



192.168.15.1/cgi-bi



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X-wrt

24.04\_b202410201421 r28027+1-fd372c3b893

Re

Interfaces - Devices - Global network options

## Interfaces » wwan

General Settings Advanced Settings Firewall Settings DHCP Server

Status

Device: Client "Free Wi-MESH Rescue"  
Uptime: 0h 27m 22s  
MAC: 64:09:80:0D:E2:78  
RX: 113.59 MB (96764 Pkts.)  
TX: 7.90 MB (38726 Pkts.)  
IPv4: 186.186.12.249/19

Protocol

DHCP client

Device

unspecified

Disable this interface



Bring up on boot



Hostname to send when requesting  
DHCP

Send the hostname of this device

Dismiss

Save



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Re

## Interfaces » lan

General Settings Advanced Settings Firewall Settings DHCP Server

Force link



Set interface properties regardless of the link carrier (if set, carrier sense events do not invoke hotplug handlers).

Use default gateway



If unchecked, no default route is configured

Use custom DNS servers



DNS search domains



DNS weight

The DNS server entries in the local resolv.conf are primarily sorted by the weight specified here

Use gateway metric

Metric is an ordinal, where a gateway with 1 is chosen 1st, 2 is chosen 2nd, 3 is chosen 3rd, etc

Override IPv4 TTL

Override IPv6 Hoplimit

Override IPv4 routing table



Override IPv6 routing table



Delegate IPv6 prefixes



Enable downstream delegation of IPv6 prefixes available on this interface

IPv6 assignment length

Assign a part of given length of every public IPv6-prefix to this interface

IPv6 assignment hint

Assign prefix parts using this hexadecimal subprefix ID for this interface.

IPv6 prefix filter

If set, downstream subnets are only allocated from the given IPv6 prefix classes.

IPv6 suffix

Optional. Allowed values: 'eui64', 'random', fixed value like '::1' or '::12'. When IPv6 prefix (like 'a:b:c:d::') is received from a delegating server, use the suffix (like '::1') to form the IPv6 address ('a:b:c:d::1') for the interface.

IPv6 preference

When delegating prefixes to multiple downstreams, interfaces with a higher preference value are considered first when allocating subnets.

Dismiss

Save



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Re

## Interfaces » lan

General Settings Advanced Settings Firewall Settings DHCP Server

Status

Device: br-lan  
Uptime: 0h 32m 40s  
MAC: 64:09:80:0D:E2:76  
RX: 3.37 MB (34048 Pkts.)  
TX: 138.48 MB (82678 Pkts.)  
IPv4: 192.168.15.1/24  
IPv6: undefined/0

Protocol

Static address

Device

br-lan

Disable this interface

☐

Bring up on boot

☒

IPv4 address

192.168.15.1

IPv4 netmask

255.255.255.0

IPv4 gateway

186.186.0.1 (wwan)

IPv4 broadcast

192.168.15.255

Dismiss

Save



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Re

Interfaces » wwan

General Settings

Advanced Settings

Firewall Settings

DHCP Server

Create / Assign firewall-zone

wan wwan

Choose the firewall zone you want to assign to this interface.  
Select *unspecified* to remove the interface from the associated zone or fill out the *custom* field to define a new zone and attach the interface to it.

Dismiss

Save

wwan

phy0-sta0

Uptime: 0h 27m 32s

MAC: 64:09:80:0D:E2:78

RX: 114.38 MB (97407 Pkts.)

TX: 7.93 MB (38909 Pkts.)

IPv4: 186.186.12.249/19

Restart

Stop

Edit

Add new interface...

Save & Apply

Save



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Re

Interfaces

Devices

Global network options

Interfaces » wwan

General Settings

Advanced Settings

Firewall Settings

DHCP Server

No DHCP Server configured for this interface

Set up DHCP Server

Dismiss

Save

wwan

phy0-sta0

Protocol: DHCP client

Uptime: 0h 27m 37s

MAC: 64:09:80:0D:E2:78

RX: 115.18 MB (98036 Pkts.)

TX: 7.97 MB (39116 Pkts.)

IPv4: 186.186.12.249/19

Restart

Stop

Edit

Add new interface...

Save & Apply

Save



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Re

## Interfaces » wwan

General Settings Advanced Settings Firewall Settings DHCP Server

Force link

☐

Set interface properties regardless of the link carrier (If set, carrier sense events do not invoke hotplug handlers).

Use broadcast flag

☐

Required for certain ISPs, e.g. Charter with DOCSIS 3

Client ID to send when requesting DHCP

Vendor Class to send when requesting DHCP

Use default gateway

☒

If unchecked, no default route is configured

Use DNS servers advertised by peer

☒

If unchecked, the advertised DNS server addresses are ignored

DNS weight

The DNS server entries in the local resolv.conf are primarily sorted by the weight specified here

Use gateway metric

Metric is an ordinal, where a gateway with 1 is chosen 1st, 2 is chosen 2nd, 3 is chosen 3rd, etc

Override IPv4 TTL

Override IPv6 Hotlimit

Override IPv4 routing table

Override IPv6 routing table

Delegate IPv6 prefixes

☒

Enable downstream delegation of IPv6 prefixes available on this interface

IPv6 assignment length

Assign a part of given length of every public IPv6-prefix to this interface

IPv6 prefix filter

If set, downstream subnets are only allocated from the given IPv6 prefix classes.

IPv6 suffix

Optional. Allowed values: 'eui64', 'random', fixed value like '::1' or '::12'. When IPv6 prefix (like 'a:b:c:d:') is received from a delegating server, use the suffix (like '::1') to form the IPv6 address ('a:b:c:d::1') for the interface.

IPv6 preference

When delegating prefixes to multiple downstreams, interfaces with a higher preference value are considered first when allocating subnets.

Dismiss

Save



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Re

Interfaces Devices Global network options

## Interfaces » lan

General Settings Advanced Settings Firewall Settings DHCP Server

General Setup Advanced Settings IPv6 Settings

Ignore interface

☐

Disable DHCP for this interface.

Start

100

Lowest leased address as offset from the network address.

Limit

150

Maximum number of leased addresses.

Lease time

12h

Expiry time of leased addresses, minimum is 2 minutes (2m).

Dismiss

Save



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Ref

## Interfaces » lan

General Settings   Advanced Settings   Firewall Settings   DHCP Server

General Setup Advanced Settings IPv6 Settings

Dynamic DHCP



Dynamically allocate DHCP addresses for clients. If disabled, only clients having static leases will be served.

Force



Force DHCP on this network even if another server is detected.

IPy4-Netmask

255.255.255.0

Override the netmask sent to clients. Normally it is calculated from the subnet that is served.

## DHCP-Options



Define additional DHCP options, for example "6,192.168.2.1,192.168.2.2" which advertises different DNS servers to clients.

Dismiss

Save





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Interfaces Devices Global network options

## Interfaces » lan

General Settings Advanced Settings Firewall Settings DHCP Server

Create / Assign firewall-zone

lan lan:

Choose the firewall zone you want to assign to this interface.  
Select *unspecified* to remove the interface from the associated  
zone or fill out the *custom* field to define a new zone and attach  
the interface to it.

Dismiss

Save

wwan

Uptime: 0h 27m 47s

MAC: 64:09:80:0D:E2:78

RX: 115.90 MB (98626 Pkts.)

TX: 8.00 MB (39335 Pkts.)

IPv4: 186.186.12.249/19

phy0-sta0

Restart

Stop

Edit

Add new interface...

Save & Apply

Save



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Interfaces

Devices

Global network options

Interfaces » lan

General Settings

Advanced Settings

Firewall Settings

DHCP Server

General Setup

Advanced Settings

IPv6 Settings

Designated master

☐

Set this interface as master for RA and DHCPv6 relaying as well as NDP proxying.

RA-Service

disabled

Configures the operation mode of the RA service on this interface.

DHCPv6-Service

disabled

Configures the operation mode of the DHCPv6 service on this interface.

NDP-Proxy

disabled

Configures the operation mode of the NDP proxy service on this interface.

IPv6 Prefix Lifetime

5m (5 minutes)

Preferred lifetime for a prefix.

Follow IPv4 Lifetime

☐

DHCPv4 lease time is used as limit and preferred lifetime of the IPv6 prefix.

Dismiss

Save



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Refreshing

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## DHCP and DNS

Dnsmasq is a lightweight [DHCP](#) server and [DNS](#) forwarder.

[General](#) [Devices & Ports](#) [DNS Records](#) [Filter](#) [Forwards](#) [Limits](#) [Log](#) [Resolv & Hosts Files](#)  
[Static Leases](#) [IP Sets](#) [Relay](#) [PXE/TFTP](#)

Authoritative



This is the only DHCP server in the local network.

Resolve these locally

/lan/

Never forward these matching domains or subdomains; resolve from DHCP or hosts files only.

Local domain

lan

Local domain suffix appended to DHCP names and hosts file entries.

Expand hosts



Add local domain suffix to names served from hosts files.

Addresses

/router.local/router.lan/192.168.0.1



Resolve specified FQDNs to an IP.  
Syntax: /fqdn[/fqdn...]/[ipaddr].  
/example.com/ returns NXDOMAIN.  
/#/ matches any domain (and returns NXDOMAIN).  
/example.com/# returns NULL addresses (0.0.0.0, ::) for example.com and its subdomains.

IP sets

/example.org/ipset,ipset6



List of IP sets to populate with the IPs of DNS lookup results of the FQDNs also specified here.

Allocate IPs sequentially



Allocate IP addresses sequentially, starting from the lowest available address.

All servers



Query all available upstream resolvers. First answer wins.

New instance name...

Add server instance

Save & Apply

Save

Reset



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## DHCP and DNS

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[Static Leases](#) [IP Sets](#) [Relay](#) [PXE/TFTP](#)

Non-wildcard



Bind only to configured interface addresses, instead of the wildcard address.

Listen interfaces

unspecified

Listen only on the specified interfaces, and loopback if not excluded explicitly.

Exclude interfaces

unspecified

Do not listen on the specified interfaces.

DNS server port

53

Listening port for inbound DNS queries.

DNS query port

any

Fixed source port for outbound DNS queries.

Minimum source port #

1024

Min valid value 1024. Useful for systems behind firewalls.

Maximum source port #

50000

Max valid value 65535. Useful for systems behind firewalls.

New instance name...

Add server instance

Save & Apply

Save

Reset



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[Static Leases](#) [IP Sets](#) [Relay](#) [PXE/TFTP](#)

- Domain required ☒  
Never forward DNS queries which lack dots or domain parts.  
Names not in `/etc/hosts` are answered `Not found`.
- Rebind protection ☐  
Discard upstream responses containing [RFC1918](#) addresses.  
Discard also upstream responses containing [RFC4193](#), Link-Local and private IPv4-Mapped [RFC4291](#) IPv6 Addresses.
- Local service only ☐  
Accept DNS queries only from hosts whose address is on a local subnet.
- Filter private ☒  
Reject reverse lookups to [RFC6303](#) IP ranges (`*.IN-ADDR.ARPA`, `*.IP6.ARPA`) not in `/etc/hosts`.
- Filter SRV/SOA service discovery ☐  
Filters SRV/SOA service discovery, to avoid triggering dial-on-demand links.  
May prevent VoIP or other services from working.
- Filter IPv6 AAAA records ☐  
Remove IPv6 addresses from the results and only return IPv4 addresses.  
Can be useful if ISP has IPv6 nameservers but does not provide IPv6 routing.
- Filter IPv4 A records ☐  
Remove IPv4 addresses from the results and only return IPv6 addresses.
- Localise queries ☒  
Limit response records (from `/etc/hosts`) to those that fall within the subnet of the querying interface.  
This prevents unreachable IPs in subnets not accessible to you.  
Note: IPv4 only.
- No negative cache ☐  
Do not cache negative replies, e.g. for non-existent domains.
- IPs to override with NXDOMAIN  [+](#)  
Transform replies which contain the specified addresses or subnets into NXDOMAIN responses.

New instance name...

Add server instance

Save & Apply

Save

Reset



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Refreshing

## DHCP and DNS

Dnsmasq is a lightweight [DHCP](#) server and [DNS](#) forwarder.

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DNS Forwards



Forward specific domain queries to specific upstream servers.

Additional servers file

File listing upstream resolvers, optionally domain-specific, e.g. server=1.2.3.4, server=/domain/1.2.3.4.

Add requestor MAC

Add the MAC address of the requestor to DNS queries which are forwarded upstream.

enabled uses the default MAC address format encoding  
base64 uses an alternative encoding of the MAC as base64  
text uses a human-readable encoding of hex-and-colons

☐ Remove MAC address before forwarding query

Remove any MAC address information already in downstream queries before forwarding upstream.

Add subnet address to forwards

Add a subnet address to the DNS queries which are forwarded upstream, leaving this value empty disables the feature. If an address is specified in the flag, it will be used, otherwise, the address of the requestor will be used. The amount of the address forwarded depends on the prefix length parameter: 32 (128 for IPv6) forwards the whole address, zero forwards none of it but still marks the request so that no upstream nameserver will add client address information either.

The default (0, 0) is zero for both IPv4 and IPv6.

24, 96 adds the /24 and /96 subnets of the requestor for IPv4 and IPv6 requestors, respectively.

1.2.3.4/24 adds 1.2.3.0/24 for IPv4 requestors and ::/0 for IPv6 requestors.

1.2.3.4/24, 1.2.3.4/24 adds 1.2.3.0/24 for both IPv4 and IPv6 requestors.

☐ Remove subnet address before forwarding query

Remove any subnet address already present in a downstream query before forwarding it upstream.

[Add server instance](#)

[Save & Apply](#)

[Save](#)

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## DHCP and DNS

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Max. DHCP leases

Maximum allowed number of active DHCP leases.

Max. EDNS0 packet size

Maximum allowed size of EDNS0 UDP packets.

Max. concurrent queries

Maximum allowed number of concurrent DNS queries.

Size of DNS query cache

Number of cached DNS entries, 10000 is maximum, 0 is no caching.

Min cache TTL

Extend short TTL values to the seconds value given when caching them. Use with caution. (Max 1h == 3600)

Max cache TTL

Set a maximum seconds TTL value for entries in the cache.

Add server instance

Save & Apply

Save

Reset



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Refreshing

## DHCP and DNS

Dnsmasq is a lightweight [DHCP](#) server and [DNS](#) forwarder.

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[Static Leases](#) [IP Sets](#) [Relay](#) [PXE/TFTP](#)

Log queries

☐

Write received DNS queries to syslog. Dump cache on SIGUSR1, include requesting IP.

Extra DHCP logging

☐

Log all options sent to DHCP clients and the tags used to determine them.

Log facility

Set log class/facility for syslog entries.

Suppress logging

☐

Suppress logging of the routine operation for the DHCP protocol.

New instance name...

Add server instance

Save & Apply

Save

Reset





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Refreshing

DNS

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## DHCP and DNS

Dnsmasq is a lightweight DHCP server and DNS forwarder.

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Use `/etc/ethers`



Read `/etc/ethers` to configure the DHCP server.

Lease file

File to store DHCP lease information.

Ignore resolv file



Resolv file

File with upstream resolvers.

Strict order



Query upstream resolvers in the order they appear in the resolv file.

Ignore `/etc/hosts`



Additional hosts files



[Add server instance](#)

Save & Apply



Save

Reset



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Refreshing

## DHCP and DNS

Dnsmasq is a lightweight [DHCP](#) server and [DNS](#) forwarder.

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Static leases are used to assign fixed IP addresses and symbolic hostnames to DHCP clients. They are also required for non-dynamic interface configurations where only hosts with a corresponding lease are served.

Use the *Add* Button to add a new lease entry. The *MAC address* identifies the host, the *IPv4 address* specifies the fixed address to use, and the *Hostname* is assigned as a symbolic name to the requesting host. The optional *Lease time* can be used to set non-standard host-specific lease time, e.g. 12h, 3d or infinite.

The tag construct filters which host directives are used; more than one tag can be provided, in this case the request must match all of them. Tagged directives are used in preference to untagged ones. Note that one of mac, duid or hostname still needs to be specified (can be a wildcard).

Hostname	MAC address(es)	IPv4 address	Lease time	DUID	IPv6-Suffix (hex)	Tag	Match Tag
----------	-----------------	--------------	------------	------	-------------------	-----	-----------

This section contains no values yet

Add

### Active DHCP Leases

Hostname	IPv4 address	MAC address	Lease time remaining
----------	--------------	-------------	----------------------

There are no active leases

### Active DHCPv6 Leases

Host	IPv6 address	DUID	Lease time remaining
------	--------------	------	----------------------

There are no active leases

New instance name...

Add server instance

Save & Apply

Save

Reset



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[General Settings](#) [Port Forwards](#) [Traffic Rules](#) [NAT Rules](#) [IP Sets](#)

## Firewall - Zone Settings

The firewall creates zones over your network interfaces to control network traffic flow.

### General Settings

Enable SYN-flood protection	<input checked="" type="checkbox"/>
Drop invalid packets	<input type="checkbox"/>
Input	<input type="text" value="reject"/>
Output	<input type="text" value="accept"/>
Forward	<input type="text" value="reject"/>

### Zones

Zone → Forwardings	Input	Output	Intra zone forward	Masquerading	
<span>lan</span> → <span>wan</span>	<input type="text" value="accept"/>	<input type="text" value="accept"/>	<input type="text" value="accept"/>	<input type="checkbox"/>	<span>≡</span> <span>Edit</span> <span>Delete</span>
<span>wan</span> → <span>REJECT</span>	<input type="text" value="accept"/>	<input type="text" value="accept"/>	<input type="text" value="reject"/>	<input checked="" type="checkbox"/>	<span>≡</span> <span>Edit</span> <span>Delete</span>

Add

Save & Apply Save Reset



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Traffic Rules

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IP Sets

## Firewall - Port Forwards

Port forwarding allows remote computers on the Internet to connect to a specific computer or service within the private LAN.

### Port Forwards

Name	Match	Action	Enable
------	-------	--------	--------

This section contains no values yet

Add

Save & Apply

Save

Reset



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Log out

General Settings Port Forwards Traffic Rules NAT Rules IP Sets

## Firewall - Traffic Rules

Traffic rules define policies for packets traveling between different zones, for example to reject traffic between certain hosts or to open WAN ports on the router.

### Traffic Rules

Name	Match	Action	Enable
Allow-DHCP-Renew	Incoming <i>IPv4</i> , protocol <i>UDP</i> From wan To this device, port 68	Accept input	<input checked="" type="checkbox"/>
Allow-Ping	Incoming <i>IPv4</i> , protocol <i>ICMP</i> From wan To this device	Accept input	<input checked="" type="checkbox"/>
Allow-IGMP	Incoming <i>IPv4</i> , protocol <i>IGMP</i> From wan To this device	Accept input	<input checked="" type="checkbox"/>
Allow-DHCPv6	Incoming <i>IPv6</i> , protocol <i>UDP</i> From wan To this device, port 546	Accept input	<input checked="" type="checkbox"/>
Allow-MLD	Incoming <i>IPv6</i> , protocol <i>ICMP</i> From wan, IP fe80::/10 To this device	Accept input	<input checked="" type="checkbox"/>
Allow-ICMPv6-Input	Incoming <i>IPv6</i> , protocol <i>ICMP</i> From wan To this device Limit matching to 1000 packets per second	Accept input	<input checked="" type="checkbox"/>
Allow-ICMPv6-Forward	Forwarded <i>IPv6</i> , protocol <i>ICMP</i> From wan To any zone Limit matching to 1000 packets per second	Accept forward	<input checked="" type="checkbox"/>
Allow-IPSec-ESP	Forwarded <i>IPv4</i> and <i>IPv6</i> , protocol <i>IPSEC-ESP</i> From wan To lan	Accept forward	<input checked="" type="checkbox"/>
Allow-HTTP-8080	Forwarded <i>IPv4</i> and <i>IPv6</i> , protocol <i>TCP</i> From wan To lan, port 8080	Accept forward	<input checked="" type="checkbox"/>
Allow-IPv6-Forward	Forwarded <i>IPv6</i> From wan To lan	Accept forward	<input type="checkbox"/>
Allow-IPv6-IGMP	Incoming <i>IPv6</i> , protocol <i>IGMP</i> From wan To this device	Accept input	<input checked="" type="checkbox"/>

[Add](#)[Save & Apply](#) [Save](#) [Reset](#)



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Router Password SSH Access SSH-Keys HTTP(S) Access

## SSH Access

Dropbear offers SSH network shell access and an integrated SCP server

### Dropbear Instance

Delete

Enable Instance



Enable SSH service instance

Interface

lan:

Listen only on the given interface or, if unspecified, on all

Port

22

Password authentication



Allow SSH password authentication

Allow root logins with password



Allow the *root* user to log in with password

Gateway Ports



Allow remote hosts to connect to local SSH forwarded ports

Add Instance

Save & Apply

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General Settings Port Forwards Traffic Rules NAT Rules IP Sets

## Firewall - IP sets

firewall4 supports referencing and creating IP sets to simplify matching of large address lists without the need to create one rule per item to match. Port ranges in ipsets are unsupported by firewall4.

Your device runs firewall4.

### IP Sets

Name	Family	Packet Field Match	IPs/Networks/MACs	Include File	Enabled
------	--------	--------------------	-------------------	--------------	---------

This section contains no values yet

Add

Save & Apply

Save

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VPN

Wizard

Log out

General Settings Port Forwards Traffic Rules NAT Rules IP Sets

## Firewall - NAT Rules

NAT rules allow fine grained control over the source IP to use for outbound or forwarded traffic.

### NAT Rules

Name	Match	Action	Enable
nat6	Forwarded IPv6 From any zone To wan	Automatically rewrite source IP	<input type="checkbox"/>
<div><div>Add</div><div>EditDelete</div></div>			

Save & Apply Save Reset





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X-wrt

24.04\_b202410201421 r28027+1-fd372c3b893

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Wireless Overview

## Wireless Network: Client "Free Wi-MESH Rescue" (phy0-sta0)

### Device Configuration

General Setup Advanced Settings

Status



Mode: Client | SSID: Free Wi-MESH Rescue  
BSSID: 64:09:80:0D:E2:78  
Encryption: None  
Channel: 157 (5.785 GHz)  
Tx-Power: 22 dBm  
Signal: -45 dBm | Noise: 0 dBm  
Bitrate: 400.0 Mbit/s | Country: CN

Wireless network is enabled

Disable

Operating frequency

Mode Channel Width  
AC 157 (5785 Mhz) 80 MHz

Maximum transmit power

22 dBm (158 mW)

- Current power: 22 dBm

Specifies the maximum transmit power the wireless radi use. Depending on regulatory requirements and wireless the actual transmit power may be reduced by the driver

### Interface Configuration

General Setup Wireless Security Advanced Settings WLAN roaming

Mode

Client

ESSID

Free Wi-MESH Rescue

BSSID

32:76:10:19:0D:38

Network

wwan:

Choose the network(s) you want to attach to this wireless interface or fill out the *custom* field to define a new network

Dismiss



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## Wireless Network: Client "Free Wi-MESH Rescue" (phy0-sta0)

## Device Configuration

General Setup Advanced Settings

Country Code

CN - China

Coverage cell density

Disabled

Configures data rates based on the coverage cell density. Normal configures basic rates to 6, 12, 24 Mbps if legacy 802.11b rates are not used else to 5.5, 11 Mbps. High configures basic rates to 12, 24 Mbps if legacy 802.11b rates are not used else to the 11 Mbps rate. Very High configures 24 Mbps as the basic rate. Supported rates lower than the minimum basic rate are not offered.

Distance Optimization

auto

Distance to farthest network member in meters. Set only for distances above one kilometer; otherwise it is harmful.

Fragmentation Threshold

off

RTS/CTS Threshold

off

Force 40MHz mode



Always use 40MHz channels even if the secondary channel overlaps. Using this option does not comply with IEEE 802.11n-2009!

Beacon Interval

100

256QAM



Enable 256QAM modulation. May not be supported by some hardware!

## Interface Configuration

General Setup Wireless Security Advanced Settings WLAN roaming

Mode

Client

ESSID

Free Wi-MESH Rescue

BSSID

32:76:10:19:0D:38

Network

wwan:

Choose the network(s) you want to attach to this wireless interface or fill out the *custom* field to define a new network.

Dismiss

Save