



# Quick Note 022

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## Configuring Wireless LAN security and DHCP server on Transport Routers

UK Support

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## 1 VERSION

Version Number	Status
1.0	Published
1.1	Updated for new GUI

## 2 CONFIGURATION

### 2.1 Configure an Ethernet port

Configuration – Network > Interfaces > Ethernet > ETH 3

▼ ETH 3

Description:

Get an IP address automatically using DHCP

Use the following settings

IP Address:

Mask:

Gateway:

DNS Server:

Secondary DNS Server:

Changes to these parameters may affect your browser connection

Configuration – Network > Interfaces > Ethernet > ETH 3 > Advanced

Respond to ARP requests only if the requestor is of this network

Enable IGMP on this interface

Enable Bridge on this interface  
Bridge Instance:

Generate Heartbeats on this interface

Generate Ping packets on this interface

Input the IP Address and for the Bridge option select 'on'. Click OK (at the bottom of the page) to save the settings.

Parameter	Setting	Description
IP Address	192.168.1.1	Sets the IP address of ETH 3
Enable Bridge on this interface	Checked	Enable bridging on this interface
Bridge instance	0	Bridges the ETH 3 port with the Wi-Fi module

### 2.2 Configure DHCP

Configuration - Network > DHCP Server > DHCP Server for Ethernet 3

**▼ DHCP Server for Ethernet 3**

Enable DHCP Server

IP Addresses:  to   
 to   
 to

Mask:

Gateway:

DNS Server:

Secondary DNS Server:

Domain Name:

Lease Duration:  days  hrs  mins

Wait for  milliseconds before sending DHCP offer reply

Only send offers to Wi-Fi clients

**DHCP Relay**

Forward DHCP requests to:

The lowest assignable IP address needs to be set, as does the subnet mask, default gateway IP address and DNS server IP address. Click OK at the bottom of the page to save the settings.

Parameter	Setting	Description
Enable DHCP Server	Checked	Enable DHCP Server for Ethernet 3
IP Addresses	192.168.1.2 to 192.168.1.20	Sets IP address range that will be assigned by the DHCP server.
Mask	255.255.255.0	Sets the Subnet mask that the DHCP client machines will receive.
Gateway address	192.168.1.1	Sets the default gateway IP address that will be assigned.
DNS Server	192.168.1.1	Sets the DNS server IP address that will be assigned

## 2.3 Configure Wi-Fi

### Configuration - Network > Interfaces > Wi-Fi > Global Wi-Fi settings

Configuration - Network > Interfaces > Wi-Fi > Global Wi-Fi settings

▼ Global Wi-Fi settings

Country:  ▼  
 Network Mode:  ▼  
 Channel:  ▼

Parameter	Setting	Description
Country	Select correct country	Sets the Wi-Fi channels available for use
Network Mode	B/G	Sets Wi-Fi to B/G mode
Channel	Number/Auto	Sets the channel ID for use.

### Configuration - Network > Interfaces > Wi-Fi > Global Wi-Fi settings > Wi-Fi Filtering

▼ Wi-Fi Filtering

**Caution:** Carefully review settings before applying changes. Incorrect settings can make the TransPort device inaccessible from the Wi-Fi network.

Wi-Fi filtering allows you to control which devices can connect to the TransPort device via Wi-Fi. When enabled, only Wi-Fi clients configured will be able to connect to the TransPort device.

Enable Wi-Fi filtering

Allow access for the following Wi-Fi devices (you may specify up to 64 addresses).  
 A valid MAC address has the format: 11:22:33:44:55:66 (a hyphen '-' is also accepted as the separator).

Mac Address	
<input type="text" value="aa:bb:cc:dd:ee:ff"/>	<input type="button" value="Delete"/>
<input type="text"/>	<input type="button" value="Add"/>

The option above is used to enter MAC addresses of wireless adaptors which are allowed to connect to the wireless LAN.

Parameter	Setting	Description
Mac Address	aabbccddeeff	Sets a MAC address that is allowed to connect to the wireless LAN.

## Configuration – Network > Interfaces > Wi-Fi > Wi-Fi 0

**Configuration - Network > Interfaces > Wi-Fi > Wi-Fi 0**

Enable this Wi-Fi interface

Description:

SSID:

Mode:

In order to send data to and from this Wi-Fi interface, it must be bridged with at least one Ethernet interface

This Wi-Fi interface is a member of Bridge instance  and therefore bridged to the following interfaces

Interface		
Ethernet	<input type="text" value="3"/>	<input type="button" value="Delete"/>
Wi-Fi	<input type="text" value="0"/>	
Ethernet	<input type="text"/>	<input type="button" value="Add"/>

Hide SSID

Enable station isolation

**Wi-Fi Security**

Use the following security on this Wi-Fi interface:

None  
 WEP  
 WPA-PSK  
 WPA2-PSK  
 WPA-RADIUS  
 WPA2-RADIUS

**WPA-PSK Settings**

WPA Encryption:  TKIP    AES (CCMP)

WPA pre-shared key:  (8 - 63 chars)

Confirm WPA pre-shared key:

Parameter	Setting	Description
Enable this interface	Enabled	Enables Wi-Fi
Description	Free text field	Friendly name
SSID	SSID text	Sets the SSID for the access point
Mode	Access Point	Sets the mode of the Wi-Fi
Wi-Fi interface bridge instance	Drop down list	Sets membership of Bridge instance (table below allows management of this bridge instance)
Hide SSID	Enabled	Stops the SSID being broadcast
Isolation	Enabled	Keeps Wi-Fi clients isolated from each other
Security	WPA2-PSK	Sets the security method

Parameter	Setting	Description
WPA Encryption	AES	Sets the WPA encryption type
WPA pre-shared key	Password	Sets the pre-shared key

**Please note:** In order to maximise the security of the wireless connection the use of a long pseudo-random shared key is recommended.

Wi-Fi configuration is now complete