

**Multi-Functional Wireless Broadband NAT Router (R1.97f2a)**

ADMINISTRATOR's MAIN MENU   Status   Wizard   Logout

BASIC SETTING   FORWARDING RULES   SECURITY SETTING   ADVANCED SETTING   TOOLBOX

- Primary Setup
- DHCP Server
- **Wireless**
- Change Password

Wireless Setting [ HELP ]

| Item                | Setting                                                               |
|---------------------|-----------------------------------------------------------------------|
| ▶ Wireless          | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Network ID(SSID)  | <input type="text" value="default"/>                                  |
| ▶ Wireless Mode     | <input type="radio"/> Mixed <input checked="" type="radio"/> 11g only |
| ▶ SSID broadcast    | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Channel           | <input type="text" value="11"/> ▼                                     |
| ▶ Security          | <input type="text" value="WPA"/> ▼                                    |
| ▶ Encryption        | <input checked="" type="radio"/> TKIP <input type="radio"/> AES       |
| ▶ RADIUS Server IP  | <input type="text" value="192.168.123.33"/>                           |
| ▶ RADIUS port       | <input type="text" value="1812"/>                                     |
| ▶ RADIUS Shared Key | <input type="text" value="1234"/>                                     |

Save   Undo   WDS Setting...   MAC Address Control...

## WPA2-PSK(AES)

### 1. Select Pre-share Key Mode

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

### 2. Fill in the key, Ex 12345678

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Wireless Setting
[ HELP ]

| Item                | Setting                                                               |
|---------------------|-----------------------------------------------------------------------|
| ▶ Wireless          | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Network ID(SSID)  | <input type="text" value="default"/>                                  |
| ▶ Wireless Mode     | <input type="radio"/> Mixed <input checked="" type="radio"/> 11g only |
| ▶ SSID broadcast    | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Channel           | <input type="text" value="11"/> ▼                                     |
| ▶ Security          | <input type="text" value="WPA2-PSK(AES)"/> ▼                          |
| ▶ Preshare Key Mode | <input type="text" value="ASCII"/> ▼                                  |
| ▶ Preshare Key      | <input type="text"/>                                                  |

Save
Undo
WDS Setting...
MAC Address Control...

## WPA2(AES)

Check Box was used to switch the function of the WPA. When the WPA function is enabled, the Wireless user must **authenticate** to this router first to use the Network service. RADIUS Server

IP address or the 802.1X server's domain-name.

Select RADIUS Shared Key

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

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Wireless Setting
[ HELP ]

| Item                | Setting                                                               |
|---------------------|-----------------------------------------------------------------------|
| ▶ Wireless          | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Network ID(SSID)  | <input type="text" value="default"/>                                  |
| ▶ Wireless Mode     | <input type="radio"/> Mixed <input checked="" type="radio"/> 11g only |
| ▶ SSID broadcast    | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Channel           | <input type="text" value="11"/> ▼                                     |
| ▶ Security          | <input type="text" value="WPA2(AES)"/> ▼                              |
| ▶ RADIUS Server IP  | <input type="text" value="0.0.0.0"/>                                  |
| ▶ RADIUS port       | <input type="text" value="1812"/>                                     |
| ▶ RADIUS Shared Key | <input type="text"/>                                                  |

Save
Undo
WDS Setting...
MAC Address Control...

## WPA-PSK /WPA2-PSK

The router will detect automatically which Security type the client uses to encrypt.

### 1. Select Pre-share Key Mode

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

### 2. Fill in the key, Ex 12345678

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- Primary Setup
- DHCP Server
- **Wireless**
- Change Password

Wireless Setting
[ HELP ]

| Item                | Setting                                                               |
|---------------------|-----------------------------------------------------------------------|
| ▶ Wireless          | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Network ID(SSID)  | <input type="text" value="default"/>                                  |
| ▶ Wireless Mode     | <input type="radio"/> Mixed <input checked="" type="radio"/> 11g only |
| ▶ SSID broadcast    | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Channel           | <input type="text" value="11"/> ▼                                     |
| ▶ Security          | <input type="text" value="WPA-PSK / WPA2-PSK"/> ▼                     |
| ▶ Preshare Key Mode | <input type="text" value="ASCII"/> ▼                                  |
| ▶ Preshare Key      | <input type="text"/>                                                  |

Save
Undo
WDS Setting...
MAC Address Control...

## WPA/WPA2

Check Box was used to switch the function of the WPA. When the WPA function is enabled, the Wireless user must **authenticate** to this router first to use the Network service. RADIUS Server

The router will detect automatically which Security type(Wpa-psk version 1 or 2) the client uses to encrypt.

IP address or the 802.1X server's domain-name.

Select RADIUS Shared Key

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

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- Primary Setup
- DHCP Server
- Wireless
- Change Password

Wireless Setting
[ HELP ]

| Item                | Setting                                                               |
|---------------------|-----------------------------------------------------------------------|
| ▶ Wireless          | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Network ID(SSID)  | <input type="text" value="default"/>                                  |
| ▶ Wireless Mode     | <input type="radio"/> Mixed <input checked="" type="radio"/> 11g only |
| ▶ SSID broadcast    | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| ▶ Channel           | <input type="text" value="11"/> ▼                                     |
| ▶ Security          | <input type="text" value="WPA1/WPA2"/> ▼                              |
| ▶ RADIUS Server IP  | <input type="text" value="0.0.0.0"/>                                  |
| ▶ RADIUS port       | <input type="text" value="1812"/>                                     |
| ▶ RADIUS Shared Key | <input type="text"/>                                                  |

Save
Undo
WDS Setting...
MAC Address Control...

### WDS(Wireless Distribution System)

WDS operation as defined by the IEEE802.11 standard has been made available. Using WDS it is possible to wirelessly connect Access Points, and in doing so extend a wired infrastructure to locations where cabling is not possible or inefficient to implement.

#### 4.4.4 Change Password

Multi-Functional Wireless Broadband NAT Router (R1.97f2a)

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BASIC SETTING

FORWARDING RULES

SECURITY SETTING

ADVANCED SETTING

TOOLBOX

Primary Setup

DHCP Server

Wireless

Change Password

Change Password

| Item         | Setting                  |
|--------------|--------------------------|
| Old Password | <input type="password"/> |
| New Password | <input type="password"/> |
| Reconfirm    | <input type="password"/> |

Save

Undo

You can change Password here. We **strongly** recommend you to change the system password for security reason.

## 4.5 Forwarding Rules

The screenshot displays the web interface of a Multi-Functional Wireless Broadband NAT Router (R1.97f2a). The top navigation bar includes links for ADMINISTRATOR's MAIN MENU, Status, Wizard, and Logout. Below this, a secondary menu highlights FORWARDING RULES, with other options like BASIC SETTING, SECURITY SETTING, ADVANCED SETTING, and TOOLBOX. On the left, a sidebar menu lists Virtual Server, Special AP, and Miscellaneous. The main content area, titled 'Forwarding Rules', provides a detailed overview of the features:

- **Virtual Server**
  - Allows others to access WWW, FTP, and other services on your LAN.
- **Special Application**
  - This configuration allows some applications to connect, and work with the NAT router.
- **Miscellaneous**
  - IP Address of DMZ Host: Allows a computer to be exposed to unrestricted 2-way communication. Note that, this feature should be used only when needed.
  - Non-standard FTP port: You have to configure this item if you want to access an FTP server whose port number is not 21 (when Client uses active mode).
  - UPnP Setting: If you enable UPnP function, the router will work with UPnP devices/software.

## 4.5.1 Virtual Server

**Multi-Functional Wireless Broadband NAT Router (R1.97f2a)**

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BASIC SETTING   **FORWARDING RULES**   SECURITY SETTING   ADVANCED SETTING   TOOLBOX

Virtual Server   Special AP   Miscellaneous

**Virtual Server** [ HELP ]

Well known services -- select one -- use Schedule rule (00)Always Copy to ID --

| ID | Server IP       | Service Ports | Protocol | Enable                              | Schedule Rule# |
|----|-----------------|---------------|----------|-------------------------------------|----------------|
| 1  | 192.168.122.13  | 14333         | Both     | <input checked="" type="checkbox"/> | 0              |
| 2  | 192.168.122.13  | 20699-20700   | Both     | <input checked="" type="checkbox"/> | 0              |
| 3  | 192.168.122.226 | 21            | Both     | <input checked="" type="checkbox"/> | 0              |
| 4  | 192.168.122.229 | 2005          | Both     | <input checked="" type="checkbox"/> | 0              |
| 5  | 192.168.122.218 | 25            | Both     | <input checked="" type="checkbox"/> | 0              |
| 6  | 192.168.122.218 | 110           | Both     | <input checked="" type="checkbox"/> | 0              |
| 7  | 192.168.122.218 | 22            | Both     | <input checked="" type="checkbox"/> | 0              |
| 8  | 192.168.122.218 | 80            | Both     | <input checked="" type="checkbox"/> | 0              |
| 9  | 192.168.122.13  | 4662-4663     | Both     | <input checked="" type="checkbox"/> | 0              |
| 10 | 192.168.122.    |               | Both     | <input type="checkbox"/>            | 0              |

Next >>   Save   Undo

This product's NAT firewall filters out unrecognized packets to protect your Intranet, so all hosts behind this product are invisible to the outside world. If you wish, you can make some of them accessible by enabling the Virtual Server Mapping.

A virtual server is defined as a **Service Port**, and all requests to this port will be redirected to the computer specified by the **Server IP**. **Virtual Server** can work with **Scheduling Rules**, and give user more flexibility on Access control. For Detail, please refer to **Scheduling Rule**.

For example, if you have an FTP server (port 21) at 192.168.123.1, a Web server (port 80) at 192.168.123.2, and a VPN server at 192.168.123.6, then you need to specify the following virtual server mapping table:

| Service Port | Server IP     | Enable |
|--------------|---------------|--------|
| 21           | 192.168.123.1 | V      |
| 80           | 192.168.123.2 | V      |
| 1723         | 192.168.123.6 | V      |

## 4.5.2 Special AP

Multi-Functional Wireless Broadband NAT Router (R1.97f2a)

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BASIC SETTING   **FORWARDING RULES**   SECURITY SETTING   ADVANCED SETTING   TOOLBOX

Virtual Server  
Special AP  
Miscellaneous

**Special Applications** [ HELP ]

Popular applications Battle.net [ Copy to ] ID 1

| ID | Trigger | Incoming Ports | Enable                              |
|----|---------|----------------|-------------------------------------|
| 1  | 6112    | 6112           | <input checked="" type="checkbox"/> |
| 2  |         |                | <input type="checkbox"/>            |
| 3  |         |                | <input type="checkbox"/>            |
| 4  |         |                | <input type="checkbox"/>            |
| 5  |         |                | <input type="checkbox"/>            |
| 6  |         |                | <input type="checkbox"/>            |
| 7  |         |                | <input type="checkbox"/>            |
| 8  |         |                | <input type="checkbox"/>            |

Save   Undo

Saved! Changes take effect immediately!

Some applications require multiple connections, like Internet games, Video conferencing, Internet telephony, etc. Because of the firewall function, these applications cannot work with a pure NAT router. The **Special Applications** feature allows some of these applications to work with this product. If the mechanism of Special Applications fails to make an application work, try setting your computer as the **DMZ** host instead.

1. **Trigger:** the outbound port number issued by the application..
2. **Incoming Ports:** when the trigger packet is detected, the inbound packets sent to the specified port numbers are allowed to pass through the firewall.

This product provides some predefined settings. Select your application and click **Copy to** to add the predefined setting to your list.

Note! At any given time, only one PC can use each Special Application tunnel.

### 4.5.3 Miscellaneous Items

Multi-Functional Wireless Broadband NAT Router (R1.97f2a)

ADMINISTRATOR's MAIN MENU   Status   Wizard   Logout

BASIC SETTING   **FORWARDING RULES**   SECURITY SETTING   ADVANCED SETTING   TOOLBOX

Virtual Server  
Special AP  
Miscellaneous

| Miscellaneous Items [ HELP ]                                            |                                   |                          |
|-------------------------------------------------------------------------|-----------------------------------|--------------------------|
| Item                                                                    | Setting                           | Enable                   |
| ▶ IP Address of DMZ Host                                                | 192.168.122. <input type="text"/> | <input type="checkbox"/> |
| ▶ Non-standard FTP port                                                 | <input type="text" value="0"/>    |                          |
| ▶ UPnP setting                                                          |                                   | <input type="checkbox"/> |
| <input type="button" value="Save"/> <input type="button" value="Undo"/> |                                   |                          |

#### IP Address of DMZ Host

DMZ (DeMilitarized Zone) Host is a host without the protection of firewall. It allows a computer to be exposed to unrestricted 2-way communication for Internet games, Video conferencing, Internet telephony and other special applications.

NOTE: This feature should be used only when needed.

#### Non-standard FTP port

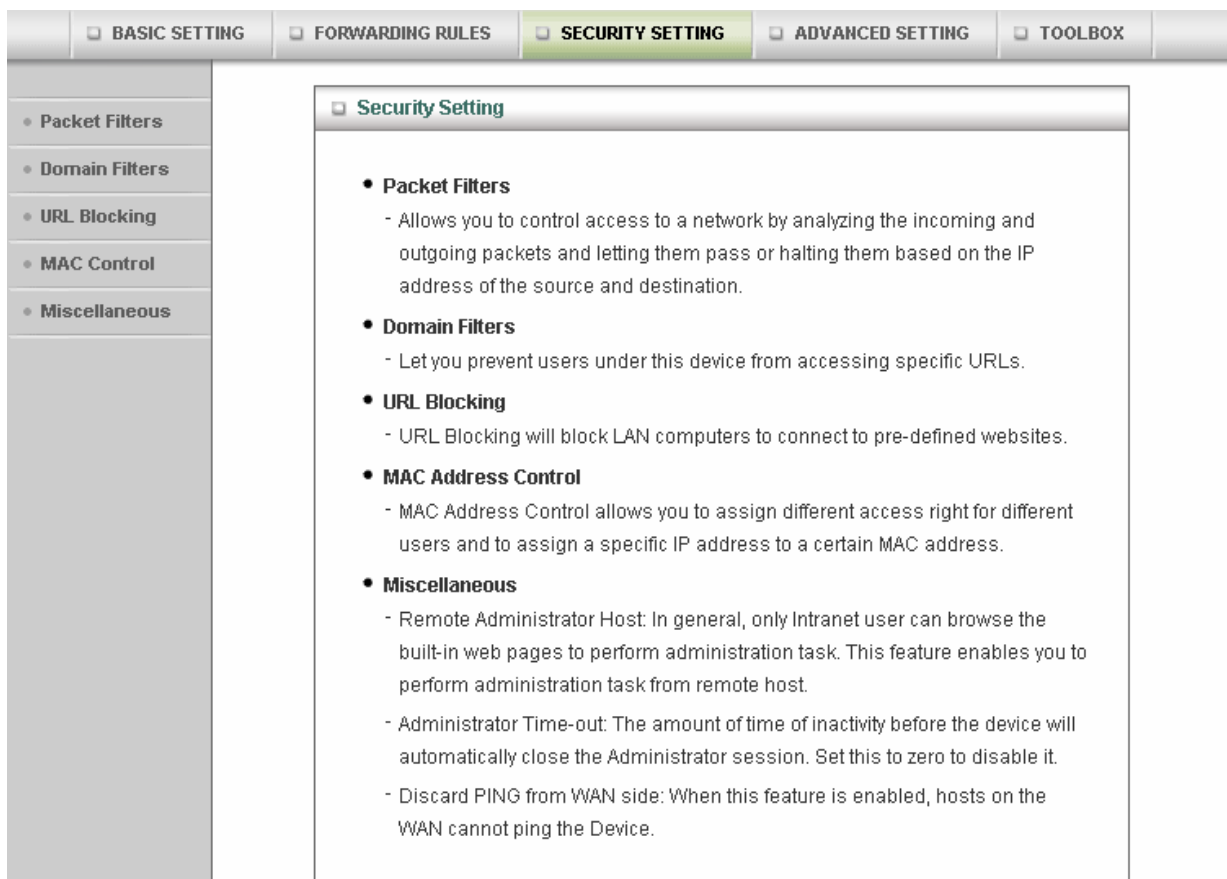
You have to configure this item if you want to access an FTP server whose port number is not 21. This setting will be lost after rebooting.

#### UpnP Setting

The device also supports this function. If the OS supports this function enable it, like Windows Xp. When the user gets IP from the device and will see icon as below:



## 4.6 Security Settings



## 4.6.1 Packet Filter

Multi-Functional Wireless Broadband NAT Router (R1.97f2a)

ADMINISTRATOR's MAIN MENU

Status

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BASIC SETTING

FORWARDING RULES

SECURITY SETTING

ADVANCED SETTING

TOOLBOX

Packet Filters

Domain Filters

URL Blocking

MAC Control

Miscellaneous

Outbound Packet Filter

[ HELP ]

| Item                                                                                                                                                                                                      | Setting                                     |                                             |                          |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------|--------------------------|------------------------|
| Outbound Filter                                                                                                                                                                                           | <input type="checkbox"/> Enable             |                                             |                          |                        |
| <div><div><input type="radio"/> Allow all to pass except those match the following rules.</div><div><input checked="" type="radio"/> Deny all to pass except those match the following rules.</div></div> |                                             |                                             |                          |                        |
| Schedule rule (00)Always <input type="button" value="Copy to ID"/> -- <input type="button" value="ID"/>                                                                                                   |                                             |                                             |                          |                        |
| ID                                                                                                                                                                                                        | Source IP : Ports                           | Destination IP : Ports                      | Enable                   | Schedule Rule#         |
| 1                                                                                                                                                                                                         | 192.168.122.13 : <input type="text"/>       | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |
| 2                                                                                                                                                                                                         | 192.168.122.18 : <input type="text"/>       | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |
| 3                                                                                                                                                                                                         | 192.168.122.226 : <input type="text"/>      | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |
| 4                                                                                                                                                                                                         | 192.168.122.218 : <input type="text"/>      | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |
| 5                                                                                                                                                                                                         | 192.168.122.229 : <input type="text"/>      | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |
| 6                                                                                                                                                                                                         | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |
| 7                                                                                                                                                                                                         | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |
| 8                                                                                                                                                                                                         | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |

Packet Filter enables you to control what packets are allowed to pass the router. Outbound filter applies on all outbound packets. However, Inbound filter applies on packets that destined to Virtual Servers or DMZ host only. You can select one of the two filtering policies:

1. Allow all to pass except those match the specified rules
2. Deny all to pass except those match the specified rules

You can specify 8 rules for each direction: inbound or outbound. For each rule, you can define the following:

- Source IP address
- Source port address
- Destination IP address
- Destination port address
- Protocol: TCP or UDP or both.
- Use Rule#

For source or destination IP address, you can define a single IP address (4.3.2.1) or a range of IP addresses (4.3.2.1-4.3.2.254). An empty implies all IP addresses.

For source or destination port, you can define a single port (80) or a range of ports (1000-1999). Add prefix "T" or "U" to specify TCP or UDP protocol. For example, T80, U53, U2000-2999. No prefix indicates both TCP and UDP are defined. An empty implies all port addresses. **Packet Filter** can work with **Scheduling Rules**, and give user more flexibility on Access control. For Detail, please refer to **Scheduling Rule**.

Each rule can be enabled or disabled individually.

Inbound Filter:

To enable **Inbound Packet Filter** click the check box next to **Enable** in the **Inbound Packet Filter** field.

Suppose you have SMTP Server (25), POP Server (110), Web Server (80), FTP Server (21), and News Server (119) defined in Virtual Server or DMZ Host.

**Example 1:**

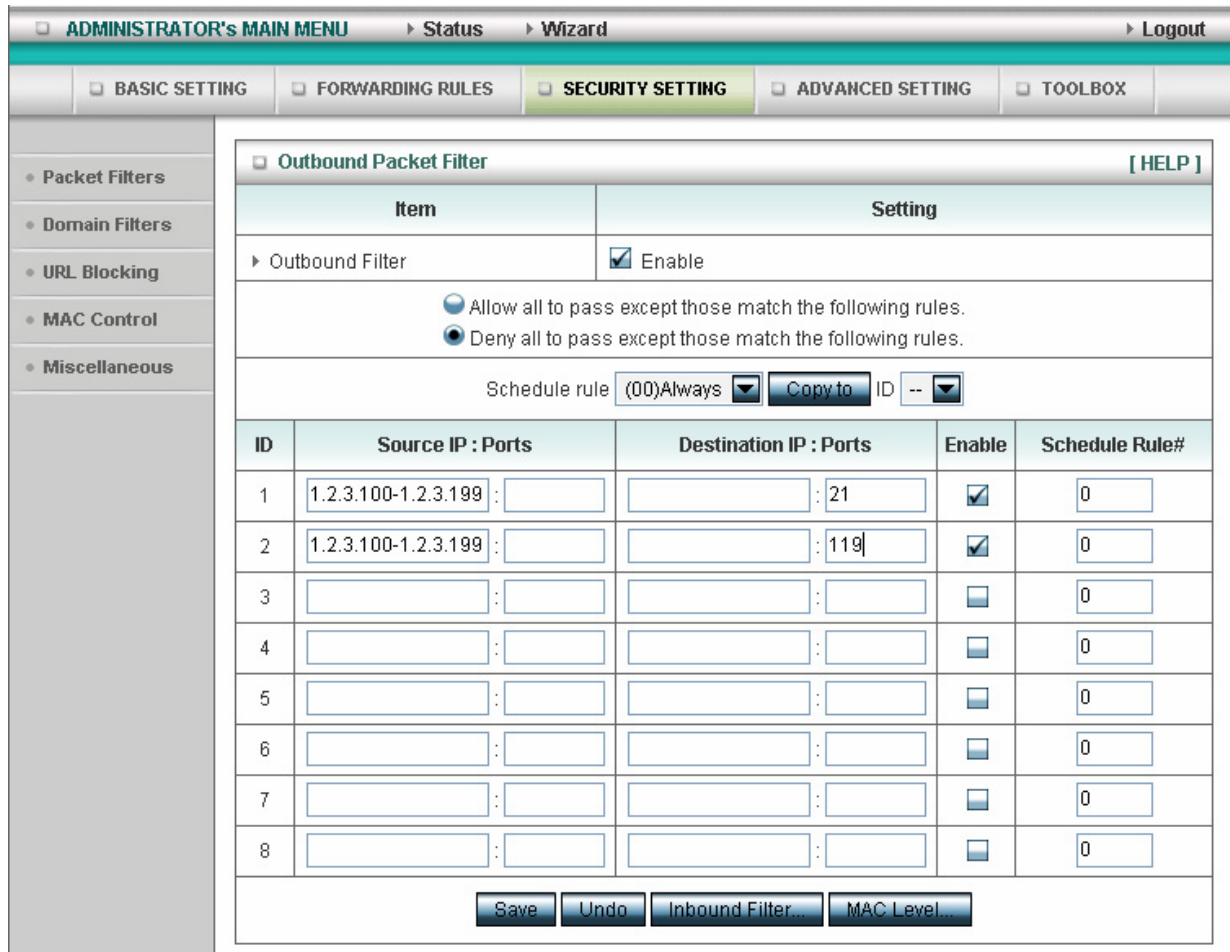
| BASIC SETTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             | FORWARDING RULES                            |                                     | SECURITY SETTING       |  | ADVANCED SETTING |  | TOOLBOX |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
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| <div> <div> <ul style="list-style-type: none"> <li>Packet Filters</li> <li>Domain Filters</li> <li>URL Blocking</li> <li>MAC Control</li> <li>Miscellaneous</li> </ul> </div> <div> <div> <div>Outbound Packet Filter [ HELP ]</div> <table border="1"> <thead> <tr> <th>Item</th> <th>Setting</th> </tr> </thead> <tbody> <tr> <td>Outbound Filter</td> <td><input checked="" type="checkbox"/> Enable</td> </tr> <tr> <td colspan="2"> <input type="radio"/> Allow all to pass except those match the following rules.<br/> <input checked="" type="radio"/> Deny all to pass except those match the following rules. </td> </tr> <tr> <td colspan="2"> Schedule rule (00)Always <input type="button" value="Copy to"/> ID -- <input type="button" value="ID"/> </td> </tr> <tr> <th>ID</th> <th>Source IP : Ports</th> <th>Destination IP : Ports</th> <th>Enable</th> <th>Schedule Rule#</th> </tr> <tr> <td>1</td> <td>1.2.3.100-1.2.3.149 : <input type="text"/></td> <td><input type="text"/> : 25-100</td> <td><input checked="" type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>2</td> <td>1.2.3.10-1.2.3.20 : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input checked="" type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>3</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>4</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>5</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>6</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>7</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>8</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> </tbody> </table> <div> <input type="button" value="Save"/> <input type="button" value="Undo"/> <input type="button" value="Inbound Filter..."/> <input type="button" value="MAC Level..."/> </div> </div> </div> </div> |                                             |                                             |                                     |                        |  |                  |  |         |  | Item | Setting | Outbound Filter | <input checked="" type="checkbox"/> Enable | <input type="radio"/> Allow all to pass except those match the following rules.<br><input checked="" type="radio"/> Deny all to pass except those match the following rules. |  | Schedule rule (00)Always <input type="button" value="Copy to"/> ID -- <input type="button" value="ID"/> |  | ID | Source IP : Ports | Destination IP : Ports | Enable | Schedule Rule# | 1 | 1.2.3.100-1.2.3.149 : <input type="text"/> | <input type="text"/> : 25-100 | <input checked="" type="checkbox"/> | 0 <input type="text"/> | 2 | 1.2.3.10-1.2.3.20 : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input checked="" type="checkbox"/> | 0 <input type="text"/> | 3 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 4 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 5 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 6 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 7 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 8 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |
| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Setting                                     |                                             |                                     |                        |  |                  |  |         |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| Outbound Filter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> Enable  |                                             |                                     |                        |  |                  |  |         |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
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| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.2.3.10-1.2.3.20 : <input type="text"/>    | <input type="text"/> : <input type="text"/> | <input checked="" type="checkbox"/> | 0 <input type="text"/> |  |                  |  |         |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |  |                  |  |         |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |  |                  |  |         |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |  |                  |  |         |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |  |                  |  |         |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |  |                  |  |         |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |  |                  |  |         |  |      |         |                 |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                            |                               |                                     |                        |   |                                          |                                             |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |

(1.2.3.100-1.2.3.149) They are allow to send mail (port 25), receive mail (port 110), and browse the Internet (port 80)

(1.2.3.10-1.2.3.20) They can do everything (block nothing)

Others are all blocked.

### Example 2:



**ADMINISTRATOR's MAIN MENU**    ▶ Status    ▶ Wizard    ▶ Logout

**BASIC SETTING**    **FORWARDING RULES**    **SECURITY SETTING**    ADVANCED SETTING    TOOLBOX

• Packet Filters  
• Domain Filters  
• URL Blocking  
• MAC Control  
• Miscellaneous

**Outbound Packet Filter** [ HELP ]

**Item**    **Setting**

▶ Outbound Filter    ☒ Enable

☐ Allow all to pass except those match the following rules.  
☒ Deny all to pass except those match the following rules.

Schedule rule: (00)Always    Copy to ID --

| ID | Source IP : Ports     | Destination IP : Ports | Enable                              | Schedule Rule# |
|----|-----------------------|------------------------|-------------------------------------|----------------|
| 1  | 1.2.3.100-1.2.3.199 : | : 21                   | <input checked="" type="checkbox"/> | 0              |
| 2  | 1.2.3.100-1.2.3.199 : | : 119                  | <input checked="" type="checkbox"/> | 0              |
| 3  | :                     | :                      | <input type="checkbox"/>            | 0              |
| 4  | :                     | :                      | <input type="checkbox"/>            | 0              |
| 5  | :                     | :                      | <input type="checkbox"/>            | 0              |
| 6  | :                     | :                      | <input type="checkbox"/>            | 0              |
| 7  | :                     | :                      | <input type="checkbox"/>            | 0              |
| 8  | :                     | :                      | <input type="checkbox"/>            | 0              |

Save    Undo    Inbound Filter...    MAC Level...

(1.2.3.100-1.2.3.119) They can do everything except read net news (port 119) and transfer files via FTP (port 21)

Others are all allowed.

After **Inbound Packet Filter** setting is configured, click the **save** button.

Outbound Filter:

To enable **Outbound Packet Filter** click the check box next to **Enable** in the **Outbound Packet Filter** field.

### Example 1:

| BASIC SETTING                                                                                                                                                                |                                             | FORWARDING RULES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     | SECURITY SETTING               |  | ADVANCED SETTING |  | TOOLBOX |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
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| <ul style="list-style-type: none"> <li>Packet Filters</li> <li>Domain Filters</li> <li>URL Blocking</li> <li>MAC Control</li> <li>Miscellaneous</li> </ul>                   |                                             | <div> <div>Inbound Packet Filter</div> <div>[ HELP ]</div> </div> <table border="1"> <thead> <tr> <th>Item</th> <th>Setting</th> </tr> </thead> <tbody> <tr> <td>Inbound Filter</td> <td><input checked="" type="checkbox"/> Enable</td> </tr> <tr> <td colspan="2"> <input checked="" type="radio"/> Allow all to pass except those match the following rules.<br/> <input type="radio"/> Deny all to pass except those match the following rules.                 </td> </tr> <tr> <td colspan="2">                     Schedule rule (00)Always <input type="button" value="Copy to ID"/> ID -- <input type="button" value="ID"/> </td> </tr> <tr> <th>ID</th> <th>Source IP : Ports</th> <th>Destination IP : Ports</th> <th>Enable</th> <th>Schedule Rule#</th> </tr> <tr> <td>1</td> <td>192.168.123.149 : <input type="text"/></td> <td><input type="text"/> : 25-100</td> <td><input checked="" type="checkbox"/></td> <td><input type="text" value="0"/></td> </tr> <tr> <td>2</td> <td>192.168.123.20 : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="text" value="0"/></td> </tr> <tr> <td>3</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td><input type="text" value="0"/></td> </tr> <tr> <td>4</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td><input type="text" value="0"/></td> </tr> <tr> <td>5</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td><input type="text" value="0"/></td> </tr> <tr> <td>6</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td><input type="text" value="0"/></td> </tr> <tr> <td>7</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td><input type="text" value="0"/></td> </tr> <tr> <td>8</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td><input type="text" value="0"/></td> </tr> </tbody> </table> <div> <input type="button" value="Save"/> <input type="button" value="Undo"/> <input type="button" value="Outbound Filter..."/> <input type="button" value="MAC Level..."/> </div> |                                     |                                |  |                  |  |         |  | Item | Setting | Inbound Filter | <input checked="" type="checkbox"/> Enable | <input checked="" type="radio"/> Allow all to pass except those match the following rules.<br><input type="radio"/> Deny all to pass except those match the following rules. |  | Schedule rule (00)Always <input type="button" value="Copy to ID"/> ID -- <input type="button" value="ID"/> |  | ID | Source IP : Ports | Destination IP : Ports | Enable | Schedule Rule# | 1 | 192.168.123.149 : <input type="text"/> | <input type="text"/> : 25-100 | <input checked="" type="checkbox"/> | <input type="text" value="0"/> | 2 | 192.168.123.20 : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input checked="" type="checkbox"/> | <input type="text" value="0"/> | 3 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | <input type="text" value="0"/> | 4 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | <input type="text" value="0"/> | 5 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | <input type="text" value="0"/> | 6 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | <input type="text" value="0"/> | 7 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | <input type="text" value="0"/> | 8 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | <input type="text" value="0"/> |
| Item                                                                                                                                                                         | Setting                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| Inbound Filter                                                                                                                                                               | <input checked="" type="checkbox"/> Enable  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| <input checked="" type="radio"/> Allow all to pass except those match the following rules.<br><input type="radio"/> Deny all to pass except those match the following rules. |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| Schedule rule (00)Always <input type="button" value="Copy to ID"/> ID -- <input type="button" value="ID"/>                                                                   |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| ID                                                                                                                                                                           | Source IP : Ports                           | Destination IP : Ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Enable                              | Schedule Rule#                 |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| 1                                                                                                                                                                            | 192.168.123.149 : <input type="text"/>      | <input type="text"/> : 25-100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input type="text" value="0"/> |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| 2                                                                                                                                                                            | 192.168.123.20 : <input type="text"/>       | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> | <input type="text" value="0"/> |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| 3                                                                                                                                                                            | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="text" value="0"/> |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| 4                                                                                                                                                                            | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="text" value="0"/> |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| 5                                                                                                                                                                            | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="text" value="0"/> |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| 6                                                                                                                                                                            | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="text" value="0"/> |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| 7                                                                                                                                                                            | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="text" value="0"/> |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |
| 8                                                                                                                                                                            | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/>            | <input type="text" value="0"/> |  |                  |  |         |  |      |         |                |                                            |                                                                                                                                                                              |  |                                                                                                            |  |    |                   |                        |        |                |   |                                        |                               |                                     |                                |   |                                       |                                             |                                     |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |   |                                             |                                             |                          |                                |

(192.168.123.100-192.168.123.149) They are allowed to send mail (port 25), receive mail (port 110), and browse Internet (port 80); port 53 (DNS) is necessary to resolve the domain name.

(192.168.123.10-192.168.123.20) They can do everything (block nothing)

Others are all blocked.

## Example 2:

| <input type="checkbox"/> BASIC SETTING <input type="checkbox"/> FORWARDING RULES <input checked="" type="checkbox"/> SECURITY SETTING <input type="checkbox"/> ADVANCED SETTING <input type="checkbox"/> TOOLBOX |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |                                     |                        |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
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| <ul style="list-style-type: none"> <li>• Packet Filters</li> <li>• Domain Filters</li> <li>• URL Blocking</li> <li>• MAC Control</li> <li>• Miscellaneous</li> </ul>                                             | <div> <input checked="" type="checkbox"/> Inbound Packet Filter           <span>[ HELP ]</span> </div> <table border="1"> <thead> <tr> <th>Item</th> <th>Setting</th> </tr> </thead> <tbody> <tr> <td>▶ Inbound Filter</td> <td><input checked="" type="checkbox"/> Enable</td> </tr> <tr> <td colspan="2"> <input checked="" type="radio"/> Allow all to pass except those match the following rules.<br/> <input type="radio"/> Deny all to pass except those match the following rules.           </td> </tr> <tr> <td colspan="2">           Schedule rule (00)Always <input type="button" value="Copy to ID"/> -- <input type="button" value="ID"/> </td> </tr> <tr> <th>ID</th> <th>Source IP : Ports</th> <th>Destination IP : Ports</th> <th>Enable</th> <th>Schedule Rule#</th> </tr> <tr> <td>1</td> <td>192.168.123.100 : <input type="text"/></td> <td><input type="text"/> : 21</td> <td><input checked="" type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>2</td> <td>192.168.123.119 : <input type="text"/></td> <td><input type="text"/> : 119</td> <td><input checked="" type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>3</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>4</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>5</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>6</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>7</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> <tr> <td>8</td> <td><input type="text"/> : <input type="text"/></td> <td><input type="text"/> : <input type="text"/></td> <td><input type="checkbox"/></td> <td>0 <input type="text"/></td> </tr> </tbody> </table> <div> <input type="button" value="Save"/> <input type="button" value="Undo"/> <input type="button" value="Outbound Filter..."/> <input type="button" value="MAC Level..."/> </div> | Item                                        | Setting                             | ▶ Inbound Filter       | <input checked="" type="checkbox"/> Enable | <input checked="" type="radio"/> Allow all to pass except those match the following rules.<br><input type="radio"/> Deny all to pass except those match the following rules. |  | Schedule rule (00)Always <input type="button" value="Copy to ID"/> -- <input type="button" value="ID"/> |  | ID | Source IP : Ports | Destination IP : Ports | Enable | Schedule Rule# | 1 | 192.168.123.100 : <input type="text"/> | <input type="text"/> : 21 | <input checked="" type="checkbox"/> | 0 <input type="text"/> | 2 | 192.168.123.119 : <input type="text"/> | <input type="text"/> : 119 | <input checked="" type="checkbox"/> | 0 <input type="text"/> | 3 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 4 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 5 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 6 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 7 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> | 8 | <input type="text"/> : <input type="text"/> | <input type="text"/> : <input type="text"/> | <input type="checkbox"/> | 0 <input type="text"/> |
| Item                                                                                                                                                                                                             | Setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |                                     |                        |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| ▶ Inbound Filter                                                                                                                                                                                                 | <input checked="" type="checkbox"/> Enable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                     |                        |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| <input checked="" type="radio"/> Allow all to pass except those match the following rules.<br><input type="radio"/> Deny all to pass except those match the following rules.                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |                                     |                        |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| Schedule rule (00)Always <input type="button" value="Copy to ID"/> -- <input type="button" value="ID"/>                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |                                     |                        |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| ID                                                                                                                                                                                                               | Source IP : Ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Destination IP : Ports                      | Enable                              | Schedule Rule#         |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 1                                                                                                                                                                                                                | 192.168.123.100 : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="text"/> : 21                   | <input checked="" type="checkbox"/> | 0 <input type="text"/> |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 2                                                                                                                                                                                                                | 192.168.123.119 : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="text"/> : 119                  | <input checked="" type="checkbox"/> | 0 <input type="text"/> |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 3                                                                                                                                                                                                                | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 4                                                                                                                                                                                                                | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 5                                                                                                                                                                                                                | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 6                                                                                                                                                                                                                | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 7                                                                                                                                                                                                                | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |
| 8                                                                                                                                                                                                                | <input type="text"/> : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="text"/> : <input type="text"/> | <input type="checkbox"/>            | 0 <input type="text"/> |                                            |                                                                                                                                                                              |  |                                                                                                         |  |    |                   |                        |        |                |   |                                        |                           |                                     |                        |   |                                        |                            |                                     |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |   |                                             |                                             |                          |                        |

(192.168.123.100-192.168.123.119) They can do everything except read net news (port 119) and transfer files via FTP (port 21)

Others are allowed

After **Outbound Packet Filter** setting is configured, click the **save** button.

## 4.6.2 Domain Filter

ADMINISTRATOR's MAIN MENU

Status

Wizard

Logout

BASIC SETTING

FORWARDING RULES

SECURITY SETTING

ADVANCED SETTING

TOOLBOX

• Packet Filters

• Domain Filters

• URL Blocking

• MAC Control

• Miscellaneous

Domain Filter [ HELP ]

| Item                         | Setting                                                               |
|------------------------------|-----------------------------------------------------------------------|
| Domain Filter                | <input checked="" type="checkbox"/> Enable                            |
| Log DNS Query                | <input checked="" type="checkbox"/> Enable                            |
| Privilege IP Addresses Range | From <input type="text" value="0"/> To <input type="text" value="0"/> |

| ID | Domain Suffix                            | Action                                                     | Enable                   |
|----|------------------------------------------|------------------------------------------------------------|--------------------------|
| 1  | <input type="text" value="www.msn.com"/> | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> |
| 2  | <input type="text"/>                     | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> |
| 3  | <input type="text"/>                     | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> |
| 4  | <input type="text"/>                     | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> |
| 5  | <input type="text"/>                     | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> |
| 6  | <input type="text"/>                     | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> |
| 7  | <input type="text"/>                     | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> |
| 8  | <input type="text"/>                     | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> |
| 9  | <input type="text"/>                     | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> |

### Domain Filter

Let you prevent users under this device from accessing specific URLs.

#### Domain Filter Enable

Check if you want to enable Domain Filter.

#### Log DNS Query

Check if you want to log the action when someone accesses the specific URLs.

#### Privilege IP Addresses Range

Setting a group of hosts and privilege these hosts to access network without restriction.

#### Domain Suffix

A suffix of URL to be restricted. For example, ".com", "xxx.com".

#### Action

When someone is accessing the URL met the domain-suffix, what kind of action you want.

Check drop to block the access. Check log to log these access.

#### Enable

Check to enable each rule.

### Example:

| <input type="checkbox"/> BASIC SETTING <input type="checkbox"/> FORWARDING RULES <input checked="" type="checkbox"/> SECURITY SETTING <input type="checkbox"/> ADVANCED SETTING <input type="checkbox"/> TOOLBOX |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                        |                                                                                  |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------|-----------------|--------------------------------------------|-----------------|--------------------------------------------|--------------------------------|------------------------------------------------------------------------|----|---------------|--------|--------|---|------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------|---|-------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|---|---------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|---|----------------------|------------------------------------------------------------|--------------------------|---|----------------------|------------------------------------------------------------|--------------------------|---|----------------------|------------------------------------------------------------|--------------------------|---|----------------------|------------------------------------------------------------|--------------------------|---|----------------------|------------------------------------------------------------|--------------------------|---|----------------------|------------------------------------------------------------|--------------------------|----|----------------|------------------------------------------------------------|---|
| <ul style="list-style-type: none"> <li>• Packet Filters</li> <li>• Domain Filters</li> <li>• URL Blocking</li> <li>• MAC Control</li> <li>• Miscellaneous</li> </ul>                                             | <div> <input checked="" type="checkbox"/> Domain Filter           <span>[ HELP ]</span> </div> <table border="1"> <thead> <tr> <th>Item</th> <th>Setting</th> </tr> </thead> <tbody> <tr> <td>▶ Domain Filter</td> <td><input checked="" type="checkbox"/> Enable</td> </tr> <tr> <td>▶ Log DNS Query</td> <td><input checked="" type="checkbox"/> Enable</td> </tr> <tr> <td>▶ Privilege IP Addresses Range</td> <td>From <input type="text" value="1"/> To <input type="text" value="20"/></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>ID</th> <th>Domain Suffix</th> <th>Action</th> <th>Enable</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><input type="text" value="www.msn.com"/></td> <td><input checked="" type="checkbox"/> Drop <input checked="" type="checkbox"/> Log</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>2</td> <td><input type="text" value="www.sina.com"/></td> <td><input type="checkbox"/> Drop <input checked="" type="checkbox"/> Log</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>3</td> <td><input type="text" value="www.google.com"/></td> <td><input checked="" type="checkbox"/> Drop <input type="checkbox"/> Log</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>4</td> <td><input type="text"/></td> <td><input type="checkbox"/> Drop <input type="checkbox"/> Log</td> <td><input type="checkbox"/></td> </tr> <tr> <td>5</td> <td><input type="text"/></td> <td><input type="checkbox"/> Drop <input type="checkbox"/> Log</td> <td><input type="checkbox"/></td> </tr> <tr> <td>6</td> <td><input type="text"/></td> <td><input type="checkbox"/> Drop <input type="checkbox"/> Log</td> <td><input type="checkbox"/></td> </tr> <tr> <td>7</td> <td><input type="text"/></td> <td><input type="checkbox"/> Drop <input type="checkbox"/> Log</td> <td><input type="checkbox"/></td> </tr> <tr> <td>8</td> <td><input type="text"/></td> <td><input type="checkbox"/> Drop <input type="checkbox"/> Log</td> <td><input type="checkbox"/></td> </tr> <tr> <td>9</td> <td><input type="text"/></td> <td><input type="checkbox"/> Drop <input type="checkbox"/> Log</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10</td> <td>* (all others)</td> <td><input type="checkbox"/> Drop <input type="checkbox"/> Log</td> <td>-</td> </tr> </tbody> </table> <div> <input type="button" value="Save"/> <input type="button" value="Undo"/> </div> |                                                                        | Item                                                                             | Setting                             | ▶ Domain Filter | <input checked="" type="checkbox"/> Enable | ▶ Log DNS Query | <input checked="" type="checkbox"/> Enable | ▶ Privilege IP Addresses Range | From <input type="text" value="1"/> To <input type="text" value="20"/> | ID | Domain Suffix | Action | Enable | 1 | <input type="text" value="www.msn.com"/> | <input checked="" type="checkbox"/> Drop <input checked="" type="checkbox"/> Log | <input checked="" type="checkbox"/> | 2 | <input type="text" value="www.sina.com"/> | <input type="checkbox"/> Drop <input checked="" type="checkbox"/> Log | <input checked="" type="checkbox"/> | 3 | <input type="text" value="www.google.com"/> | <input checked="" type="checkbox"/> Drop <input type="checkbox"/> Log | <input checked="" type="checkbox"/> | 4 | <input type="text"/> | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> | 5 | <input type="text"/> | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> | 6 | <input type="text"/> | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> | 7 | <input type="text"/> | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> | 8 | <input type="text"/> | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> | 9 | <input type="text"/> | <input type="checkbox"/> Drop <input type="checkbox"/> Log | <input type="checkbox"/> | 10 | * (all others) | <input type="checkbox"/> Drop <input type="checkbox"/> Log | - |
|                                                                                                                                                                                                                  | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Setting                                                                |                                                                                  |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
|                                                                                                                                                                                                                  | ▶ Domain Filter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> Enable                             |                                                                                  |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
|                                                                                                                                                                                                                  | ▶ Log DNS Query                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> Enable                             |                                                                                  |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
|                                                                                                                                                                                                                  | ▶ Privilege IP Addresses Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | From <input type="text" value="1"/> To <input type="text" value="20"/> |                                                                                  |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
|                                                                                                                                                                                                                  | ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Domain Suffix                                                          | Action                                                                           | Enable                              |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
|                                                                                                                                                                                                                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="text" value="www.msn.com"/>                               | <input checked="" type="checkbox"/> Drop <input checked="" type="checkbox"/> Log | <input checked="" type="checkbox"/> |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
|                                                                                                                                                                                                                  | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="text" value="www.sina.com"/>                              | <input type="checkbox"/> Drop <input checked="" type="checkbox"/> Log            | <input checked="" type="checkbox"/> |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
|                                                                                                                                                                                                                  | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="text" value="www.google.com"/>                            | <input checked="" type="checkbox"/> Drop <input type="checkbox"/> Log            | <input checked="" type="checkbox"/> |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
|                                                                                                                                                                                                                  | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="text"/>                                                   | <input type="checkbox"/> Drop <input type="checkbox"/> Log                       | <input type="checkbox"/>            |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
| 5                                                                                                                                                                                                                | <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Drop <input type="checkbox"/> Log             | <input type="checkbox"/>                                                         |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
| 6                                                                                                                                                                                                                | <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Drop <input type="checkbox"/> Log             | <input type="checkbox"/>                                                         |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
| 7                                                                                                                                                                                                                | <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Drop <input type="checkbox"/> Log             | <input type="checkbox"/>                                                         |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
| 8                                                                                                                                                                                                                | <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Drop <input type="checkbox"/> Log             | <input type="checkbox"/>                                                         |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
| 9                                                                                                                                                                                                                | <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Drop <input type="checkbox"/> Log             | <input type="checkbox"/>                                                         |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |
| 10                                                                                                                                                                                                               | * (all others)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> Drop <input type="checkbox"/> Log             | -                                                                                |                                     |                 |                                            |                 |                                            |                                |                                                                        |    |               |        |        |   |                                          |                                                                                  |                                     |   |                                           |                                                                       |                                     |   |                                             |                                                                       |                                     |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |   |                      |                                                            |                          |    |                |                                                            |   |

In this example:

1. URL include “www.msn.com” will be blocked, and the action will be record in log-file.
2. URL include “www.sina.com” will not be blocked, but the action will be record in log-file.
3. URL include “www.google.com” will be blocked, but the action will not be record in log-file.
4. IP address X.X.X.1~ X.X.X.20 can access network without restriction.

### 4.6.3 URL Blocking

| URL Blocking [ HELP ]                                                   |                      |                                 |
|-------------------------------------------------------------------------|----------------------|---------------------------------|
| Item                                                                    |                      | Setting                         |
| ▶ URL Blocking                                                          |                      | <input type="checkbox"/> Enable |
| ID                                                                      | URL                  | Enable                          |
| 1                                                                       | <input type="text"/> | <input type="checkbox"/>        |
| 2                                                                       | <input type="text"/> | <input type="checkbox"/>        |
| 3                                                                       | <input type="text"/> | <input type="checkbox"/>        |
| 4                                                                       | <input type="text"/> | <input type="checkbox"/>        |
| 5                                                                       | <input type="text"/> | <input type="checkbox"/>        |
| 6                                                                       | <input type="text"/> | <input type="checkbox"/>        |
| 7                                                                       | <input type="text"/> | <input type="checkbox"/>        |
| 8                                                                       | <input type="text"/> | <input type="checkbox"/>        |
| 9                                                                       | <input type="text"/> | <input type="checkbox"/>        |
| 10                                                                      | <input type="text"/> | <input type="checkbox"/>        |
| <input type="button" value="Save"/> <input type="button" value="Undo"/> |                      |                                 |

**URL Blocking** will block LAN computers to connect to pre-defined Websites.

The major difference between “Domain filter” and “URL Blocking” is Domain filter require user to input suffix (like .com or .org, etc), while URL Blocking require user to input a keyword only. In other words, Domain filter can block specific website, while URL Blocking can block hundreds of websites by simply a **keyword**.

#### URL Blocking Enable

Checked if you want to enable URL Blocking.

#### URL

If any part of the Website's URL matches the pre-defined word, the connection will be blocked.

For example, you can use pre-defined word "sex" to block all websites if their URLs contain pre-defined word "sex".

#### Enable

Checked to enable each rule.

ADMINISTRATOR's MAIN MENU
Status
Wizard
Logout

BASIC SETTING
FORWARDING RULES
SECURITY SETTING
ADVANCED SETTING
TOOLBOX

- Packet Filters
- Domain Filters
- URL Blocking
- MAC Control
- Miscellaneous

URL Blocking
[ HELP ]

| Item         |       | Setting                                    |
|--------------|-------|--------------------------------------------|
| URL Blocking |       | <input checked="" type="checkbox"/> Enable |
| ID           | URL   | Enable                                     |
| 1            | msn   | <input checked="" type="checkbox"/>        |
| 2            | sina  | <input checked="" type="checkbox"/>        |
| 3            | cnnsi | <input checked="" type="checkbox"/>        |
| 4            | espn  | <input checked="" type="checkbox"/>        |
| 5            |       | <input type="checkbox"/>                   |
| 6            |       | <input type="checkbox"/>                   |
| 7            |       | <input type="checkbox"/>                   |
| 8            |       | <input type="checkbox"/>                   |
| 9            |       | <input type="checkbox"/>                   |
| 10           |       | <input type="checkbox"/>                   |

Save
Undo

In this example:

1. URL include “msn” will be blocked, and the action will be record in log-file.
2. URL include “sina” will be blocked, but the action will be record in log-file
3. URL include “cnnsi” will not be blocked, but the action will be record in log-file.
4. URL include “espn” will be blocked, but the action will be record in log-file

## 4.6.4 MAC Address Control

Multi-Functional Wireless Broadband NAT Router (R1.97f2a)

ADMINISTRATOR's MAIN MENU

Status

Wizard

Logout

BASIC SETTING

FORWARDING RULES

SECURITY SETTING

ADVANCED SETTING

TOOLBOX

Packet Filters

Domain Filters

URL Blocking

MAC Control

Miscellaneous

MAC Address Control

[ HELP ]

| Item                                                                                                                                                                       | Setting                                                                                                                                                  |                                               |                                     |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------|--------------------------|
| MAC Address Control                                                                                                                                                        | <input checked="" type="checkbox"/> Enable                                                                                                               |                                               |                                     |                          |
| <input checked="" type="checkbox"/> Connection control                                                                                                                     | Wireless and wired clients with <b>C</b> checked can connect to this device; and <input type="text" value="deny"/> unspecified MAC addresses to connect. |                                               |                                     |                          |
| <input type="checkbox"/> Association control                                                                                                                               | Wireless clients with <b>A</b> checked can associate to the wireless LAN; and <input type="text" value="deny"/> unspecified MAC addresses to associate.  |                                               |                                     |                          |
| DHCP clients <input type="text" value="--- Select one ---"/> <input type="button" value="Copy to"/> ID <input type="text" value="--"/>                                     |                                                                                                                                                          |                                               |                                     |                          |
| ID                                                                                                                                                                         | MAC Address                                                                                                                                              | IP Address                                    | C                                   | A                        |
| 1                                                                                                                                                                          | <input type="text" value="00-90-CC-1D-9D-40"/>                                                                                                           | 192.168.122. <input type="text" value="13"/>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2                                                                                                                                                                          | <input type="text" value="00-50-BA-24-05-E7"/>                                                                                                           | 192.168.122. <input type="text" value="18"/>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3                                                                                                                                                                          | <input type="text" value="00-90-CC-15-79-DC"/>                                                                                                           | 192.168.122. <input type="text" value="218"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4                                                                                                                                                                          | <input type="text" value="00-50-18-FF-12-34"/>                                                                                                           | 192.168.122. <input type="text" value="226"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <div><input type="button" value="=&lt; Previous"/> <input type="button" value="Next &gt;="/> <input type="button" value="Save"/> <input type="button" value="Undo"/></div> |                                                                                                                                                          |                                               |                                     |                          |

MAC Address Control allows you to assign different access right for different users and to assign a specific IP address to a certain MAC address.

**MAC Address Control** Check "Enable" to enable the "MAC Address Control". All of the settings in this page will take effect only when "Enable" is checked.

**Connection control** Check "Connection control" to enable the controlling of which wired and wireless clients can connect to this device. If a client is denied to connect to this device, it means the client can't access to the Internet either. Choose "allow" or "deny" to allow or deny the clients, whose MAC addresses are not in the "Control table" (please see below), to connect to this device.

**Association control** Check "Association control" to enable the controlling of which wireless client can associate to the wireless LAN. If a client is denied to associate to the wireless LAN, it means the client can't send or receive any data

via this device. Choose "allow" or "deny" to allow or deny the clients, whose MAC addresses are not in the "Control table", to associate to the wireless LAN.

#### Control table

| ID | MAC Address          | IP Address                        | C                        | A                        |
|----|----------------------|-----------------------------------|--------------------------|--------------------------|
| 9  | <input type="text"/> | 192.168.122. <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 | <input type="text"/> | 192.168.122. <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 | <input type="text"/> | 192.168.122. <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | <input type="text"/> | 192.168.122. <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |

"Control table" is the table at the bottom of the "MAC Address Control" page. Each row of this table indicates the MAC address and the expected IP address mapping of a client. There are four columns in this table:

|                    |                                                                                                                                 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>MAC Address</b> | MAC address indicates a specific client.                                                                                        |
| <b>IP Address</b>  | Expected IP address of the corresponding client. Keep it empty if you don't care its IP address.                                |
| <b>C</b>           | When " <b>Connection control</b> " is checked, check "C" will allow the corresponding client to connect to this device.         |
| <b>A</b>           | When " <b>Association control</b> " is checked, check "A" will allow the corresponding client to associate to the wireless LAN. |

In this page, we provide the following Combobox and button to help you to input the MAC address.

DHCP clients

ID

You can select a specific client in the "DHCP clients" Combobox, and then click on the "Copy to" button to copy the MAC address of the client you select to the ID selected in the "ID" Combobox.

#### Previous page and Next Page

To make this setup page simple and clear, we have divided the "Control table" into several pages. You can use these buttons to navigate to different pages.

**Example:**

**Multi-Functional Wireless Broadband NAT Router (R1.97f2a)**

☐ ADMINISTRATOR's MAIN MENU    ▶ Status    ▶ Wizard    ▶ Logout

☐ BASIC SETTING    ☐ FORWARDING RULES    ☒ SECURITY SETTING    ☐ ADVANCED SETTING    ☐ TOOLBOX

- Packet Filters
- Domain Filters
- URL Blocking
- **MAC Control**
- Miscellaneous

☒ **MAC Address Control** [ HELP ]

| Item                                                                                                                                                                   | Setting                                                                                                                                                   |                                               |                                     |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------|-------------------------------------|
| ▶ MAC Address Control                                                                                                                                                  | <input checked="" type="checkbox"/> Enable                                                                                                                |                                               |                                     |                                     |
| <input checked="" type="checkbox"/> Connection control                                                                                                                 | Wireless and wired clients with <b>C</b> checked can connect to this device; and <input type="text" value="allow"/> unspecified MAC addresses to connect. |                                               |                                     |                                     |
| <input checked="" type="checkbox"/> Association control                                                                                                                | Wireless clients with <b>A</b> checked can associate to the wireless LAN; and <input type="text" value="deny"/> unspecified MAC addresses to associate.   |                                               |                                     |                                     |
| DHCP clients <input type="text" value="--- Select one ---"/> <input type="button" value="Copy to"/> ID <input type="text" value="--"/>                                 |                                                                                                                                                           |                                               |                                     |                                     |
| ID                                                                                                                                                                     | MAC Address                                                                                                                                               | IP Address                                    | C                                   | A                                   |
| 9                                                                                                                                                                      | <input type="text" value="00-12-34-56-78-90"/>                                                                                                            | 192.168.122. <input type="text" value="100"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10                                                                                                                                                                     | <input type="text" value="00-12-34-56-78-92"/>                                                                                                            | 192.168.122. <input type="text"/>             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11                                                                                                                                                                     | <input type="text" value="00-09-76-54-32-10"/>                                                                                                            | 192.168.122. <input type="text" value="101"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 12                                                                                                                                                                     | <input type="text"/>                                                                                                                                      | 192.168.122. <input type="text"/>             | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="button" value=" &lt;&lt; Previous"/> <input type="button" value="Next &gt;&gt;"/> <input type="button" value="Save"/> <input type="button" value="Undo"/> |                                                                                                                                                           |                                               |                                     |                                     |

In this scenario, there are three clients listed in the Control Table. Clients 1 and 2 are wireless, and client 3 is wired.

- 1.The "MAC Address Control" function is enabled.
- 2."Connection control" is enabled, and all of the wired and wireless clients not listed in the "Control table" are "allowed" to connect to this device.
- 3."Association control" is enabled, and all of the wireless clients not listed in the "Control table" are "denied" to associate to the wireless LAN.
- 4.Clients 1 and 3 have fixed IP addresses either from the DHCP server of this device or manually assigned:

ID 1 - "00-12-34-56-78-90" --> 192.168.122.100

ID 3 - "00-98-76-54-32-10" --> 192.168.122.101

Client 2 will obtain its IP address from the IP Address pool specified in the "DHCP Server" page or can use a manually assigned static IP address.

If, for example, client 3 tries to use an IP address different from the address listed in the Control table (192.168.122.101), it will be denied to connect to this device.

5. Clients 2 and 3 and other wired clients with a MAC address unspecified in the Control table are all allowed to connect to this device. But client 1 is denied to connect to this device.
6. Clients 1 and 2 are allowed to associate to the wireless LAN, but a wireless client with a MAC address not specified in the Control table is denied to associate to the wireless LAN. Client 3 is a wired client and so is not affected by Association control.

#### 4.6.5 Miscellaneous Items

**Multi-Functional Wireless Broadband NAT Router (R1.97f2a)**

ADMINISTRATOR's MAIN MENU   Status   Wizard   Logout

BASIC SETTING   FORWARDING RULES   **SECURITY SETTING**   ADVANCED SETTING   TOOLBOX

Packet Filters  
Domain Filters  
URL Blocking  
MAC Control  
Miscellaneous

**Miscellaneous Items** [ HELP ]

| Item                               | Setting                    | Enable                              |
|------------------------------------|----------------------------|-------------------------------------|
| ▶ Remote Administrator Host / Port | 0.0.0.0 / 8089             | <input checked="" type="checkbox"/> |
| ▶ Administrator Time-out           | 600 seconds (0 to disable) |                                     |
| ▶ Discard PING from WAN side       |                            | <input type="checkbox"/>            |
| ▶ SPI mode                         |                            | <input type="checkbox"/>            |
| ▶ DoS Attack Detection             |                            | <input type="checkbox"/>            |

Save Undo

##### Remote Administrator Host/Port

In general, only Intranet user can browse the built-in web pages to perform administration task. This feature enables you to perform administration task from remote host. If this feature is enabled, only the specified IP address can perform remote administration. If the specified IP address is 0.0.0.0, any host can connect to this product to perform administration task. You can use subnet mask bits "/nn" notation to specify a group of trusted IP addresses. For example, "10.1.2.0/24".

**NOTE:** When Remote Administration is enabled, the web server port will be shifted to 88. You can change web server port to other port, too.

##### Administrator Time-out

The time of no activity to logout automatically. Set it to zero to disable this feature.

##### Discard PING from WAN side

When this feature is enabled, any host on the WAN cannot ping this product.

##### SPI Mode

When this feature is enabled, the router will record the packet information pass through the router like

IP address, port address, ACK, SEQ number and so on. And the router will check every incoming packet to detect if this packet is valid.

### DoS Attack Detection

When this feature is enabled, the router will detect and log the DoS attack comes from the Internet. Currently, the router can detect the following DoS attack: SYN Attack, WinNuke, Port Scan, Ping of Death, Land Attack etc.

## 4.7 Advanced Settings

The screenshot displays the web interface of a Multi-Functional Wireless Broadband NAT Router (R1.97f2a). The top navigation bar includes links for ADMINISTRATOR's MAIN MENU, Status, Wizard, and Logout. Below this, a secondary menu highlights the ADVANCED SETTING tab, alongside BASIC SETTING, FORWARDING RULES, SECURITY SETTING, and TOOLBOX. On the left side, a vertical sidebar lists various configuration options: System Time, System Log, Dynamic DNS, SNMP, Routing, and Schedule Rule. The main content area, titled 'Advanced Setting', provides detailed descriptions for each of these features:

- System Time**
  - Allow you to set device time manually or consult network time from NTP server.
- System Log**
  - Send system log to a dedicated host or email to specific receipts.
- Dynamic DNS**
  - To host your server on a changing IP address, you have to use dynamic domain name service (DDNS).
- SNMP**
  - Gives a user the capability to remotely manage a computer network by polling and setting terminal values and monitoring network events.
- Routing**
  - If you have more than one routers and subnets, you may want to enable routing table to allow packets to find proper routing path and allow different subnets to communicate with each other.
- Schedule Rule**
  - Apply schedule rules to Packet Filters and Virtual Server.