (redirect), M - modified (redirect).

Destination	Gateway	Subnet Mask	Flag	Metric	Service	Interface
192.168.1.0	0.0.0.0	255.255.255.0	U	0		br0

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## Advanced Setup

Advanced Setup menu has various sub menus to set and manage about Module / Utility. The GUI menus are different according to authorization.

### WAN Service

You can create and manage the interface with WAN Service menu

The following screen shows the existing WAN interfaces information.

Board ID : C504W  
S/W Version : 4.10L.02#001

Device Info  
Advanced Setup  
WAN Service  
LAN  
NAT  
Security  
Parental Control  
Quality of Service  
Routing  
DNS  
DNS Proxy  
Interface Grouping  
Power Management  
Multicast  
Vlan Config  
Wireless  
Diagnostics  
Management

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan8021p	VlanMuxId	Icmp	NAT	Firewall	Remove	Edit
epon0.30	poe_epon0.30	IPoE	0	30	Disabled	Disabled	Disabled	<input type="checkbox"/>	Edit
epon0.0	br_epon0	Bridge	N/A	N/A	Disabled	Disabled	Disabled	<input type="checkbox"/>	Edit

Add Remove

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In case of the initial status, there are two kinds of WAN Interfaces. One is Route mode that VLAN ID 30 is set. The other is Bridge mode that VLAN ID does not exist.

To add WAN Interface, select [Add] button.

Board ID : 963623epon  
S/W Version : 4.10L.02#001

Device Info  
Advanced Setup  
WAN Service  
LAN  
Quality of Service  
Routing  
DNS  
Vlan Config  
DNS Proxy  
Power Management  
Wireless  
Diagnostics  
Management

WAN Service Interface Configuration

Select a layer 2 interface for this service

epon0/epon0

Back Next

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Enter WAN Interface type and description.

If you use VLAN TAG and Priority, Enter a number in the relevant range to Textbox.

In case that you do not use it, Enter -1 value to each Textbox.

In case assigning IP via DHCP Server to WAN Interface, select “Obtain an IP address automatically”.

In case using DHCP Option, enter the value. In case not using it, maintain it with blank.

In case assigning static IP to WAN Interface, select “Use the following static IP address”.

Enter IP / Subnet mask / gateway IP address.

If you run NAT/Firewall / IGMP Multicast on relevant WAN Interface, check at the checkbox.

The screenshot shows the 'Network Address Translation Settings' page in the ubiQuoss web interface. The left sidebar contains a menu with options: Device Info, Advanced Setup, WAN Service, LAN, Quality of Service, Routing, DNS, Vlan Config, DNS Proxy, Power Management, Wireless, Diagnostics, and Management. The main content area has the title 'Network Address Translation Settings' and a description: 'Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your Local Area Network (LAN)'. Below this, there are three checkboxes: 'Enable NAT', 'Enable Firewall', and 'Enable IGMP Multicast'. At the bottom right of the main content area, there are 'Back' and 'Next' buttons. The footer of the page reads '© 2000-2011 Ubiquoss Corporation. All rights reserved.'

Set Default Gateway to use on WAN Interface.

The screenshot shows the 'Routing -- Default Gateway' page in the ubiQuoss web interface. The left sidebar is the same as the previous screenshot. The main content area has the title 'Routing -- Default Gateway' and a description: 'Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.' Below this, there are two columns: 'Selected Default Gateway Interfaces' and 'Available Routed WAN Interfaces'. The 'Selected' column contains a box with 'epon0.30'. The 'Available' column contains a box with 'epon0.4095'. Between the two columns are two buttons: '->' and '<-' for moving interfaces. At the bottom right of the main content area, there are 'Back' and 'Next' buttons. The footer of the page reads '© 2000-2011 Ubiquoss Corporation. All rights reserved.'

Set DNS Server Interface. In case that the running DNS Servers exist, select "Use the following Static DNS IP address". Enter DNS Server IP Address.

**ubiQuoss**

Board ID: 963629pon  
SW Version: 4.10L02#001

**DNS Server Configuration**

Select DNS Server Interface from available WAN interfaces OR enter static DNS server IP addresses for the system. In ATM mode, if only a single PVC with IPoA or static IPoE protocol is configured, Static DNS server IP addresses must be entered.  
**DNS Server Interfaces** can have multiple WAN interfaces served as system dns servers but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

☒ Select DNS Server Interface from available WAN interfaces:

Selected DNS Server Interfaces: Available WAN Interfaces: epon0.4095

☐ Use the following Static DNS IP address:

Primary DNS server: 166.126.63.1  
 Secondary DNS server:

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It shows the summary of the WAN Interface setting. In case of being set exactly, finish [Apply/Save] button.

**ubiQuoss**

Board ID: 963629pon  
SW Version: 4.10L02#001

**WAN Setup - Summary**

Make sure that the settings below match the settings provided by your ISP.

Connection Type:	IPoE
NAT:	Disabled
Full Cone NAT:	Disabled
Firewall:	Disabled
ICMP Multicast:	Disabled
Quality Of Service:	Disabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

Back Apply/Save

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To delete existing WAN Interface, click [Remove] button.

To change settings about existing Wan Interface, click [Edit] button.



## LAN

It sets Gateway IP Address and Subnet mask about Lan Interface in the system.

You can assign different IP Address per Group. In case that the relevant Group is WAN Interface running as Route mode, you can enable DHCP server. If you click [Add Entries], it can assign static IP at specific Mac address. In case that the relevant Group is WAN interface running as Bridge mode, It does not show DHCP Server enabling part, then It is assigned from DHCP server of Network connected with Wan Interface.

The screenshot displays the 'Local Area Network (LAN) Setup' page in the ubiQuoss web interface. The sidebar on the left contains the following menu items: Device Info, Advanced Setup, WAN Service, LAN, NAT, Security, Parental Control, Quality of Service, Routing, DNS, DNS Proxy, Interface Grouping, Power Management, Multicast, Vlan Config, Wireless, Diagnostics, and Management. The main content area is titled 'Local Area Network (LAN) Setup' and includes the instruction: 'Configure the Broadband Router IP Address and Subnet Mask for LAN interface. GroupName: Default'. The configuration fields are as follows: IP Address (192.168.1.1), Subnet Mask (255.255.255.0), and a checkbox for 'Enable IGMP Snooping'. Below these, there are radio buttons for 'Disable DHCP Server' and 'Enable DHCP Server' (which is selected). The DHCP settings include Start IP Address (192.168.1.2), End IP Address (192.168.1.254), and Leased Time (hour) (24). A 'Static IP Lease List' section is also present, with a note that a maximum of 32 entries can be configured. It includes a table with columns for MAC Address, IP Address, and a Remove button. At the bottom of the table are 'Add Entries' and 'Remove Entries' buttons. The footer of the page indicates '© 2000-2011 Ubiquiti Corporation. All rights reserved.'



Select the service name, and enter the server IP address and click [Apply/Save] to forward IP packets for this service to the specified server.



## Note

The “Internal Port End” cannot be modified directly. Normally, it is set to the same value as “External Port End”. However, if you modify “Internal Port Start”, then “Internal Port End” will be set to the same value as “Internal Port Start” Remaining number of entries that can be configured:  
32

ubiQuoss  
Board ID: C504W  
SW Version: v.4.10.02.001

NAT -- Virtual Servers

Select the service name, and enter the server IP address and click "Apply/Save" to forward IP packets for this service to the specified server. NOTE: The "Internal Port End" cannot be modified directly. Normally, it is set to the same value as "External Port End". However, if you modify "Internal Port Start", then "Internal Port End" will be set to the same value as "Internal Port Start".  
Remaining number of entries that can be configured: 32

Use Interface:

Service Name:

☒ Select a Service:

☐ Custom Service:

Server IP Address:

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		

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## Port Triggering

In case that Firewall is set on WAN Interface, it sets a rule to forward the packets to external from LAN that specific application is running via TCP / UDP Port.

**ubiQuoss**  
www.ubiquiti.com

Board ID: v504w  
S/W Version: v4.10L.02.001

**Device Info**  
Advanced Setup  
WAN Service  
LAN  
NAT  
Virtual Servers  
**Port Triggering**  
DMZ Host  
Security  
Parental Control  
Quality of Service  
Routing  
DNS  
DNS Proxy  
Interface Grouping  
Power Management  
Multicast  
Vlan Config  
Wireless  
Diagnostics  
Management

**NAT -- Port Triggering Setup**

Some applications require that specific ports in the Router's firewall be opened for access by the remote parties. Port Trigger dynamically opens up the 'Open Ports' in the firewall when an application on the LAN initiates a TCP/UDP connection to a remote party using the 'Triggering Ports'. The Router allows the remote party from the WAN side to establish new connections back to the application on the LAN side using the 'Open Ports'. A maximum 32 entries can be configured.

Application Name	Trigger		Open		WAN Interface	Remove
	Protocol	Port Range Start End	Protocol	Port Range Start End		

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Some applications such as games, video conferencing, remote access applications and others require that specific ports in the C504W's firewall be opened for access by the applications. You can configure the port settings from this screen by selecting an existing application or creating your own (Custom application) and click [Save/Apply] to add it.

The relevant rule is configured maximum 32 numbers.

ubiQuoss

Board ID: C504W  
F/W Version: 4.10.0.001

Device Info  
Advanced Setup  
WAN Service  
LAN  
NAT  
Virtual Servers  
Port Triggering  
DMZ Host  
Security  
Parental Control  
Quality of Service  
Routing  
DNS  
DNS Proxy  
Interface Grouping  
Power Management  
Multicast  
Vlan Config  
Wireless  
Diagnostics  
Management

### NAT - Port Triggering

Some applications such as games, video conferencing, remote access applications and others require that specific ports in the Router's firewall be opened for access by the applications. You can configure the port settings from this screen by selecting an existing application or creating your own (Custom application) and click "Save/Apply" to add it.

Remaining number of entries that can be configured: 32

Use Interface:

Application Name:

☒ Select an application:

☐ Custom application:

Trigger Port Start	Trigger Port End	Trigger Protocol	Open Port Start	Open Port End	Open Protocol
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP
		TCP			TCP

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## Security

You can set filter about traffic sent or received via WAN/LAN Interface.

### IP Filtering - Outgoing

By default, all outgoing IP traffic from LAN is allowed, but some IP traffic can be BLOCKED by setting up filters.

To add or remove Filter, click [Add/Remove] button.

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Board ID: x4504w  
SW Version: v4.3.0.024901

Device Info  
Advanced Setup  
WAN Service  
LAN  
NAT  
Security  
IP Filtering  
Outgoing  
Incoming  
MAC Filtering  
Parental Control  
Quality of Service  
Routing  
DNS  
DNS Proxy  
Interface Grouping  
Power Management  
Multicast  
Vlan Config  
Wireless  
Diagnostics

### Outgoing IP Filtering Setup

By default, all outgoing IP traffic from LAN is allowed, but some IP traffic can be **BLOCKED** by setting up filters.

Choose Add or Remove to configure outgoing IP filters.

Filter Name	IP Version	Protocol	SrcIP/PrefLength	SrcPort	DstIP/PrefLength	DstPort	Remove
<div> Add Remove </div>							

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You should enter at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect. Click [Apply/Save] to save and activate the filter.

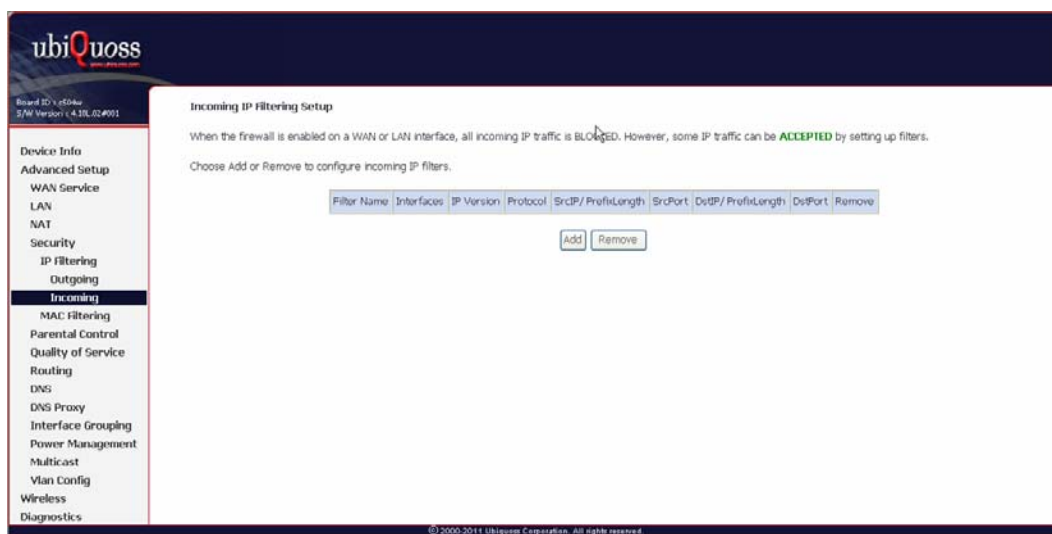
## IP Filtering – Incoming

When a Firewall is running on the WAN Interface or LAN Interface, All received traffic is not forwarded basically. (In case that the specific rule is not applied, for example DMZ and etc.)

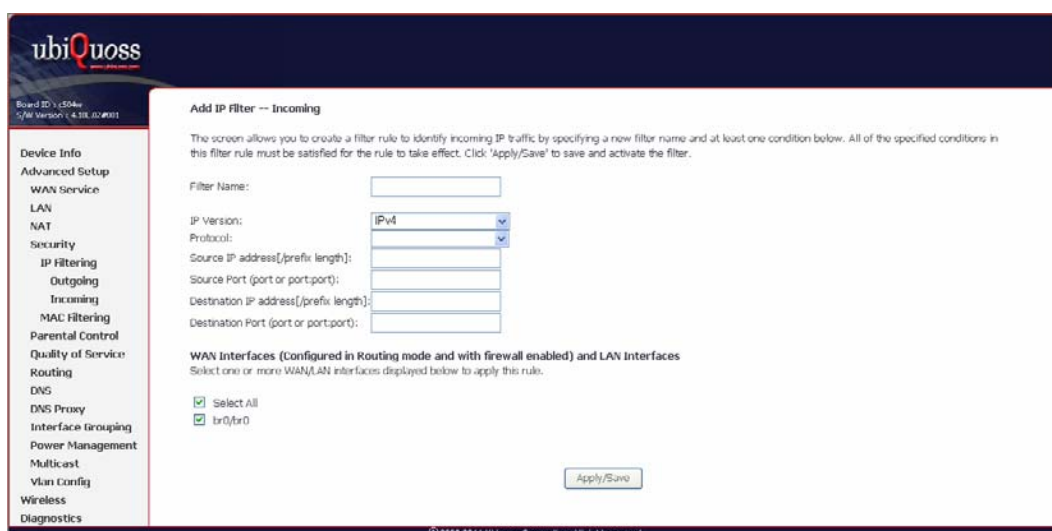
So you must set the rule for the specific traffic that can be incoming via the interface on running Firewall.

The following shows the information about the current applied Filter.

- Filter name
- Interfaces
- IP Version
- Protocol
- Source IP Address / Prefix
- Source Port
- Destination IP Address / Prefix
- Destination Port



The screen allows you to create a filter rule to identify incoming IP traffic by specifying a new filter name and at least one condition below. All of specified conditions in this filter rule must be satisfied for the rule to take effect. Click [Apply/Save] to save and activate the filter.

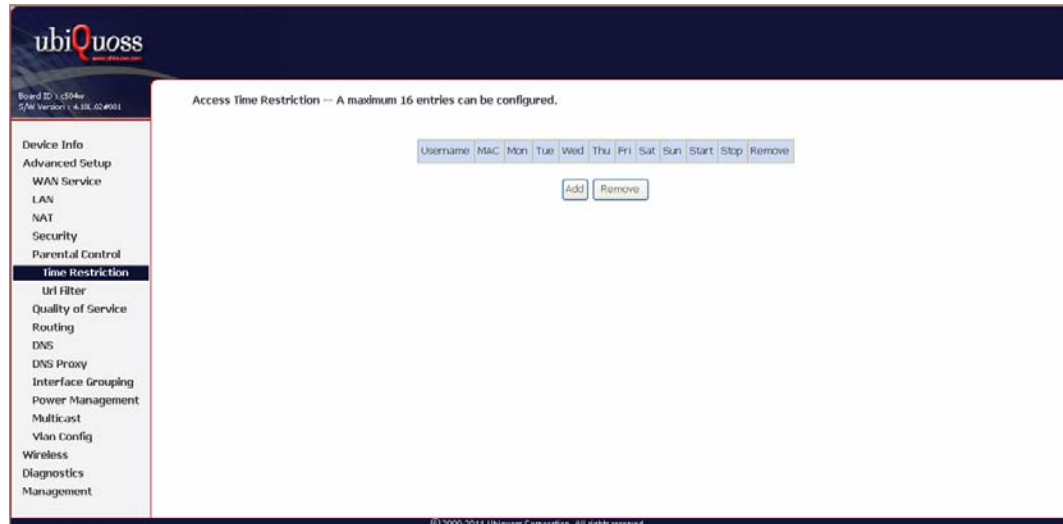




## Parental Control

### Time Restriction

This page adds time of day restriction to a special LAN device connected to the C504W.



ubiQuoss

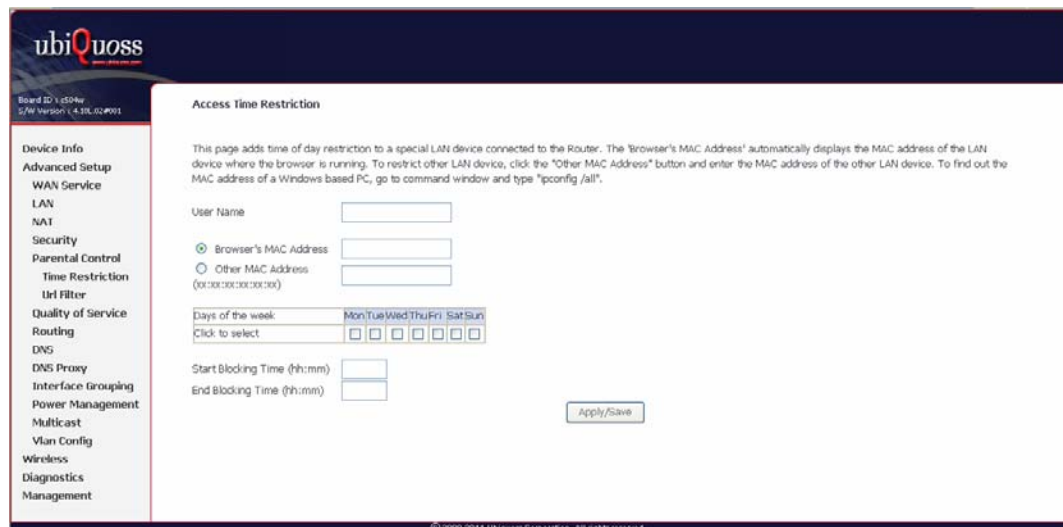
Board ID: C504W  
S/W Version: 4.10.02.0011

Device Info  
Advanced Setup  
WAN Service  
LAN  
NAT  
Security  
Parental Control  
**Time Restriction**  
Url Filter  
Quality of Service  
Routing  
DNS  
DNS Proxy  
Interface Grouping  
Power Management  
Multicast  
Vlan Config  
Wireless  
Diagnostics  
Management

Access Time Restriction -- A maximum 16 entries can be configured.

Username	MAC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start	Stop	Remove
<input type="button" value="Add"/> <input type="button" value="Remove"/>											

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ubiQuoss

Board ID: C504W  
S/W Version: 4.10.02.0011

Device Info  
Advanced Setup  
WAN Service  
LAN  
NAT  
Security  
Parental Control  
**Time Restriction**  
Url Filter  
Quality of Service  
Routing  
DNS  
DNS Proxy  
Interface Grouping  
Power Management  
Multicast  
Vlan Config  
Wireless  
Diagnostics  
Management

Access Time Restriction

This page adds time of day restriction to a special LAN device connected to the Router. The 'Browser's MAC Address' automatically displays the MAC address of the LAN device where the browser is running. To restrict other LAN device, click the "Other MAC Address" button and enter the MAC address of the other LAN device. To find out the MAC address of a Windows based PC, go to command window and type "ipconfig /all".

User Name:

☒ Browser's MAC Address

☐ Other MAC Address

Days of the week: Mon Tue Wed Thu Fri Sat Sun  
Click to select: ☐ ☐ ☐ ☐ ☐ ☐ ☐

Start Blocking Time (hh:mm):

End Blocking Time (hh:mm):

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## URL Filter

You can set the function restricting specific URL. If you do not enter port number, it is set with 80 basically. According to selecting [Include] or [Exclude], it is applied if including URL Filter.

The screenshot shows the ubiQuoss web interface. On the left is a navigation menu with options: Device Info, Advanced Setup, WAN Service, LAN, NAT, Security, Parental Control, Time Restriction, **Url Filter**, Quality of Service, Routing, DNS, DNS Proxy, Interface Grouping, Power Management, Multicast, Vlan Config, Wireless, Diagnostics, and Management. The main content area is titled "URL Filter -- Please select the list type first then configure the list entries. Maximum 100 entries can be configured." Below this, there are radio buttons for "Exclude" and "Include". A table with headers "Address", "Port", and "Remove" is shown, with "Add" and "Remove" buttons below it. The footer contains the copyright notice "© 2000-2011 Ubiquiti Corporation. All rights reserved."

The screenshot shows the "Parental Control -- URL Filter Add" page in the ubiQuoss web interface. The left navigation menu is the same as the previous screenshot, with "Url Filter" selected. The main content area has the title "Parental Control -- URL Filter Add" and a sub-instruction: "Enter the URL address and port number then click 'Apply/Save' to add the entry to the URL filter." Below this, there are input fields for "URL Address:" and "Port Number:". A note next to the Port Number field states "(Default 80 will be applied if leave blank.)". An "Apply/Save" button is located at the bottom right of the form. The footer contains the copyright notice "© 2000-2011 Ubiquiti Corporation. All rights reserved."

## Quality of Service

If enable QoS checkbox is selected, choose a default DSCP mark to automatically mark incoming traffic without reference to particular classifier.

Click [Apply/Save] button to save it.



Note

If enable Qos checkbox is not selected, all Qos will be disabled for all interfaces.



Note

The default DSCP mark is used to mark all egress packets that do not match any classification rules.

According to types like voice, video and real time traffic, QoS processes traffic with assigning queues according to priority. There is the field configuring scheduling way according to management queues. The scheduling way setting to WEB GUI applies SP.

Name	Key	Interface	Scheduler Alg	Precedence	Weight	DSL Latency	PTM Priority	Enable	Remove
WMM Voice Priority 1	1	wl0	SP	1				<input type="checkbox"/>	
WMM Voice Priority 2	2	wl0	SP	2				<input type="checkbox"/>	
WMM Video Priority 3	3	wl0	SP	3				<input type="checkbox"/>	
WMM Video Priority 4	4	wl0	SP	4				<input type="checkbox"/>	
WMM Best Effort 5	5	wl0	SP	5				<input type="checkbox"/>	
WMM Background 6	6	wl0	SP	6				<input type="checkbox"/>	
WMM Background 7	7	wl0	SP	7				<input type="checkbox"/>	
WMM Best Effort 8	8	wl0	SP	8				<input type="checkbox"/>	

If each classification class concurs with the classification rule, it is applied to packet with the defined name, classification rule and Action. It is changed the selective range about Ether Type application according to class Interface.

In case of LAN Interface, you can select DSCP Priority, IP type(0x800) to apply 802.1p Priority and 8021Q type(0x8100). In case of WAN Interface, you can select only IP type(0x800) and apply the DSCP Priority.



**QoS Classification Setup -- maximum 32 rules can be configured.**

To add a rule, click the **Add** button.  
 To remove rules, check their remove checkboxes, then click the **Remove** button.  
 The **Enable** button will scan through every rules in the table. Rules with enable-checkbox checked will be enabled. Rules with enable-checkbox unchecked will be disabled.  
 The enable-checkbox also shows status of the rule after page reload.  
 If you disable WMM function in Wireless Page, classification related to wireless will not take effects.

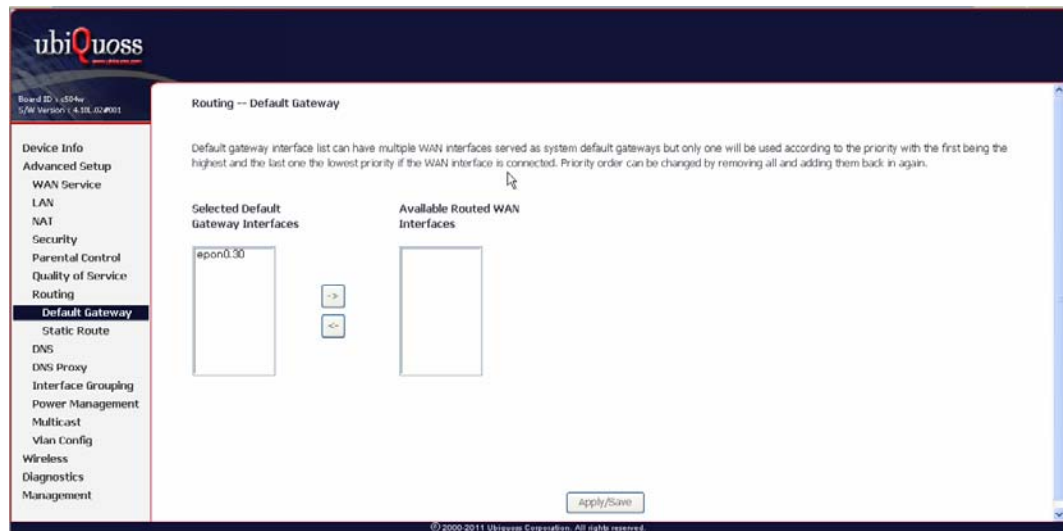
The QoS function has been disabled. Classification rules would not take effects.

CLASSIFICATION CRITERIA										CLASSIFICATION RESULTS												
Class Name	Order	Class Intf	Ether Type	SrcMAC Mask	DstMAC Mask	SrcIP PrefixLength	DstIP PrefixLength	Proto	SrcPort	DstPort	DSCP Check	802.1P Check	Queue Key	Policer Key	DSCP Mark	802.1P Mark	Rule Limit (kbps)	Enable	Remove			
																				<b>Add</b>	<b>Enable</b>	<b>Remove</b>

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## Routing

Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.



By setting Static route, you can designate a routing path. It can be set maximum 32 routing path.



You can set it per current created WAN Interface or Bridge Interface.

ubiQuoss

Board ID : 963629epon  
S/W Version : 4.10L02#001

Device Info

Advanced Setup

WAN Service

LAN

NAT

Security

Parental Control

Quality of Service

Routing

Default Gateway

Static Route

DNS

DNS Proxy

Interface Grouping

Power Management

Multicast

Vlan Config

Wireless

Routing -- Static Route Add

Enter the destination network address, subnet mask, gateway AND/OR available WAN interface then click "Apply/Save" to add the entry to the routing table.

IP Version:

IPv4

Destination IP address/prefix length:

Interface:

Gateway IP Address:

(optional: metric number should be greater than or equal to zero)

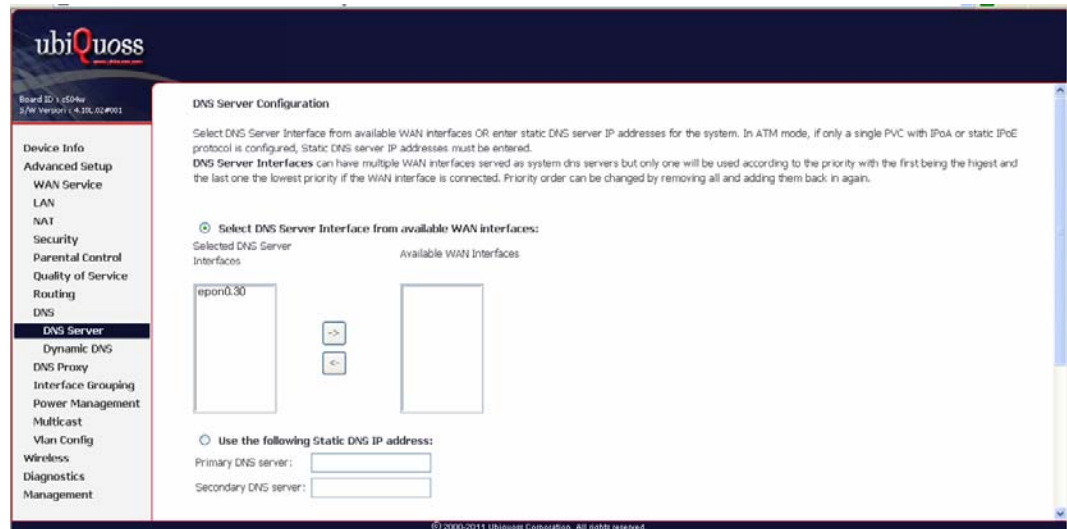
Metric:

Apply/Save

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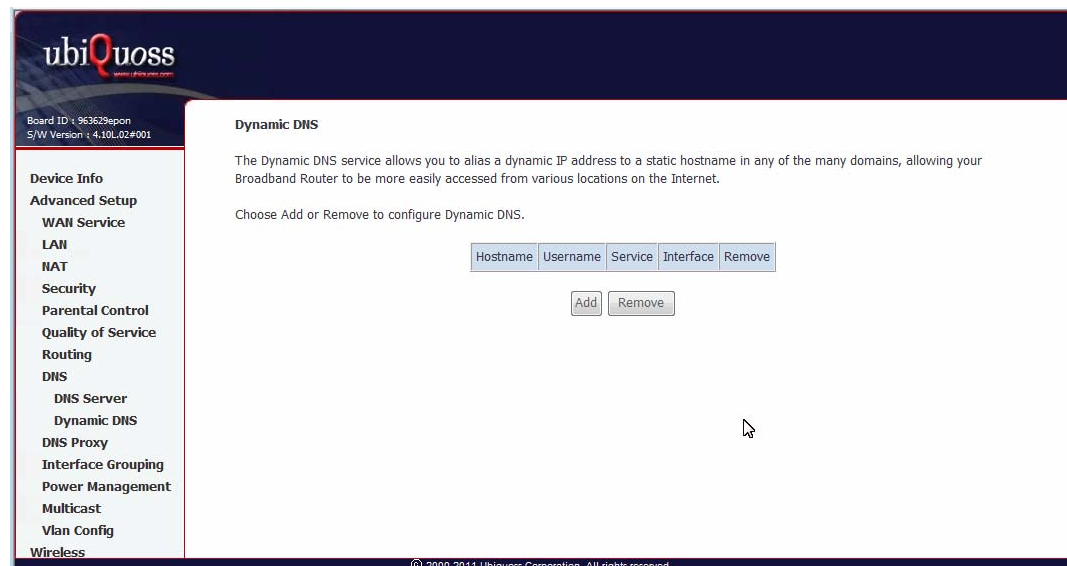
## DNS

You can select DNS Server interface from available WAN Interface automatically OR enter static DNS server IP addresses for the C504W.



The Dynamic DNS service allows you to alias a dynamic IP address to a static hostname in any of the many domains, allowing your Broadband Router to be more easily accessed from various locations on the Internet.

Select Add or Remove to configure Dynamic DNS.





ubiQuoss

Board ID : 963629epon  
S/W Version : 4.10L02#001

Device Info

Advanced Setup

WAN Service

LAN

NAT

Security

Parental Control

Quality of Service

Routing

DNS

DNS Server

Dynamic DNS

DNS Proxy

Interface Grouping

Power Management

Multicast

Vlan Config

Wireless

Add Dynamic DNS

This page allows you to add a Dynamic DNS address from DynDNS.org or TZO.

D-DNS provider

DynDNS.org

Hostname

Interface

ipoe\_epon0.30/epon0.30

DynDNS Settings

Username

Password

Apply/Save

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## DNS Proxy

DNS Proxy Server exists between Local Client(PC) and DNS Server and the Clients ask Domain name to DNS Proxy Server. In case that DNS Proxy Server does not have this information at chche, it ask the relevant Domain to DNS Server then relay it to client.

ubiQuoss

Board ID : 963629epon  
S/W Version : 4.10L02#001

Device Info

Advanced Setup

WAN Service

LAN

NAT

Security

Parental Control

Quality of Service

Routing

DNS

DNS Proxy

Interface Grouping

Power Management

Multicast

Vlan Config

Wireless

Diagnostics

Management

DNS Proxy Configuration

☒ Enable DNS Proxy

Host name of the Broadband Router:

Broadcom

Domain name of the LAN network:

Home

Apply/Save

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## Interface Grouping

Interface Grouping supports multiple ports to PVC and bridging groups. Each group will perform as an independent network. To support this function, you must create mapping groups with appropriate LAN and WAN interfaces using [Add] button. The [Remove] button will remove the grouping and add the ungrouped interfaces to the Default group. By default, one default group has all LAN interfaces.

**ubiQuoss**  
Board ID: v004w  
F/W Version: 4.10.02.001

**Device Info**  
Advanced Setup  
WAN Service  
LAN  
NAT  
Security  
Parental Control  
Quality of Service  
Routing  
DNS  
DNS Proxy  
**Interface Grouping**  
Power Management  
Multicast  
Vlan Config  
Wireless  
Diagnostics  
Management

**Interface Grouping -- A maximum 16 entries can be configured**

Interface Grouping supports multiple ports to PVC and bridging groups. Each group will perform as an independent network. To support this feature, you must create mapping groups with appropriate LAN and WAN interfaces using the Add button. The Remove button will remove the grouping and add the ungrouped interfaces to the Default group. Only the default group has IP interface.

Group Name	Remove	WAN Interface	LAN Interfaces	DHCP Vendor IDs
Default		epon0.30	eth0	
		epon0.0	eth1	
			eth2	
			eth3	
			wlan0	
			wl0_Guest1	
			wl0_Guest2	
			wl0_Guest3	

Add Remove

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## Power Management

It can manage Power management configuration of the each hardware on the system by user.

The screenshot shows the 'Power Management' configuration page in the ubiQuoss web interface. The left sidebar contains a menu with options: Device Info, Advanced Setup, WAN Service, LAN, NAT, Security, Parental Control, Quality of Service, Routing, DNS, DNS Proxy, Interface Grouping, Power Management (selected), Multicast, Vlan Config, Wireless, Diagnostics, and Management. The main content area is titled 'Power Management' and includes a description: 'This page allows control of Hardware modules to evaluate power consumption. Use the control buttons to select the desired option, click Apply and check the status response.' Below this, there are two sections: 'Wait instruction when Idle' with a checked 'Enable' checkbox and a 'Status: Enabled' link, and 'Ethernet Auto Power Down' with a checked 'Enable' checkbox, a 'Status: Enabled' link, and a 'Number of ethernet interfaces in:' section showing 'Full power mode: 0' and 'Low power mode: 4'. At the bottom right of the main content area are 'Apply' and 'refresh' buttons. The footer of the page reads '© 2000-2011 Ubiquiti Corporation. All rights reserved.'

## Multicast

Enter IGMP protocol configuration fields if you want modify default values shown below.

The screenshot shows the 'IGMP Configuration' page in the ubiQuoss web interface. The left sidebar is identical to the previous screenshot, with 'Multicast' selected. The main content area is titled 'IGMP Configuration' and includes a description: 'Enter IGMP protocol configuration fields if you want modify default values shown below.' Below this, there are several configuration fields: 'Default Version:' (3), 'Query Interval:' (125), 'Query Response Interval:' (10), 'Last Member Query Interval:' (10), 'Robustness Value:' (2), 'Maximum Multicast Groups:' (25), 'Maximum Multicast Data Sources (for IGMPv3): (1 - 24):' (10), 'Maximum Multicast Group Members:' (25), 'Fast Leave Enable:' (checked), and 'LAN to LAN (Intra LAN) Multicast Enable:' (unchecked). The footer of the page reads '© 2000-2011 Ubiquiti Corporation. All rights reserved.'

## VLAN Config

You can set VLAN function having Tag and ID Priority, Device Mode values per WAN Interface and LAN Interface at the system. After VLAN Global status must be enabled, it is realized that the condition that the set values to each interface are applied. At the same time After VLAN function activation flag must be enabled, it is applied.

Board ID: C504W  
S/W Version: 4.10.02.001

Device Info  
Advanced Setup  
WAN Service  
LAN  
NAT  
Security  
Parental Control  
Quality of Service  
Routing  
DNS  
DNS Proxy  
Interface Grouping  
Power Management  
Multicast  
**Vlan Config**  
Wireless  
Diagnostics  
Management

Vlan Configuration

Enter Vlan configuration fields if you want modify default values shown below.

VLAN Global Enable: Enabled

Index	Enable	Interface Name	LAN/WAN	Tag	Vlan ID (1-4094)	Priority	Device Mode
1	<input checked="" type="checkbox"/>	epon0	WAN	<input checked="" type="checkbox"/>	30	0	Route
2	<input type="checkbox"/>	eth0	LAN	<input type="checkbox"/>	101	0	Bridge
3	<input type="checkbox"/>	eth1	LAN	<input type="checkbox"/>	102	0	Bridge
4	<input type="checkbox"/>	eth2	LAN	<input type="checkbox"/>	103	0	Bridge
5	<input type="checkbox"/>	eth3	LAN	<input type="checkbox"/>	104	0	Bridge
8	<input type="checkbox"/>	wp0	LAN	<input type="checkbox"/>	107	0	Bridge
9	<input type="checkbox"/>	wp1	LAN	<input type="checkbox"/>	108	0	Bridge
10	<input type="checkbox"/>	wp2	LAN	<input type="checkbox"/>	109	0	Bridge
11	<input type="checkbox"/>	wp3	LAN	<input type="checkbox"/>	110	0	Bridge

Apply Refresh

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## Wireless

### Basic

You can set about basic Wireless Interface. This menu provides total 4 Wireless Interfaces. You can set the activation of Wireless Interface, scanning activation from network list, SSID and Country for available wireless channel.

Board ID: x504w  
Firmware Version: 4.10.12.4901

Device Info  
Advanced Setup  
Wireless  
Basic  
Security  
MAC Filter  
Wireless Bridge  
Advanced  
Station Info  
Scan Info  
Diagnostics  
Management

☒ Enable Wireless  
☐ Hide Access Point  
☐ Clients Isolation  
☐ Disable WMM Advertise  
☐ Enable Wireless Multicast Forwarding (WMF)

SSID:   
 BSSID:   
 Country:   
 Max Clients:

Wireless - Guest/Virtual Access Points:

Enabled	SSID	Hidden	Isolate Clients	Disable WMM Advertise	Enable WMF	Max Clients	BSSID
<input type="checkbox"/>	BEAMTELECOM2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	N/A
<input type="checkbox"/>	BEAMTELECOM3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	N/A
<input type="checkbox"/>	BEAMTELECOM4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	N/A

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### Security

It sets the ways of Security about each Wireless Interface. There are two ways. One is WPS Setup using automatic security setting and the other is Manual Setup AP setting security way manually.

Board ID: x504w  
Firmware Version: 4.10.12.4901

Device Info  
Advanced Setup  
Wireless  
Basic  
Security  
MAC Filter  
Wireless Bridge  
Advanced  
Station Info  
Scan Info  
Diagnostics  
Management

Wireless -- Security

This page allows you to configure security features of the wireless LAN interface.  
 You may setup configuration manually  
 OR  
 through WiFi Protected Setup(WPS)

WPS Setup

Enable WPS:

Manual Setup AP

You can set the network authentication method, selecting data encryption, specify whether a network key is required to authenticate to this wireless network and specify the encryption strength. Click "Apply/Save" when done.

Select SSID:   
 Network Authentication:   
 WEP Encryption:

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- WPS Setup

If you change it as Enable, it will be activated.

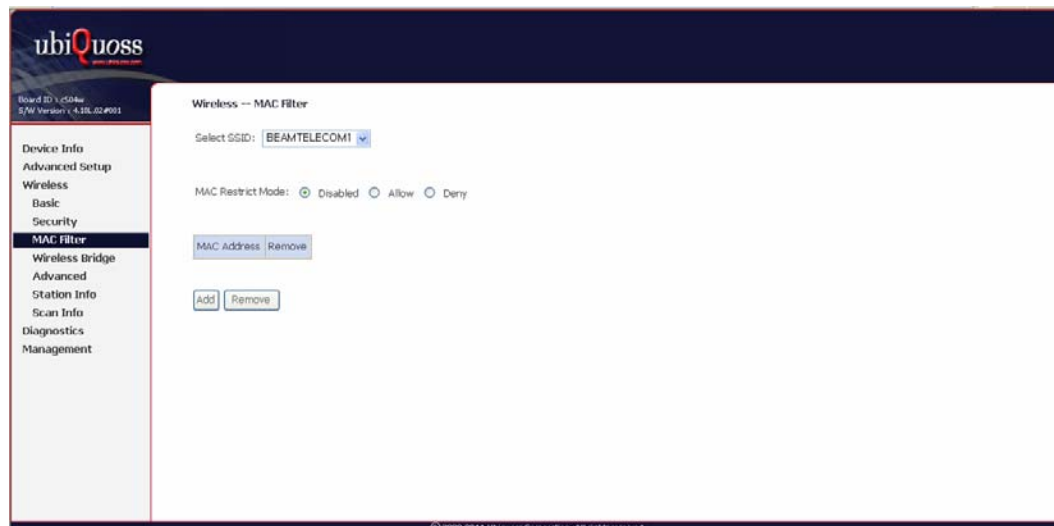
- Push-Button: It does security authentication using WPS button on the Wireless LAN card and terminal supporting WPS.
- PIN: it does security authentication using PIN number in the terminal.
- Set WPS AP Mode: With using way of WPS and Manual security together, In case of setting with Configured, it is activated.
- Manual Setup AP

It is the way setting network authentication manually. With the data encryption and network key for authentication, it is also more powerful authentication setting

- Select SSID: Selects interface to set security among the Wireless Interface.
- Network Authentication: Selects network authentication way.
  - Open: It does not use Encryption.
  - Shared: It uses WEB Encryption. In case of 64bit, use security key of 5 or 10 digit. In case of 128bit, use security key of 13 or 26 digit. It performs authentication using number key value set to Current Network Key.
  - 802.1X: It uses RADIUS server for user authentication and WEP key encryption. Enter Key to access and RADIUS server IP and Port number.
  - WPA: It uses RADIUS authentication way and WPA/WAPI encryption. It selects TKIP+AES using TKIP and AES as encryption way.
  - WPA-PSK: It uses Pre-Shared Key way for encryption. It performs authentication using WPA/WAPI passphrase key set on C504W terminal.
  - WPA2: With more powerful WPA way, it accesses after taking authentication from RADIUS server.
  - WPA2-PSK: It performs authentication using WPA/WAPI passphrase key setting on C504W.
  - Mixed WPA2/WPA: It uses WPA and WPA2 at the same time.
  - Mixed WPA2/WPA-PSK: It uses WPA-PSK and WPA2-PSK at the same time.
- WEP Encryption: It Sets Security key used for authentication.

## MAC Filter

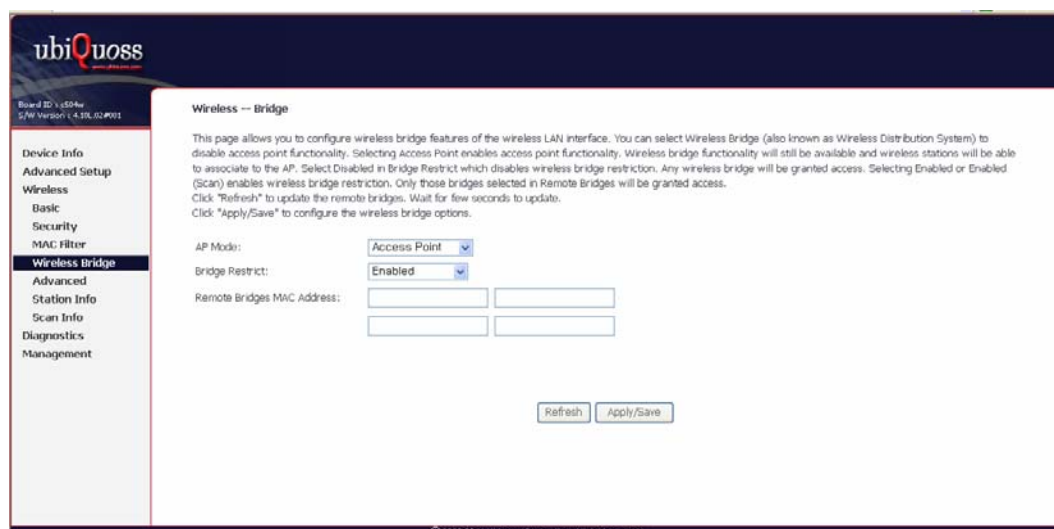
It manages the allowed MAC or denied MAC address list per Wireless Interface.



- Add : Add MAC address.
- Remove : Remove MAC address registered from list.
- Disabled : Disable MAC Filter function.
- Allow : Allow MAC address registered from list.
- Deny : Deny MAC address registered from list.

## Wireless Bridge

It is function to bind Wireless groups connected with C504W or wireless devices searched around as one network.



In case that Bridge Restrict enable, it is activated. If selecting Enable, enter wireless interface MAC address directly. If selecting Enable(scan), select wireless interface searched.

## Advanced

You can basic wireless settings of the Wireless LAN Interface. It sets for wireless connection like Wireless channel, transmission rate, Fragmentation Threshold, RTS Threshold, the wakeup interval for clients in power-save mode and Beacon interval.

**Wireless -- Advanced**

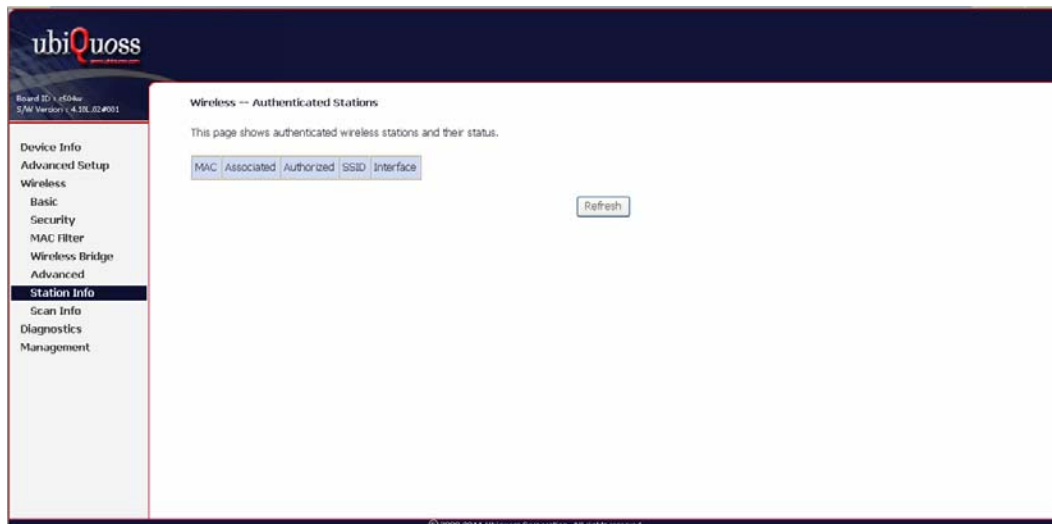
This page allows you to configure advanced features of the wireless LAN interface. You can select a particular channel on which to operate, force the transmission rate to a particular speed, set the fragmentation threshold, set the RTS threshold, set the wakeup interval for clients in power-save mode, set the beacon interval for the access point, set XPress mode and set whether short or long preambles are used. Click "Apply/Save" to configure the advanced wireless options.

Band: 2.4GHz  
Channel: 6 (Current: 6 (interference: acceptable))  
Auto Channel Timer (min): 0  
802.11n/EWC: Disabled  
Bandwidth: 20MHz in 2.4G Band and 40MHz in 5G Band (Current: 20MHz)  
Control Sideband: Lower  
802.11n Rate: Auto (Current: None)  
802.11n Protection: Auto  
Support 802.11n Client Only: Off  
RIFS Advertisement: Off  
OBSS Co-Existence: Disable  
RX Chain Power Save: Disable  
RX Chain Power Save Quiet Time: 10  
RX Chain Power Save PPS: 10  
54g Rate: 1 Mbps  
Multicast Rate: Auto  
Basic Rate: Default  
Power Save status: Full Power

- Band : Selects the one band between 2.4GHz or 5GHz.
- Channel : In case of Auto, one channel is selected as random. In other case, you select channel number.
- 802.11n/EWC : Enables 802.11n.
- Bandwidth : Selects 2.4G band of 20MHz and 5G band of 40MHz.
- 802.11n Rate : In case of using only 802.11g, select Use 54g Rate. In case of Auto, the most powerful Rate is selected. In other case, you select a Rate.
- 54g<sup>TM</sup> Rate : Selects Rate of using with 802.11g.
- Fragmentation Threshold : Shows Fragmentation Thr.
- RTS Threshold : Shows RTS Threshold.
- Beacon Interval : Shows Beacon message interval.
- Global Max Clients : Shows maximum number of user accessing on the one interface.
- Transmit Power : Selects transmission Power.

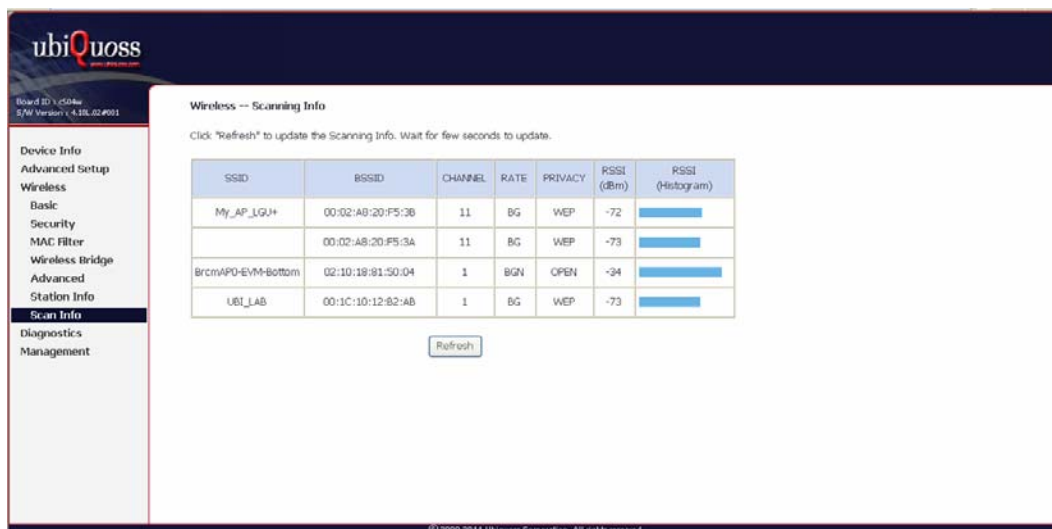
## Station Info

This page shows authenticated wireless stations and their status.



## Scan Info

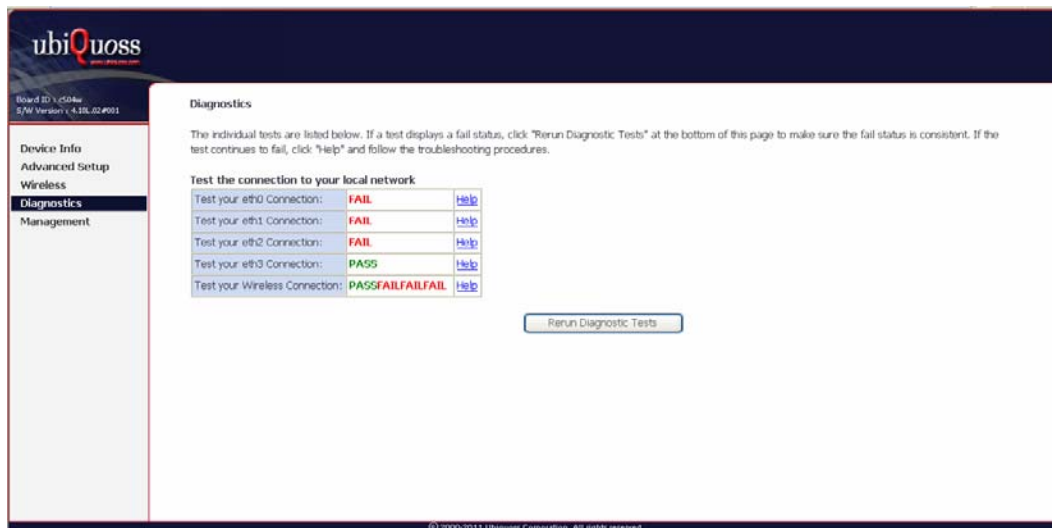
It shows AP information existing around. If you select [Refresh] button, refresh the AP information around.





## Diagnostics

It shows the connection to your local network.



**Ethernet:** In case that each interface is connected with ethernet link, It shows PASS. Otherwise it shows FAIL.

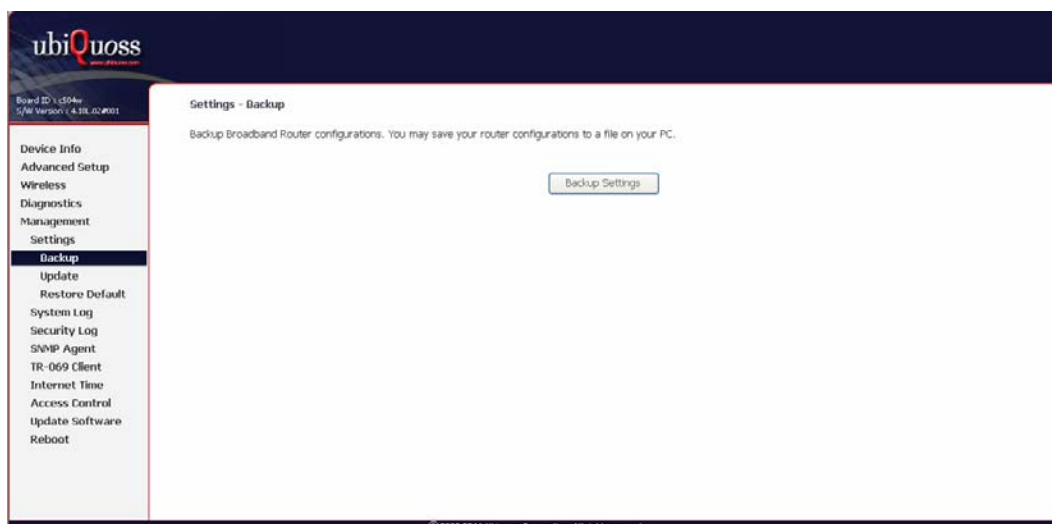
**Wireless:** In case that each interface is enabled, it shows PASS. Otherwise it shows FAIL.

# Management

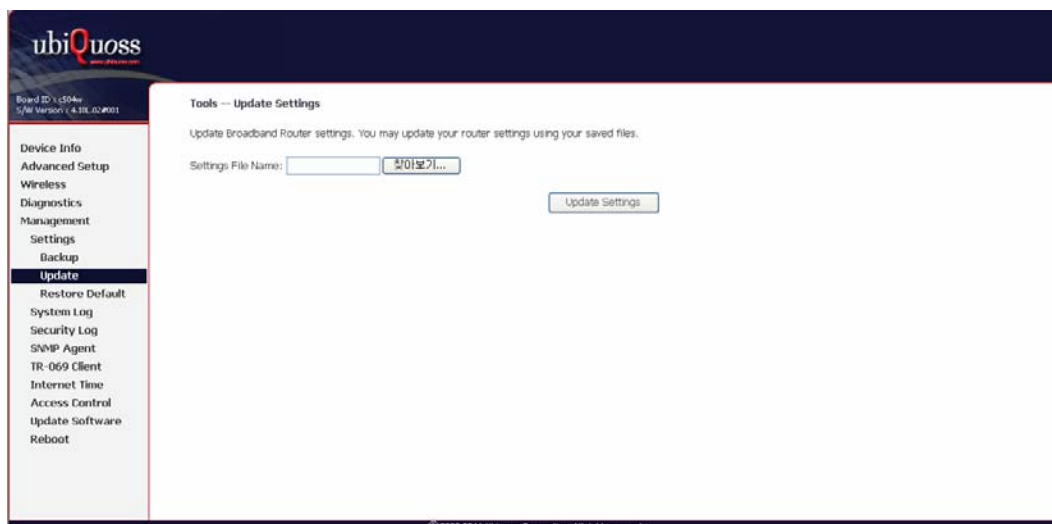
## Settings

It sets total changes about settings to C504W.

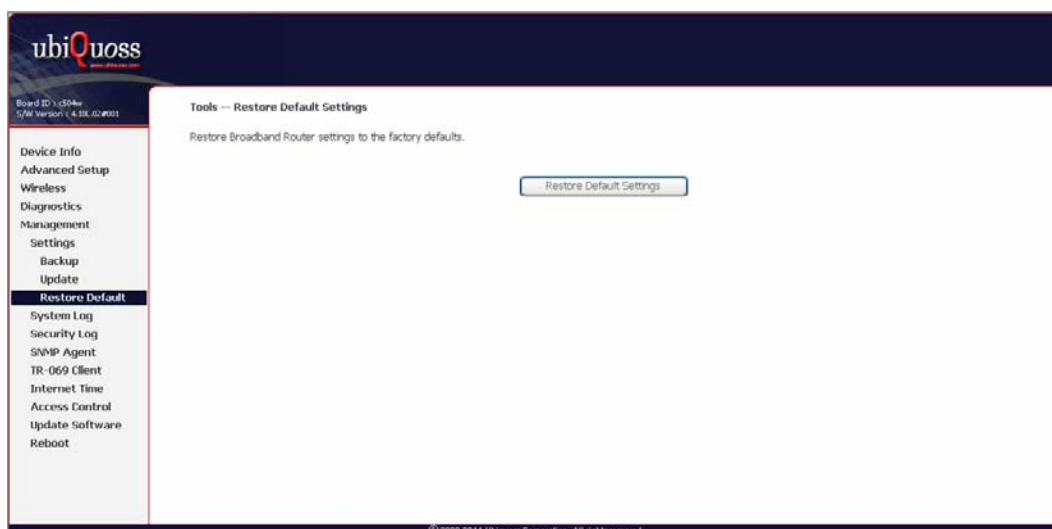
Backup : You can save current C504W configurations with a file on your PC.



Update : You can update C504W settings using your saved files.

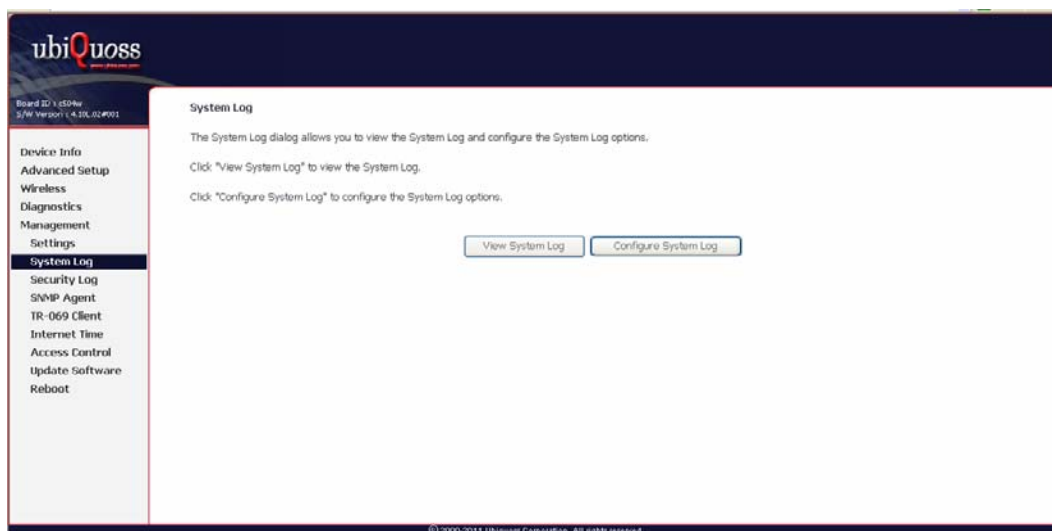


Restore Default Settings : Restore C504W settings to the factory defaults.



## System Log

It displays System Log.

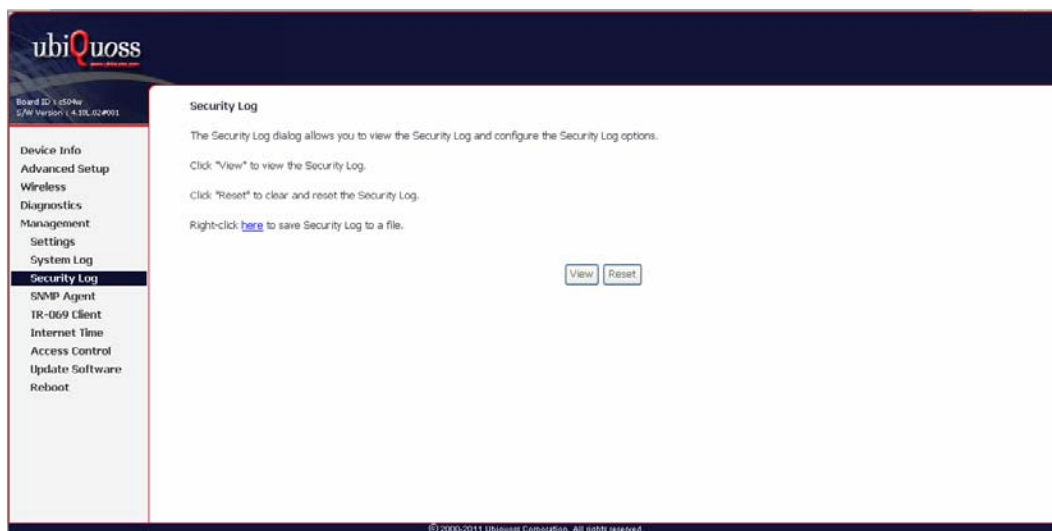


Shows System Log. In case that Log should be enabled, It can shows the log.

Configure System Log : Select system log option.

## Security Log

It shows Security Log.



View : Shows Security Log.

Reset : Deletes former Log, then shows Log after deleting.

## SNMP Agent

It sets configuration that C504W run as SNMP Agent.

## TR-069 Client

It sets the connection setting about ACS changing the set value of C504W.

Select the desired values and click [Apply/Save] to configure the TR-069 client options.

Inform : If the connection is used for the ACS server.

Inform Interval : The communication interval with ACS server.

ACS URL : The server URL to send TR-069 setting value.

ACS User Name : User Name for ACS server authorization.

ACS Password : Password for ACS authorization.

WAN Interface used by TR-069 client : WAN Interface to connect ACS server.

Connection Request Authentication : Authentication to connect C504W and ACS server.

Connection Request User Name : Authenticated User name registered at the ACS server.

Connection Request Password : Authenticated Password registered at the ACS server.

## Internet Time

You can select internet time configuration of C504W.

**ubiQuoss**  
Board ID: C504W  
F/W Version: v.4.10.02.001

**Device Info**  
Advanced Setup  
Wireless  
Diagnostics  
Management  
Settings  
System Log  
Security Log  
SNMP Agent  
TR-069 Client  
Internet Time  
Access Control  
Update Software  
Reboot

### Time settings

This page allows you to the modem's time configuration.

☒ Automatically synchronize with Internet time servers

First NTP time server: time.nist.gov  
Second NTP time server: ntp1.tummy.com  
Third NTP time server: None  
Fourth NTP time server: None  
Fifth NTP time server: None

Time zone offset: (GMT-08:00) Pacific Time, Tijuana

Apply/Save

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## Access Control

You can manage the account to access to the C504W.

**ubiQuoss**  
Board ID: vC504w  
S/W Version: v4.10.02.0011

**Access Control -- Passwords**

Access to your broadband router is controlled through three user accounts: admin, support, and user.

The user name "admin" has unrestricted access to change and view configuration of your Broadband Router.

The user name "support" is used to allow an ISP technician to access your Broadband Router for maintenance and to run diagnostics.

The user name "user" can access the Broadband Router, view configuration settings and statistics, as well as, update the router's software.

Use the fields below to enter up to 16 characters and click "Apply/Save" to change or create passwords. Note: Password cannot contain a space.

User Name:

Old Password:

New Password:

Confirm Password:

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## Update Software

You can update software using C504W.

**ubiQuoss**  
Board ID: vC504w  
S/W Version: v4.10.02.0011

**Tools -- Update Software**

**Step 1:** Obtain an updated software image file from your ISP.

**Step 2:** Enter the path to the image file location in the box below or click the "Browse" button to locate the image file.

**Step 3:** Click the "Update Software" button once to upload the new image file.

**NOTE:** The update process takes about 2 minutes to complete, and your Broadband Router will reboot.

Software File Name:

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## Reboot

You can reboot C504W with this menu.