

BUSINESS GATEWAY AR129

PORT FORWARDING INSTRUCTIONS

Toll Fraud Liability

Be advised that certain security risks are inherent in the use of any telecommunications or networking equipment, including but not limited to, toll fraud, Denial of Service (DOS) attacks, loss or theft of data, and the unauthorized or illegal use of said equipment. Commander offers no warranties, either express or implied, regarding the prevention, detection, or deterrence of toll fraud, networking attacks, or unauthorized, illegal, or improper use of Commander-supplied equipment or software. Therefore, Commander is not liable for any losses or damages resulting from such fraud, attack, or improper use, including, but not limited to, human and data privacy, intellectual property, material assets, financial resources, labour and legal costs.

Ultimately, the responsibility for securing your telecommunication and networking equipment rests with you and you are encouraged to review documentation regarding available security measures, their configuration and implementation and to test such features as is necessary for your network

Disclaimers

The sample details used in this document are for illustrative purpose only and may vary for each individual customer depending on the customer's requirements. It should not be relied upon by any person as being complete or accurate.

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Port Forwarding instructions

These instructions are to enable you to configure the Port Forwarding for the AR129 Business Gateway. The Firefox Browser was used for this guide, other browsers may differ slightly in the look and feel although similar steps will be required.

We recommend the use of Firefox or Chrome in the configuration of the Business Gateway AR129.

Browse to the device

1. Type the URL into a Browser and press enter.

<http://192.168.11.1>

Note: If you have changed the IP Address of the gateway, you will need to use the new IP Address.

A security warning will be displayed.

2. Click **Details**.



This site is not secure

This might mean that someone's trying to trick you or steal any information that you send to the server. You should close this site immediately.

[Go to your Start page](#)

[Details](#)

3. Click **Go on to the webpage**. (Not recommended)

The Router login page will be displayed.



This site is not secure

This might mean that someone's trying to trick you or steal any information that you send to the server. You should close this site immediately.

[Go to your Start page](#)

[Details](#)

Your PC doesn't trust this website's security certificate.
The hostname in the website's security certificate differs from the website you are trying to visit.

Error Code: DLG_FLAGS_INVALID_CA
DLG_FLAGS_SEC_CERT_CN_INVALID

[Go on to the webpage \(Not recommended\)](#)

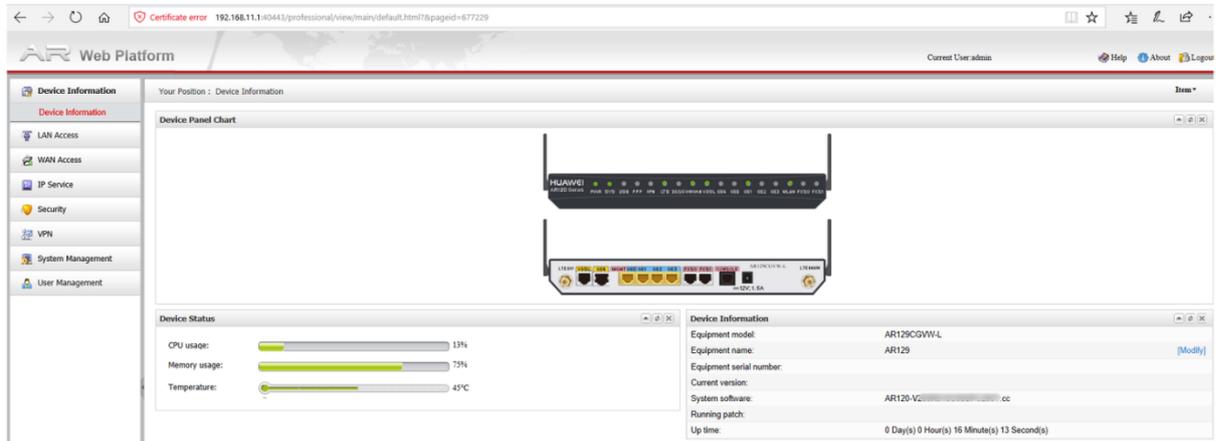
Login to Router

1. Enter the Default username: **admin**.
2. Enter the Default password: **password@admin**.
3. Click  .

Note: If you have changed the password of the gateway (recommended), you will need to use the new password.



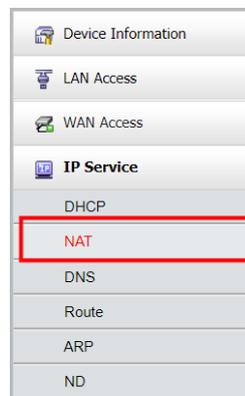
The Device Information page is displayed.



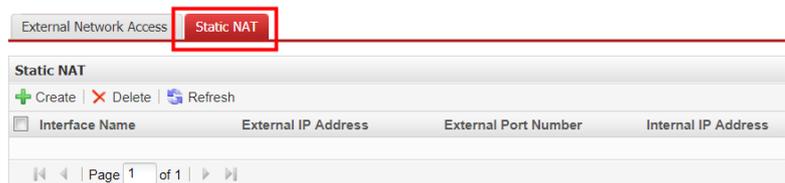
4. Click **IP service** from the left pane.

The DHCP item is selected by default.

From here, select NAT.

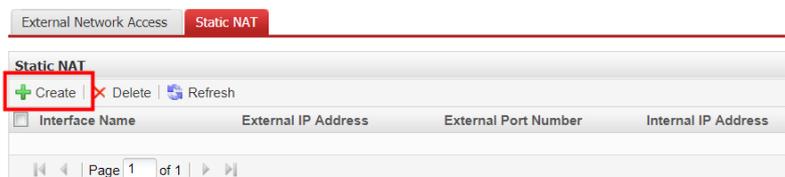


5. Select the **Static NAT** tab.

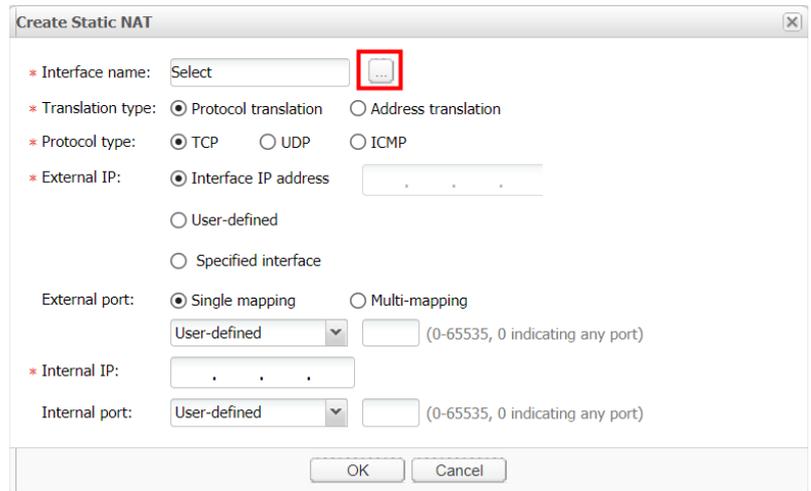


Configure Port Forwarding

1. Click **+ Create**.



- Click the ellipses  button next to **Interface name**.



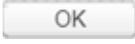
The 'Create Static NAT' dialog box contains the following fields and options:

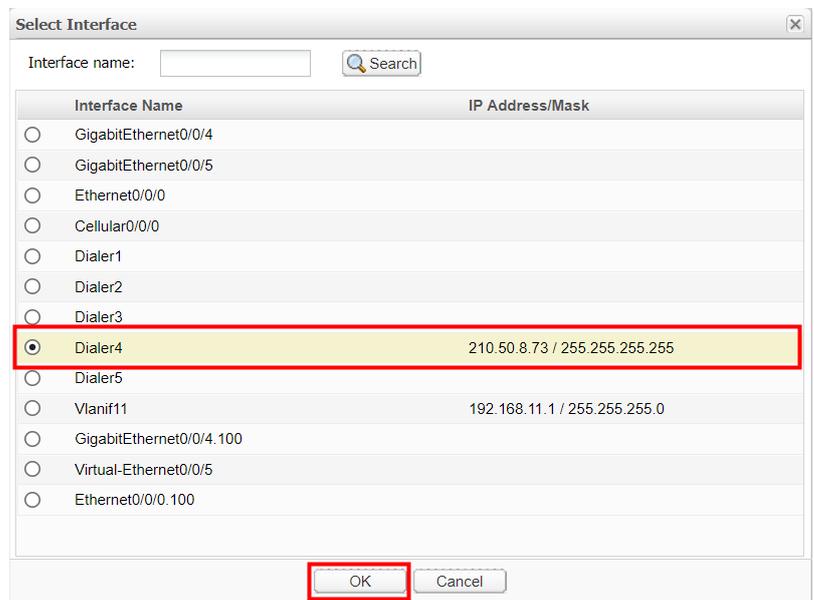
- Interface name:** A dropdown menu with 'Select' and an ellipses button (highlighted with a red box).
- Translation type:** Radio buttons for 'Protocol translation' (selected) and 'Address translation'.
- Protocol type:** Radio buttons for 'TCP' (selected), 'UDP', and 'ICMP'.
- External IP:** Radio buttons for 'Interface IP address' (selected) and 'User-defined'. Below it is a 'Specified interface' radio button.
- External port:** Radio buttons for 'Single mapping' (selected) and 'Multi-mapping'. Below it is a dropdown menu set to 'User-defined' and a text box containing '(0-65535, 0 indicating any port)'.
- Internal IP:** A text box with three dots.
- Internal port:** A dropdown menu set to 'User-defined' and a text box containing '(0-65535, 0 indicating any port)'.

Buttons at the bottom: OK, Cancel.

- Select **Interface name**.

Note: This must be the Dialer with a WAN IP.

- Click .



The 'Select Interface' dialog box contains the following elements:

- Interface name:** A text box and a search icon.
- Table:** A list of interfaces with their IP addresses and masks. The 'Dialer4' row is highlighted with a red box.

Interface Name	IP Address/Mask
<input type="radio"/> GigabitEthernet0/0/4	
<input type="radio"/> GigabitEthernet0/0/5	
<input type="radio"/> Ethernet0/0/0	
<input type="radio"/> Cellular0/0/0	
<input type="radio"/> Dialer1	
<input type="radio"/> Dialer2	
<input type="radio"/> Dialer3	
<input checked="" type="radio"/> Dialer4	210.50.8.73 / 255.255.255.255
<input type="radio"/> Dialer5	
<input type="radio"/> Vlanif11	192.168.11.1 / 255.255.255.0
<input type="radio"/> GigabitEthernet0/0/4.100	
<input type="radio"/> Virtual-Ethernet0/0/5	
<input type="radio"/> Ethernet0/0/0.100	

Buttons at the bottom: OK (highlighted with a red box), Cancel.

5. Select **Translation Type** of **Protocol translation**.
6. Select required **Protocol Type**. (TCP or UDP)

Note: If you want the rule to apply to both TCP and UDP you will need to create two rules.

Create Static NAT

- * Interface name: Dialer4
- * Translation type: Protocol translation Address translation
- * Protocol type: TCP UDP ICMP
- * External IP: Interface IP address 210 . 50 . 8 . 73
 - User-defined
 - Specified interface
- External port: Single mapping Multi-mapping
 - User-defined [] (0-65535, 0 indicating any port)
- * Internal IP: [. . .]
- Internal port: User-defined [] (0-65535, 0 indicating any port)

OK Cancel

7. Select the same Dialer from the drop-down list as the Interface name.

Create Static NAT

- * Interface name: Dialer4
- * Translation type: Protocol translation Address translation
- * Protocol type: TCP UDP ICMP
- * External IP: Interface IP address
 - User-defined
 - Specified interface Dialer4 [?]
- External port: Single mapping Multi-mapping
 - User-defined [] (0-65535, 0 indicating any port)
- * Internal IP: [. . .]
- Internal port: User-defined [] (0-65535, 0 indicating any port)

OK Cancel

8. Enter **External Port** details.

This is the port that will be accessed from the "outside world".
Select 'Single mapping'.

9. Enter **Internal IP**.

This is the IP of the computer needing the port open.

10. Enter **Internal Port** details.

This is the port wanted on the computer. (These can be different)

11. Click .

Create Static NAT

- * Interface name: Dialer4
- * Translation type: Protocol translation Address translation
- * Protocol type: TCP UDP ICMP
- * External IP: Interface IP address
 - User-defined
 - Specified interface Dialer4 [?]
- External port: Single mapping Multi-mapping
 - User-defined [12345] (0-65535, 0 indicating any port)
- * Internal IP: 192 . 168 . 11 . 245
- Internal port: User-defined [12345] (0-65535, 0 indicating any port)

OK Cancel

The Static NAT page is redisplayed. With the rule you have created displayed.

Click on Refresh

Static NAT						
+ Create X Delete Refresh						
Interface Name	External IP Address	External Port Number	Internal IP Address	Internal Port Number	Protocol Type	Operation
<input type="checkbox"/> Dialer4	58.178.11.245	12345	192.168.11.245	12345	TCP	

The device is setup to automatically create a second rule displaying VLAN.

Static NAT						
+ Create X Delete Refresh						
Interface Name	External IP Address	External Port Number	Internal IP Address	Internal Port Number	Protocol Type	Operation
<input type="checkbox"/> Dialer4	58.178.11.245	12345	192.168.11.245	12345	TCP	
<input type="checkbox"/> Vlan11	58.178.11.245	12345	192.168.11.245	12345	TCP	

Repeat as necessary for each port that needs forwarding.