Speed Limits and IP Distribution

What is it for?

This page describes two screens in the console's **GUEST NETWORK** group:

- **Speed Limits**: *Download and upload limits per user or per network.* You share your internet line fairly between guests and the business.
- **IP Distribution**: *The device hands out IP addresses automatically to computers and phones on the network. See who received which address here.*

When do you use it?

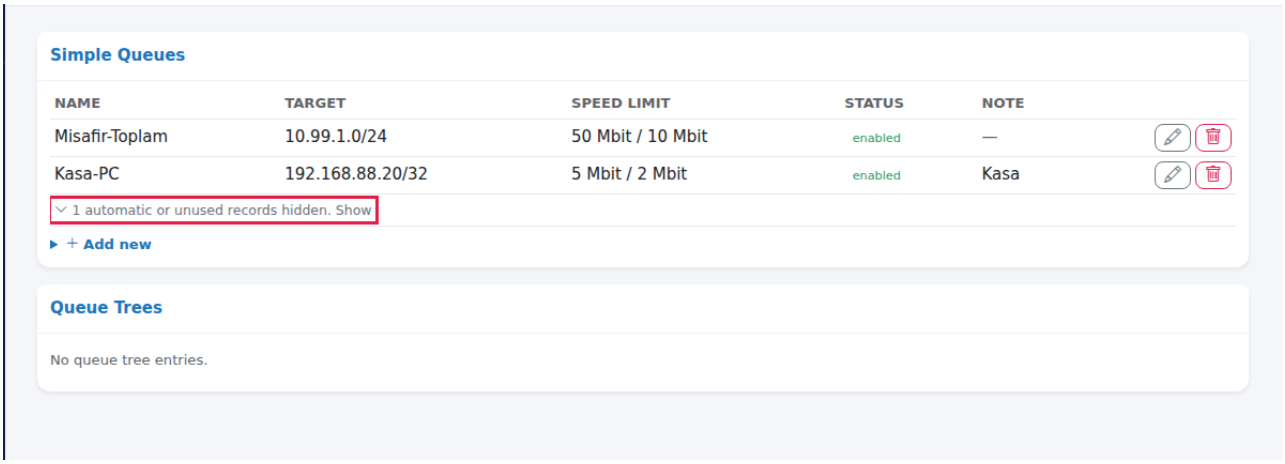
- Guests use the whole internet line and the till and office slow down.
- You want a separate speed limit for one device, such as a meeting room.
- The guest network is running out of IP addresses, or a device cannot get an IP.
- You want to find which IP a device received and give it a fixed IP.

Before you start

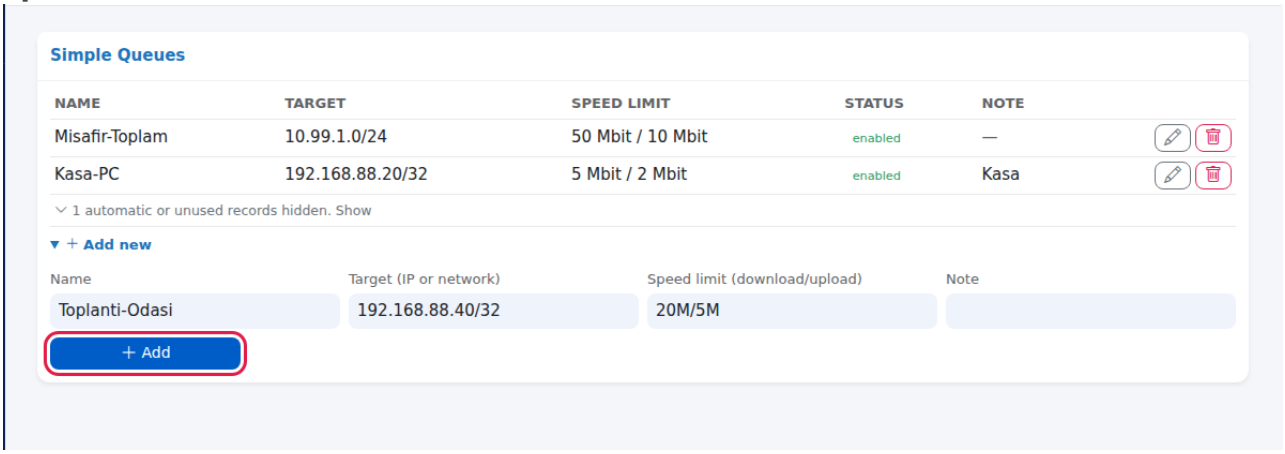
- The device must be connected to the panel.
- Speeds are entered as *download/upload*; *M* means Mbit and *k* kbit (e.g. *10M/2M*). The list shows *10 Mbit / 2 Mbit*.
- Changes are written to the device immediately. You can undo a wrong change with **Undo** in the strip at the top.

Step by step: Speed Limits

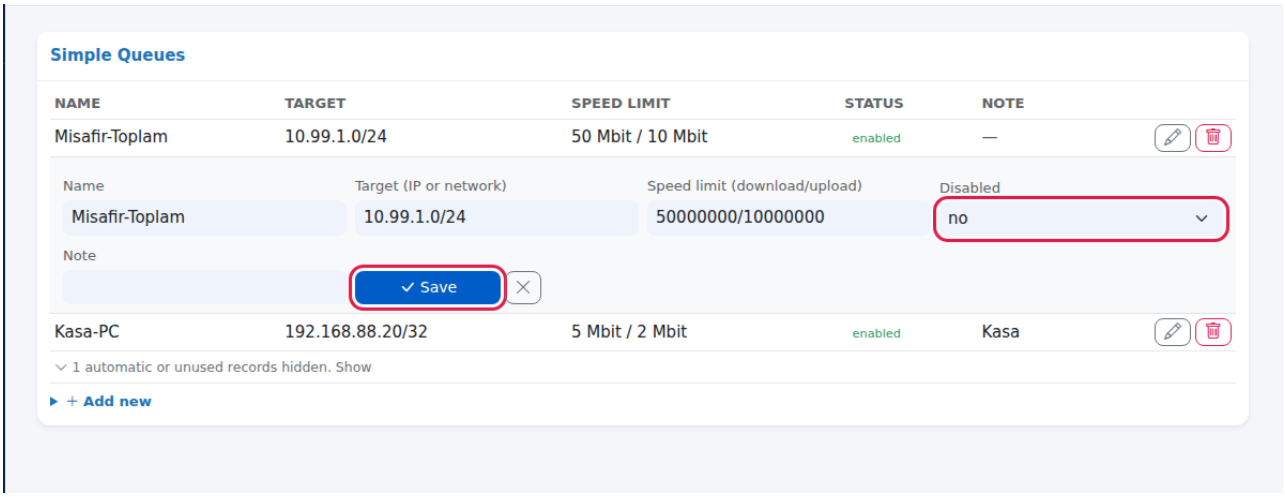
1. **Open the section and check the list.** In the left menu press **GUEST NETWORK** > **Speed Limits**. The **Simple Queues** card shows each limit's **Name**, **Target**, **Speed limit** , **Status** and **Note**; with none it reads *No speed limits defined.* Limits created by the device itself are hidden below the list; the *... automatic or unused records hidden. Show* link opens them, and they are locked with the **automatic** badge. The **Queue Trees** card shows advanced queues as they come from the device; with none it reads *No queue tree entries.*



2. **Add a new limit.** Press **Add new** under the **Simple Queues** card. Enter **Name** (e.g. *Meeting-Room*), **Target (IP or network)** (e.g. *192.168.88.40/32* for one device, *10.99.1.0/24* for the whole guest network), **Speed limit (download/upload)** (e.g. *20M/5M*) and optionally **Note**, then press **Add**. You can do the same with the **Set a speed limit** card on **Overview**.

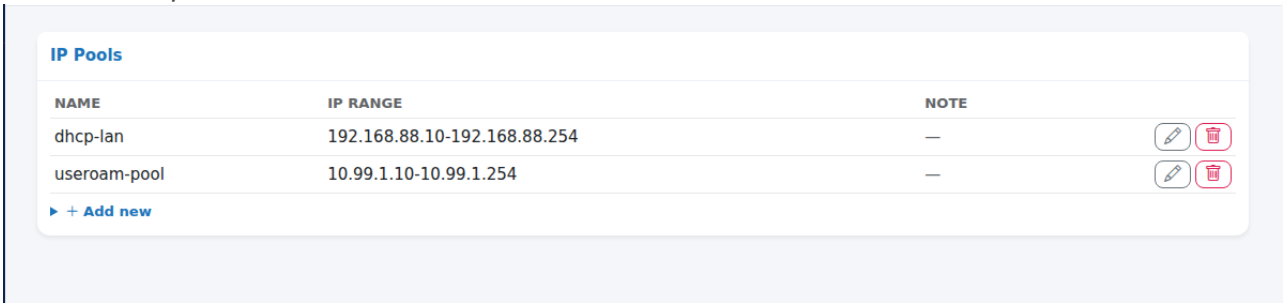


3. **Change or disable a limit.** Press the pencil on the row and change the values in the form. To switch a limit off without deleting it, set **Disabled** to *yes*. Press **Save**. Press the bin to delete. In the edit form the speed appears in the device's own format, in bits (e.g. *50000000/10000000* = 50 Mbit / 10 Mbit); you can type the new value as *50M/10M*.

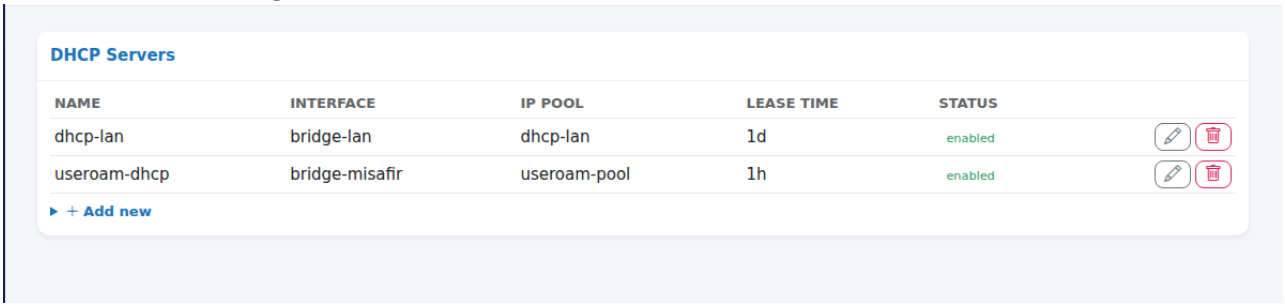


Step by step: IP Distribution

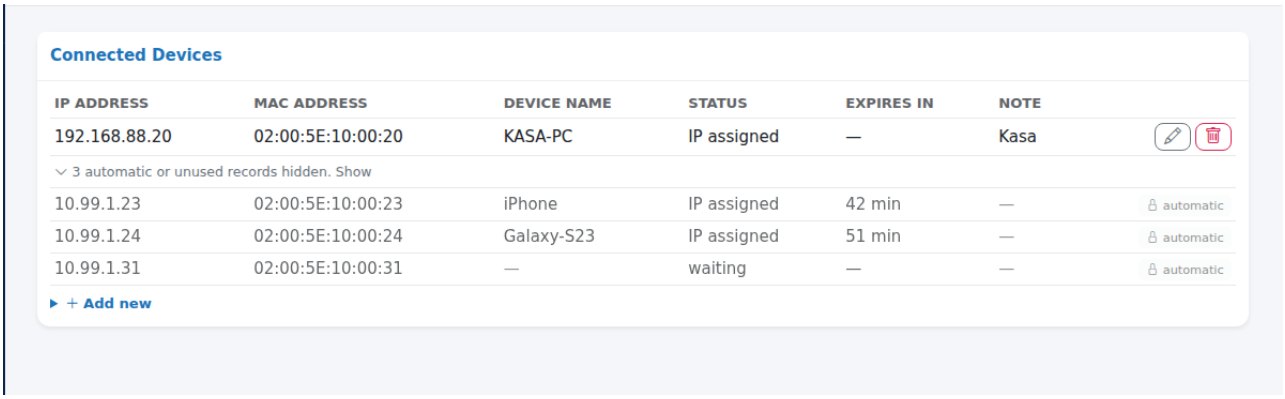
1. **Check the IP pools.** In the left menu press **GUEST NETWORK** > **IP Distribution**. The **IP Pools** card shows the address ranges handed out (**Name**, **IP range**, **Note**). The guest pool created by the setup is *useroam-pool*. For a new pool enter **Pool name**, **IP range** (e.g. *10.99.1.10-10.99.1.200*) and **Note** in **Add new** and press **Add**. With no pools it reads *No IP pool defined.*



2. **Check the DHCP servers.** The **DHCP Servers** card shows each server's **Name**, **Interface**, **Pool**, **Lease time** and **Status**. With the pencil you can change **Name**, **Interface**, **Pool**, **Lease time** (e.g. *1h*) and **Disabled**. With no servers it reads *No IP distribution is configured on this device.*



3. **See devices holding an IP.** The **Connected Devices** card shows **IP address**, **MAC address**, **Device name**, **Status** (*IP assigned*, *waiting*, *offered*), **Expires in** and **Note**. Automatically assigned addresses are hidden and open with *... automatic or unused records hidden. Show*. Manually added (fixed) addresses appear on top. To give a device a fixed IP enter **IP address**, **MAC address** and **Note** in **Add new** and press **Add**. If no device holds an IP it reads *No device currently holds an IP address.*



Fields

Field	What it does	Example
Name	The record's name.	Guests-Total
Target (IP or network) / **Target**	The device or network the limit applies to.	10.99.1.0/24
Speed limit (download/upload) / **Speed limit**	Download and upload maximum.	50M/10M
Pool name, **IP range**	Name and range of the addresses to hand out.	10.99.1.10-10.99.1.200
Interface	The port or bridge the DHCP server runs on.	bridge-misafir
Pool	The IP pool the server uses.	useroam-pool
Lease time	How long a handed-out address stays valid (h hour, d day).	1h
Disabled	With *yes* the record is switched off without deleting it.	no
IP address, **MAC address**	The device's address and MAC for a fixed IP entry.	192.168.88.20
Note	Description.	Till

Frequently asked questions

I want to give all guests 50 Mbit in total.
Enter the guest network as the target (e.g. *10.99.1.0/24*) and *50M/10M* as the speed limit.

There are limits with the *automatic* badge that I cannot change.
The device creates and manages these records itself; they cannot be edited manually. Manage

guest group settings on the panel's Groups screen.

I gave a fixed IP but the device still uses its old address.
The device takes the address at its next renewal. Switch its Wi-Fi off and on, or unplug and replug its cable.

Can I delete the guest pool?
Do not; guests would get no IP. Use the pencil to change the range.

Related pages

- Overview (quick actions)
- MikroTik Management (common buttons)
- Device (Advanced)

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