





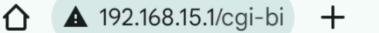






| 24.04_52024102 | |
|------------------------------------|---|
| Interfaces » Ian | d natural antions |
| General Settings Advanced Settings | Etrougil Sattings DUCD Sanjar |
| Advanced settings | Filewall Settligs DHOF Server |
| Force link | Set interface properties regardless of the link carrier (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 | 0 |
| | The DNS server entries in the local resolv.conf are primarily sorted by the weight specified here |
| Use gateway metric | 0 |
| | Metric is an ordinal, where a gateway with 1 is chosen 1st, 2 is chosen 2nd, 3 is chosen 3rd, etc |
| Override IPv4 TTL | 128 |
| Override IPv6 Hotlimit | 255 |
| Override IPv4 routing table | unspecified • |
| Override IPv6 routing table | unspecified • |
| Delegate IPv6 prefixes | Enable downstream delegation of IPv6 prefixes available on this interface |
| IPv6 assignment length | 60 |
| | Assign a part of given length of every public IPv6-prefix to this interface |
| IPv6 assignment hint | 0 |
| | Assign prefix parts using this hexadecimal subprefix ID for this interface. |
| IPv6 prefix filter | Please choose 🔻 |
| | If set, downstream subnets are only allocated from the given IPv6 prefix classes. |
| IPv6 suffix | :1 |
| | Optional. Allowed values: 'eui64', 'random', fixed value like ":1' or "::1:2'. 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 | 0 |
| | When delegating prefixes to multiple downstreams, interfaces with a higher preference value are considered first when allocating subnets. |
| Dismiss | Save |
| | |

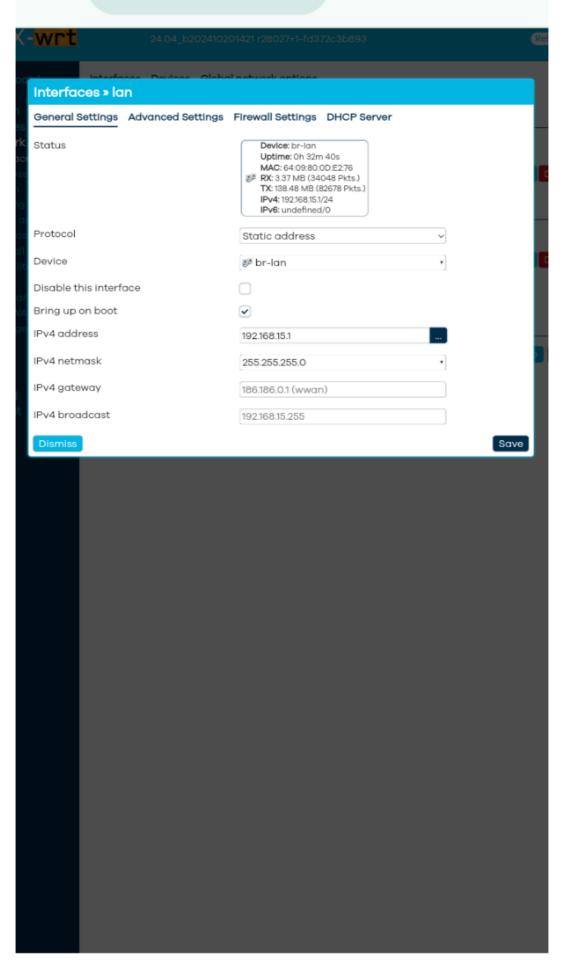












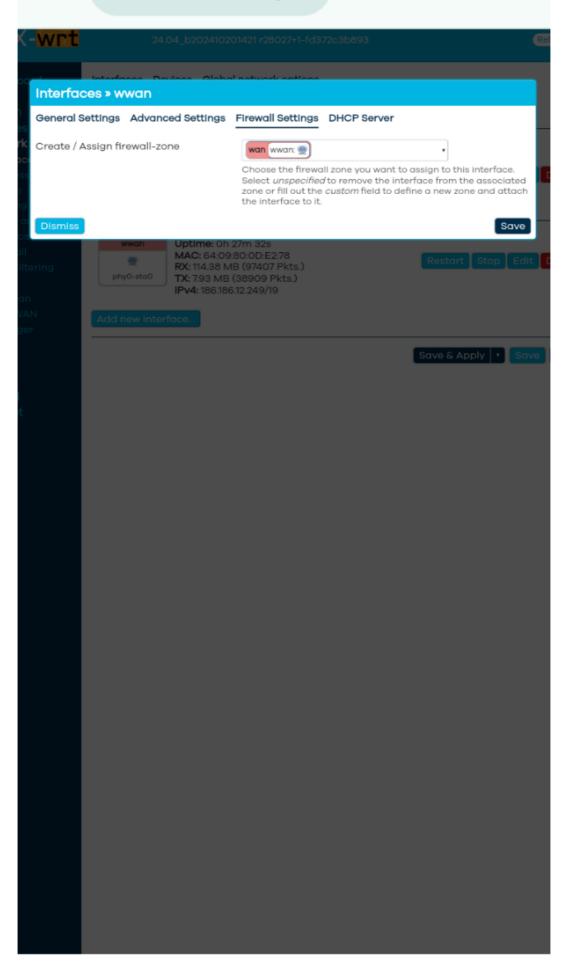












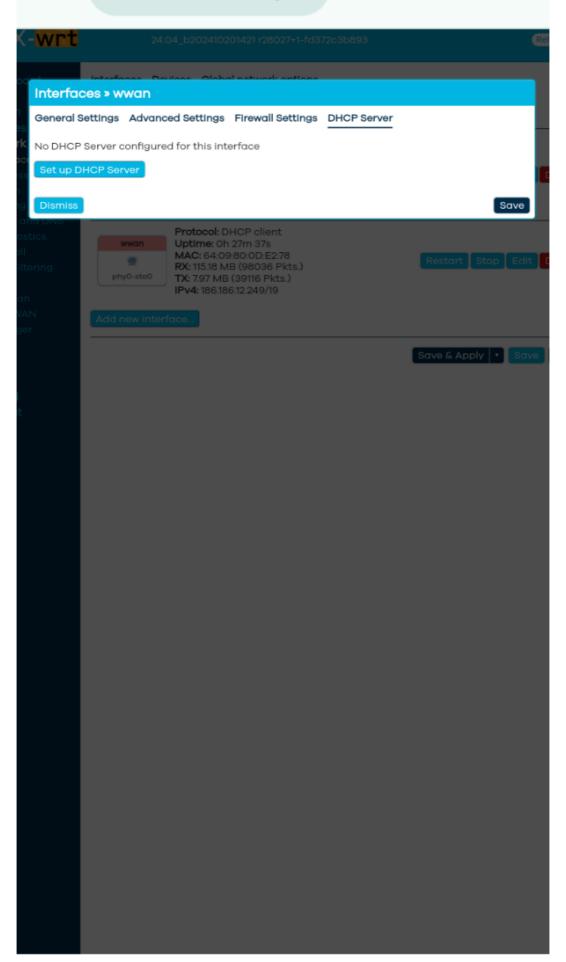


▲ 192.168.15.1/cgi-bi +



















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|---|--|--|--|
| Interferens Dayless Glober | I notwork ontions | | |
| 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 | 0 | | |
| | The DNS server entries in the local resolv.conf are primarily sorted by the weight specified here | | |
| Use gateway metric | 0 | | |
| | Metric is an ordinal, where a gateway with 1 is chosen 1st, 2 is chosen 2nd, 3 is chosen 3rd, etc | | |
| Override IPv4 TTL | 128 | | |
| Override IPv6 Hotlimit | 255 | | |
| Override IPv4 routing table | unspecified • | | |
| Override IPv6 routing table | unspecified • | | |
| Delegate IPv6 prefixes | Enable downstream delegation of IPv6 prefixes available on this interface | | |
| IPv6 assignment length | disabled • | | |
| | Assign a part of given length of every public IPv6-prefix to this interface | | |
| IPv6 prefix filter | Please choose • | | |
| | If set, downstream subnets are only allocated from the given IPv6 prefix classes. | | |
| IPv6 suffix | <u>:1</u> | | |
| | Optional. Allowed values: 'eui64', 'random', fixed value like '::1' or '::1:2'. 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 | 0 | | |
| | When delegating prefixes to multiple downstreams, interfaces with a higher preference value are considered first when allocating subnets. | | |
| Dismiss | Save | | |
| | | | |

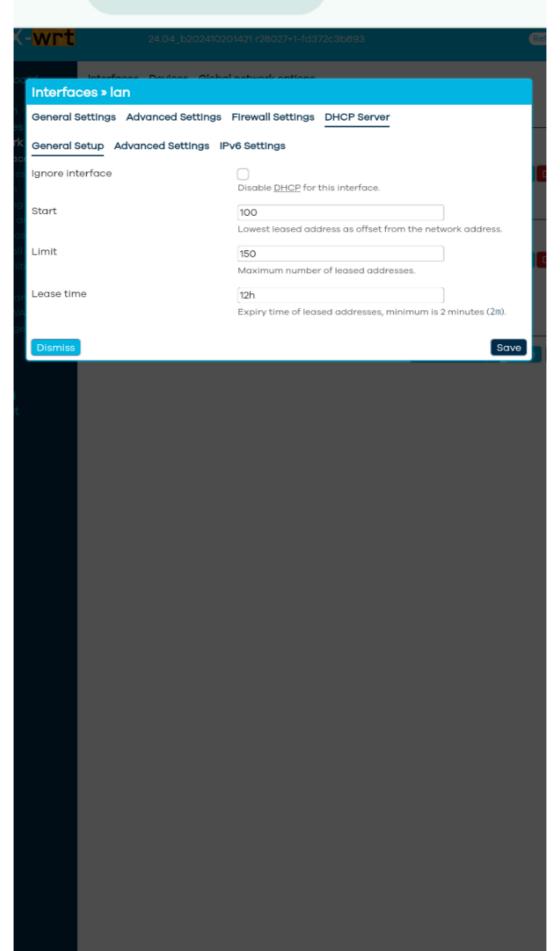




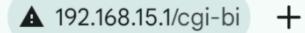








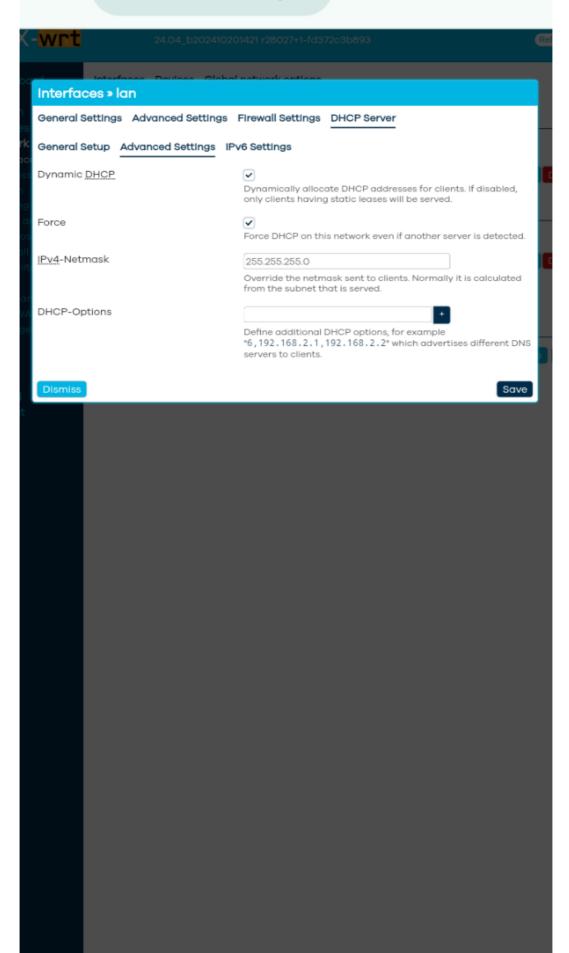












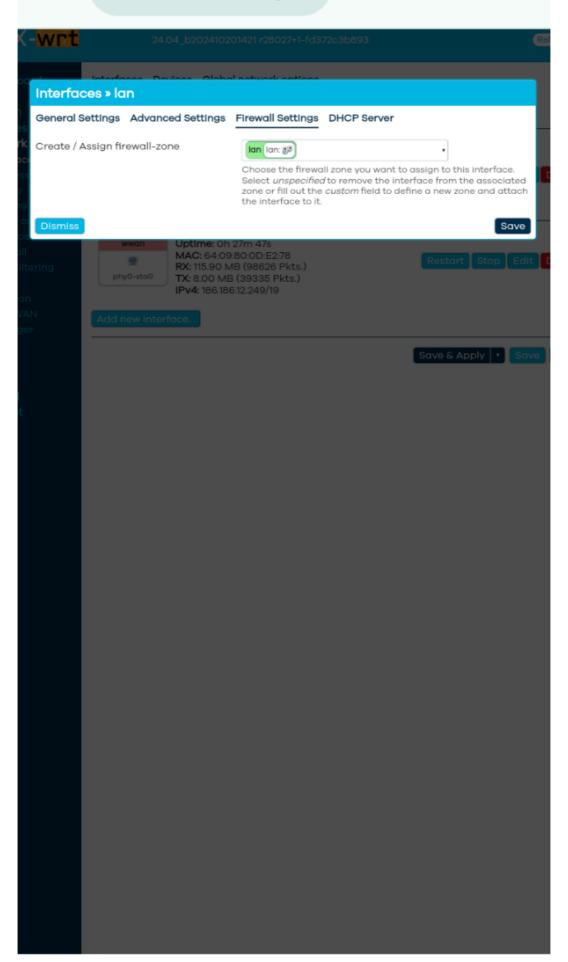




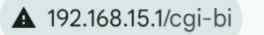








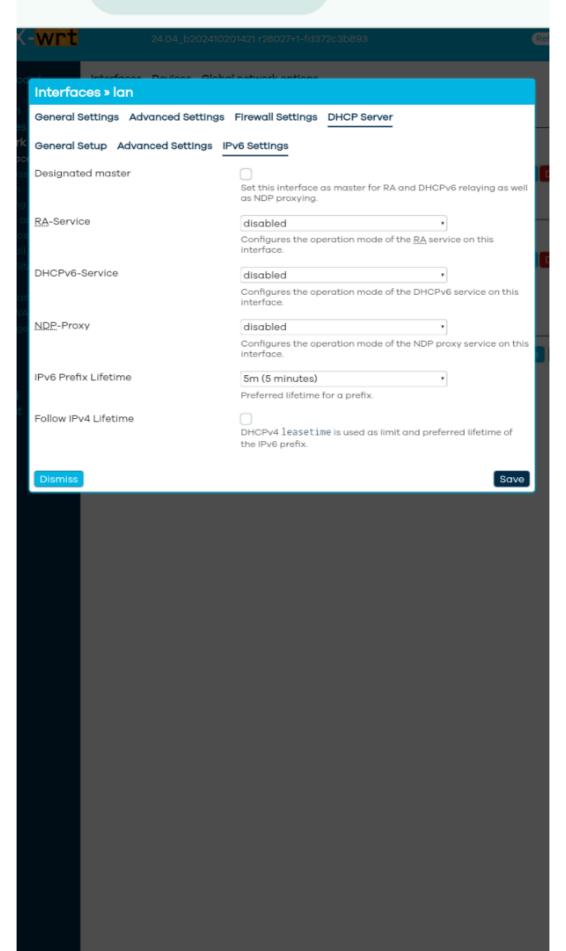






















DNS

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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; reso 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 | |

















DNS

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DHCP and DNS

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

Non-wildcard Bind only to configured interface addresses, instead of the wildcard address. unspecified • Listen interfaces 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 Listening port for inbound DNS queries. DNS query port Fixed source port for outbound DNS queries. Minimum source port # Min valid value 1024. Useful for systems behind firewalls. Maximum source port # Max valid value 65535. Useful for systems behind firewalls. New instance name.















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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 Domain required Never forward DNS queries which lack dots or domain parts. Names not in /etc/hosts are answered Not found. DNS 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 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-May prevent VoIP or other services from working. Filter IPv6 AAAA records Remove IPv6 addresses from the results and only return IPv4 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.

IPs to override with NXDOMAIN

New instance name.

No negative cache

Save & Apply - Save Reset

Do not cache negative replies, e.g. for non-existent domains.

Transform replies which contain the specified addresses or

subnets into NXDOMAIN responses.

















DHCP and DNS

| | Dnsmasq is a lightweight <u>DHCP</u> server and <u>D</u> | NS forwarder. |
|---|--|---|
| | General Devices & Ports DNS Records Static Leases IP Sets Relay PXE/TFT | Filter Forwards Limits Log Resolv & Hosts Files |
| | DNS Forwards | /*.example.org/10.1.2.3 |
| | | Forward specific domain queries to specific upstream servers. |
| 3 | Additional servers file | /etc/dnsmasq.servers |
| | | File listing upstream resolvers, optionally domain-specific, e.g. server=1.2.3.4, server=/domain/1.2.3.4. |
| | Add requestor MAC | off • |
| | | 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. |
| | Remove subnet address before forwarding query | Remove any subnet address already present in a downstream query before forwarding it upstream. |
| | New instance name |] |
| | Add server instance | |

















DNS

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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

Max. DHCP leases

Maximum allowed number of active DHCP leases.

Max. EDNSO packet size

Maximum allowed size of EDNSO UDP packets.

Max. concurrent queries

Maximum allowed number of concurrent DNS queries.

Size of DNS query cache 2048

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.

New instance name.













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DHCP and DNS

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General Devices & Ports DNS Records Filter Forwards Limits Log Resolv & Hosts Files 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 unspecified

Set log class/facility for syslog entries.

Suppress logging

Suppress logging of the routine operation for the DHCP

New instance name..













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DNS

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DHCP and DNS

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

Use /etc/ethers Read /etc/ethers to configure the DHCP server. Lease file /tmp/dhcp.leases File to store DHCP lease information. Ignore resolv file Resolv file /tmp/resolv.conf.d/resolv.conf.auto File with upstream resolvers. Strict order Query upstream resolvers in the order they appear in the resolv file. Ignore /etc/hosts Additional hosts files /etc/dnsmasq.hosts New instance name..

















DNS

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DHCP and DNS

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

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).

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

This section contains no values yet

Active DHCP Leases

Hostname IPv4 address MAC address Lease time remaining

There are no active leases

Active DHCPv6 Leases

IPv6 address DUID Host Lease time remaining

There are no active leases

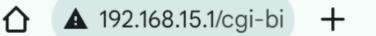
New instance name..













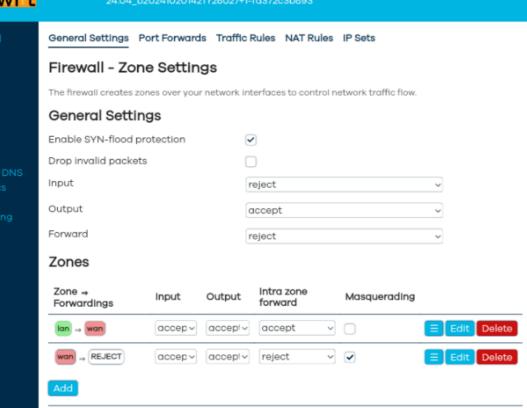


Save & Apply | Save | Reset

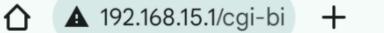


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General Settings Port Forwards Traffic Rules NAT Rules IP Sets

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

Match Action Enable

This section contains no values yet



















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 IPv4, protocol UDP From wan To (this device), port 68 | Accept input | • | Edit Delete |
| Allow-Ping | Incoming IPv4, protocol ICMP From wan To (this device) | Accept input | • | Edit Delete |
| Allow-IGMP | Incoming IPv4, protocol IGMP From wan To this device | Accept input | • | ≡ Edit Delete |
| Allow-DHCPv6 | Incoming IPv6, protocol UDP From wan To (this device), port 546 | Accept input | • | Edit Delete |
| Allow-MLD | Incoming IPv6, protocol ICMP From wan, IP fe80=/10 To (this device) | Accept input | V | Edit Delete |
| Allow-ICMPv6- Input | Incoming IPv6, protocol ICMP From wan To (this device) Limit matching to 1000 packets per second | Accept input | ♥ | Edit Delete |
| Allow-ICMPv6- Forward | Forwarded IPv6, protocol ICMP From wan To any zone Limit matching to 1000 packets per second | Accept forward | • | Edit Delete |
| Allow-IPSec-ESP | Forwarded IPv4 and IPv6, protocol IPSEC-ESP From wan To lan | Accept forward | • | Edit Delete |
| Allow-HTTP-8080 | Forwarded IPv4 and IPv6, protocol TCP From wan To lan , port 8080 | Accept forward | • | Edit Delete |
| Allow-IPv6- Forward | Forwarded <i>IPv6</i> From wan To lan | Accept forward | 0 | Edit Delete |
| Allow-IPv6-IGMP | Incoming IPv6, protocol IGMP From wan To (this device) | Accept input | V | Edit Delete |
| Add | | | | |







↑ 192.168.15.1/cgi-bi +







/rt

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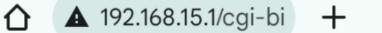
Router Password SSH Access SSH-Keys HTTP(S) Access SSH Access Dropbear offers SSH network shell access and an integrated SCP server **Dropbear Instance** Enable Instance Enable SSH service instance Interface Listen only on the given interface or, if unspecified, on all Port Password authentication Allow 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



















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.

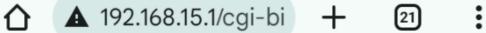
Your device runs firewall4.

IP Sets

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

This section contains no values yet





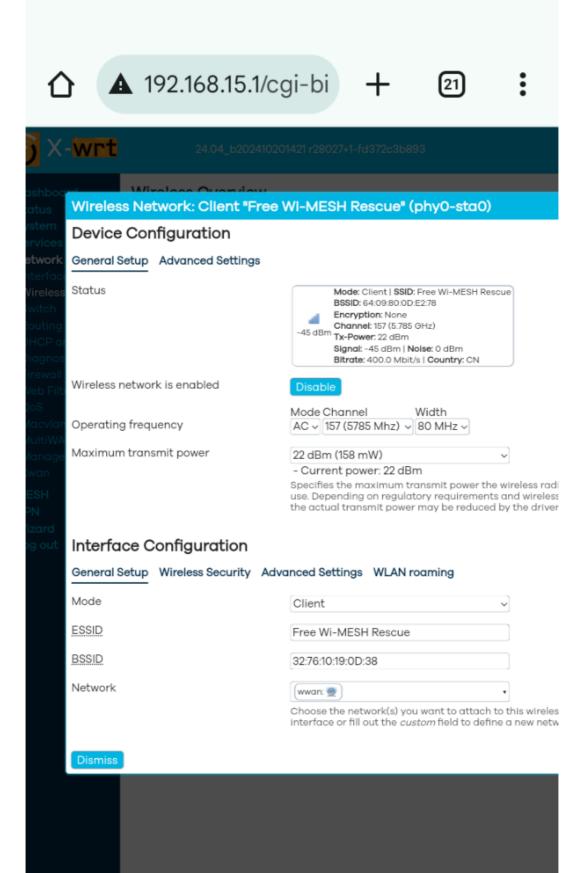








General Settings Port Forwards Traffic Rules NAT Rules IP Sets Firewall - NAT Rules NAT rules allow fine grained control over the source IP to use for outbound or forwarded traffic. **NAT Rules** Action Name Match Enable Forwarded IPv6 nat6 From any zone Automatically rewrite source IP To wan Save & Apply | Save | Reset







↑ 192.168.15.1/cgi-bi + 21







| Wireless Network: Client "Free V | 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 supported by some hardware! | | |
| Interface Configuration | | | |
| General Setup Wireless Security Adv | anced 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 <i>custom</i> field to define a new network. | | |
| Dismiss | Save | | |
| | | | |