1. Introduction:

The purpose of this guide is to assist you with how to gain the Correct Rate Limits for your IPC Fibre Accounts. HeroTill can automatically create static queues to manage these speed limits. These auto queues can be implemented either on the core router or at the individual on-premise client routers.

Please ensure that the following has been added and is set up correctly:

No	Description	Link
1	**The Main Core Router for IPC needs to be added to your Network Devices:**	https://yourcompanyurl/devices/ethernet
2	**The Main Core Router for IPC needs to be added to your NAS List:**	https://yourcompanyurl/radius/nas

Once the above has been completed, you will have two ways in which you can make use of the MikroTik Queues:

- Add the queues on the data package if you plan on using the core router for speed limits or
- add queues to specific data accounts if you wish to use the on-premise routers for speed limits.

For more information, please refer to the following:

No	Description	Link
1	MikroTik Queue	https://wiki.mikrotik.com/wiki/Manual:Queue

2 HeroTill IPC https://support.herotill.com/guides/datatill-ipc/

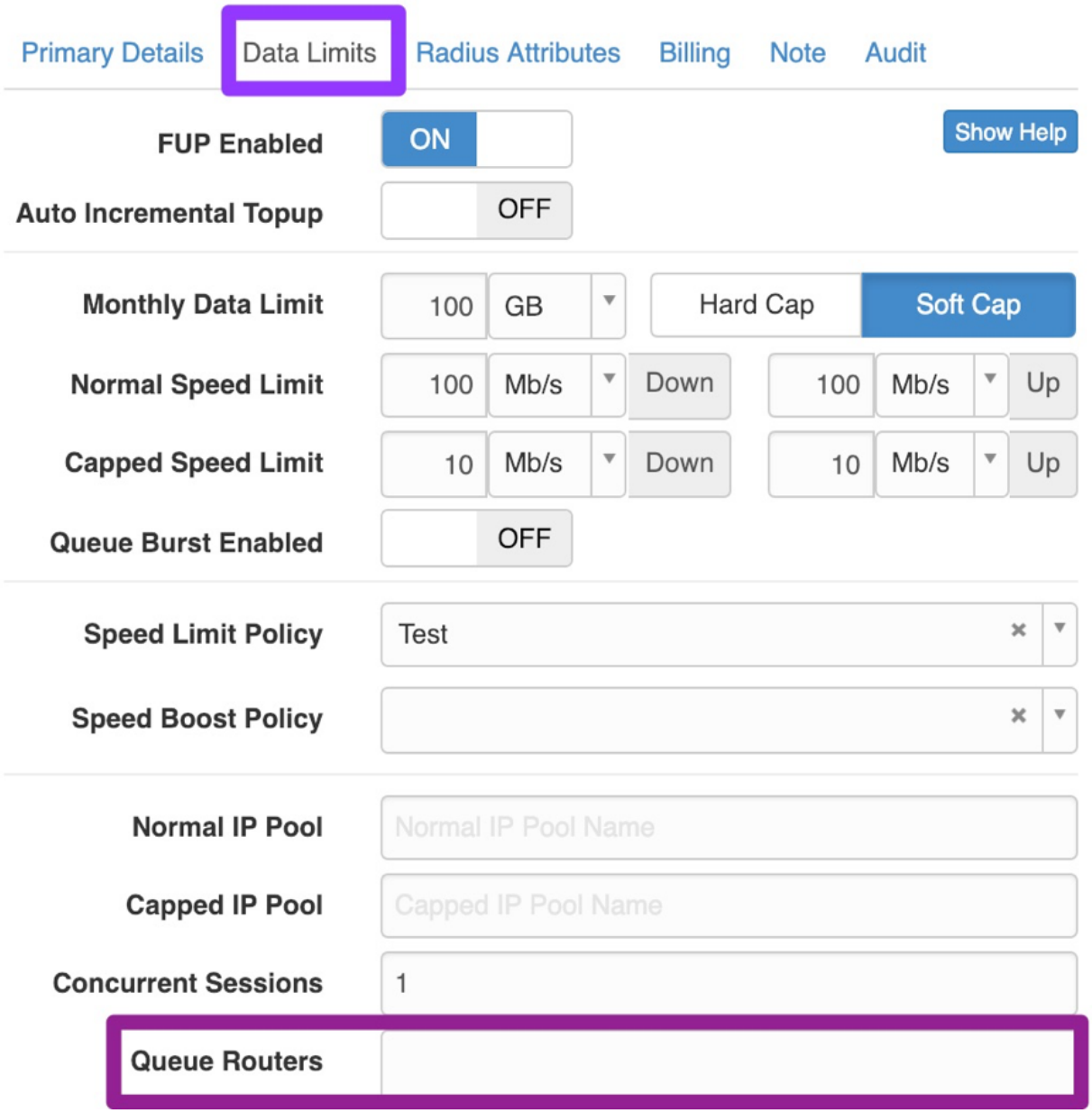
1.1. Adding Queues on data packages

This will allow you to set a data package to queue on a specific MikroTik router. This means that all customers linked on that specific data package will queue off the router that has been selected. To find your data packages, go to "**Data**" and then click on "**Data Products**".

Find the data package on which you would like to add the queue and then click on the **edit** button.

Type	Code	Product Title	Monthly Cap	Product Speed	Action once Capped	Monthly Cost	Topup Cost	Visible to Admins	Visible to Public	Num Users	Product Group	Labels	
Radius	100Mbs Symmetrical Uncapped ISP	100Mbs Symmetrical Uncapped ISP	100.0 GB	100 Mb/s Down, 100 Mb/s Up	Test	R 2,000.00 (R 1,739.13)	R 20.00 (R 17.39)	Yes	Yes	6	UNC		

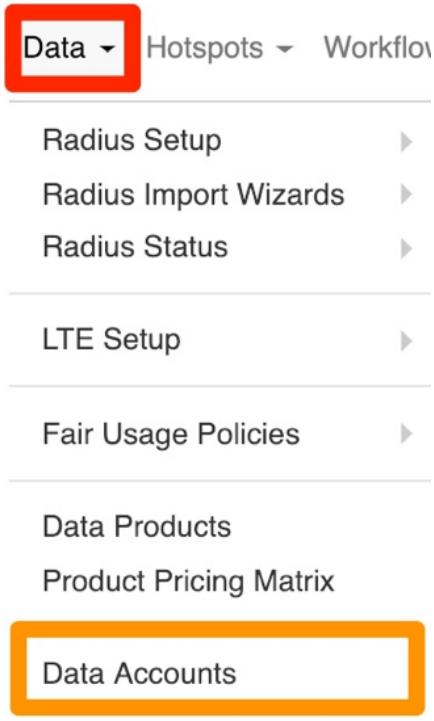
Go to the "**Data Limits**" tab and in the "**Queue Routers**" section, choose the relevant routers. (Please see screenshot on next page).


Primary Details
Data Limits
Radius Attributes
Billing
Note
Audit
FUP Enabled
ON
Show Help
Auto Incremental Topup
OFF
Monthly Data Limit
100
GB
Hard Cap
Soft Cap
Normal Speed Limit
100
Mb/s
Down
100
Mb/s
Up
Capped Speed Limit
10
Mb/s
Down
10
Mb/s
Up
Queue Burst Enabled
OFF
Speed Limit Policy
Test
Speed Boost Policy
Normal IP Pool
Normal IP Pool Name
Capped IP Pool
Capped IP Pool Name
Concurrent Sessions
1
Queue Routers

Remember to click on the "**Save Changes**" button after you have made any changes. Once this has been completed, the static queue will automatically be generated on the MikroTik router.

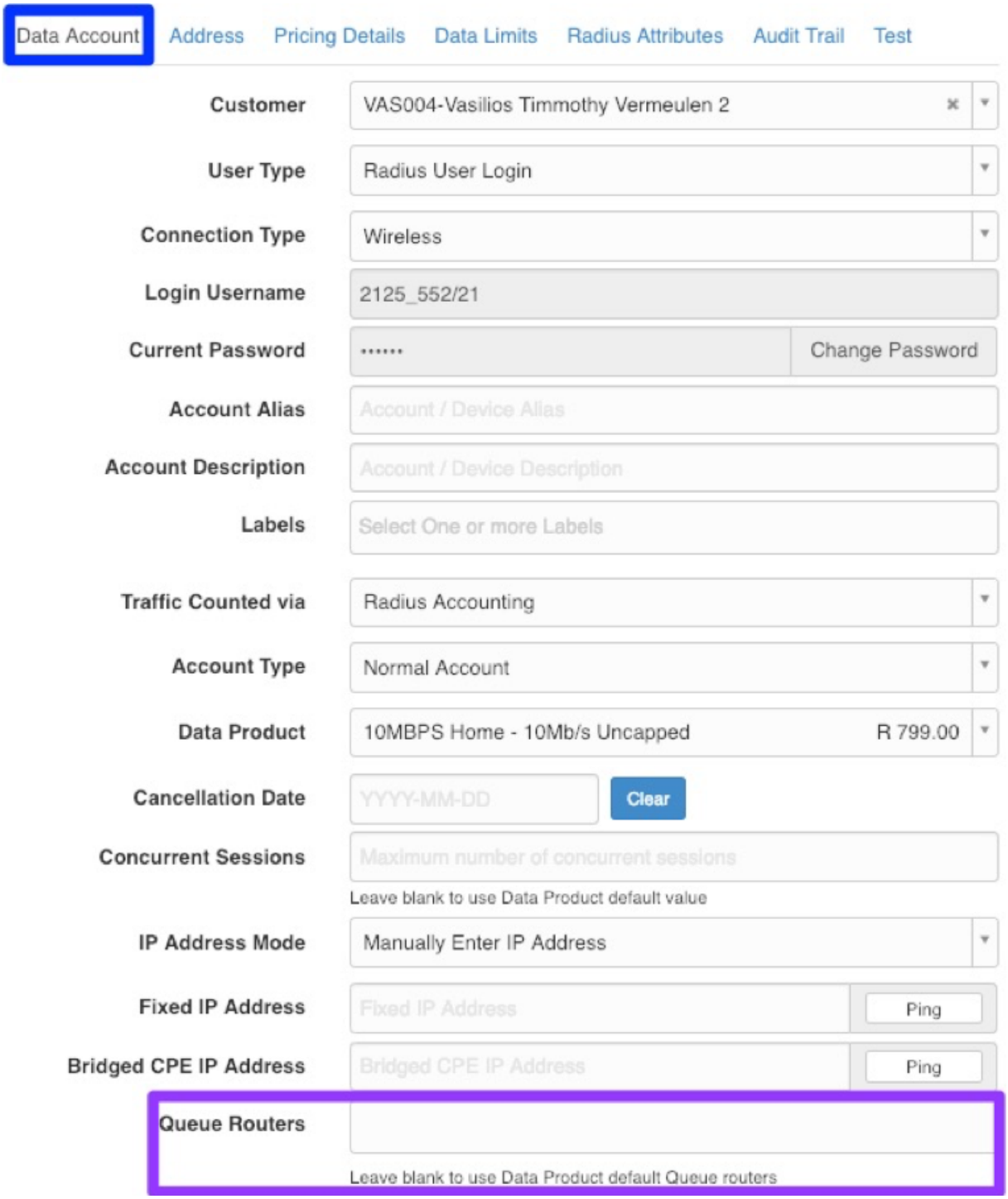
1.2. Adding Queues on data accounts

Additionally, you will be able to queue to a router from a specific data account linked to a customer. Only customers selected will be able to queue from the selected MikroTik router. To find your data accounts, go to "**Data**" and then click on "**Data Accounts**".


Data
Hotspots
Workflo
Radius Setup
Radius Import Wizards
Radius Status
LTE Setup
Fair Usage Policies
Data Products
Product Pricing Matrix
Data Accounts

Find the data account on which you would like to add the queue and then click on the **edit** button.

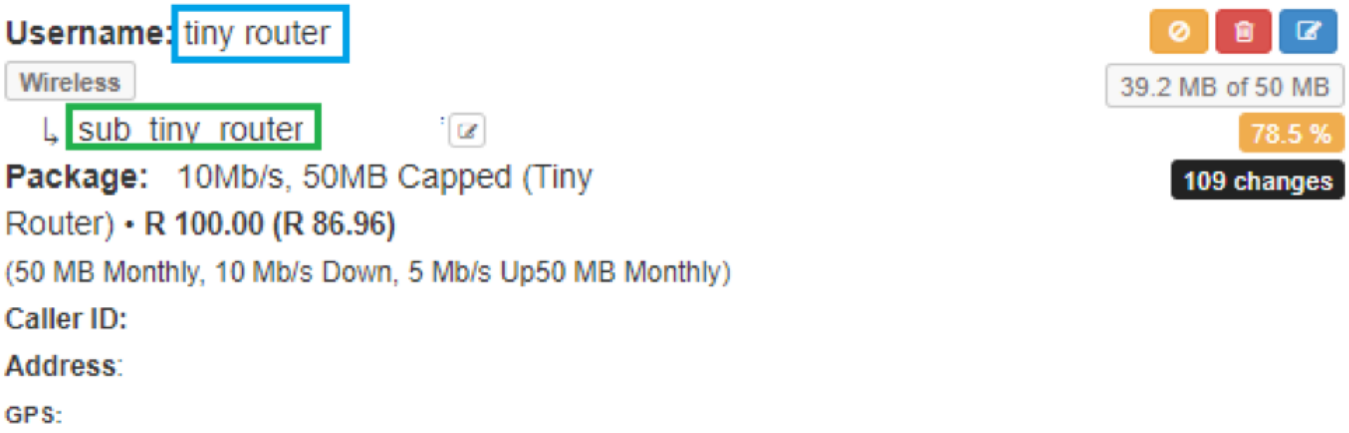
Go to the "**Data Account**" tab and in the "**Queue Routers**" section, choose the relevant routers. (Please see screenshot on the next page).

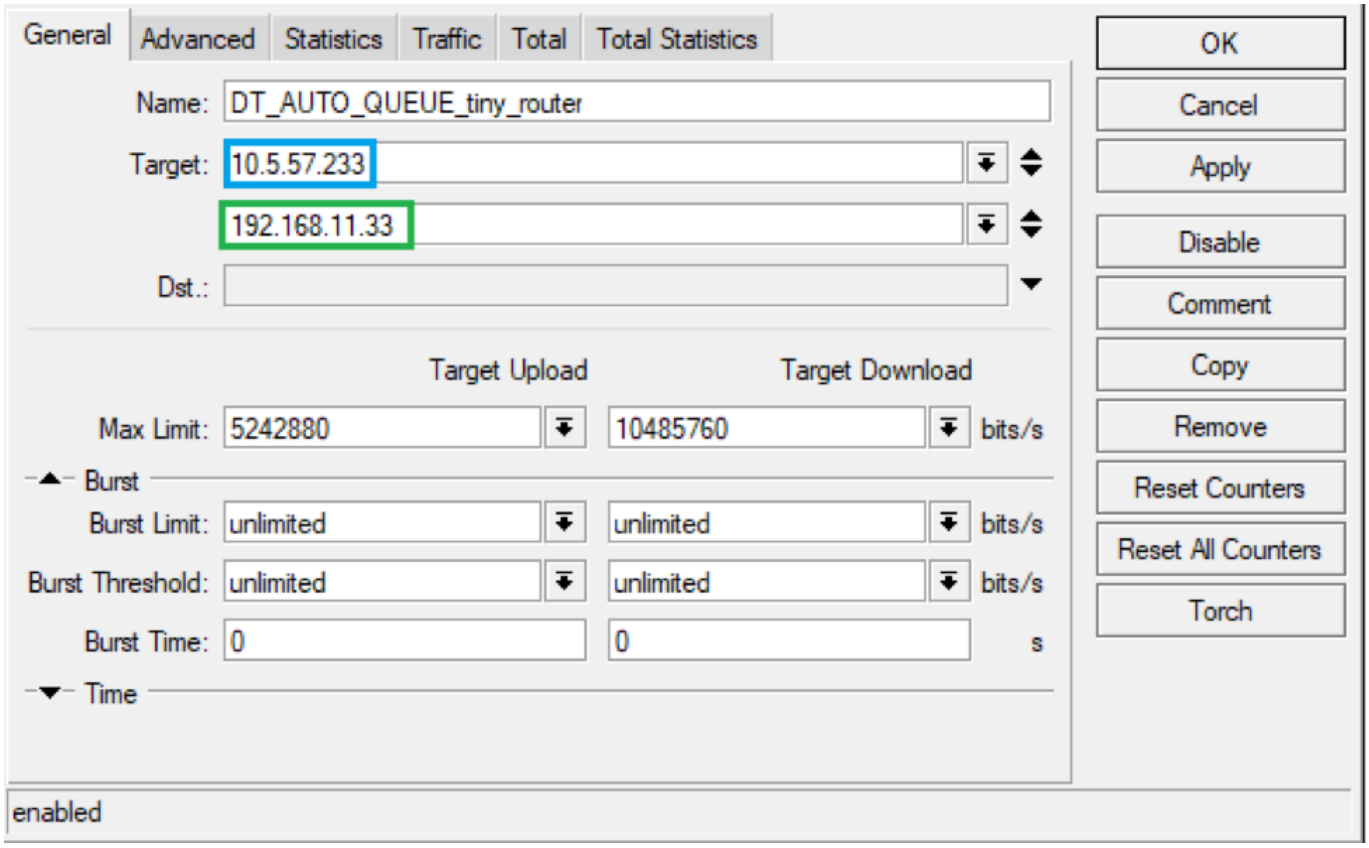

Data Account
Address
Pricing Details
Data Limits
Radius Attributes
Audit Trail
Test
Customer
VAS004-Vasilios Timmothy Vermeulen 2
User Type
Radius User Login
Connection Type
Wireless
Login Username
2125_552/21
Current Password
Change Password
Account Alias
Account / Device Alias
Account Description
Account / Device Description
Labels
Select One or more Labels
Traffic Counted via
Radius Accounting
Account Type
Normal Account
Data Product
10MBPS Home - 10Mb/s Uncapped
R 799.00
Cancellation Date
YYYY-MM-DD
Clear
Concurrent Sessions
Maximum number of concurrent sessions
Leave blank to use Data Product default value
IP Address Mode
Manually Enter IP Address
Fixed IP Address
Fixed IP Address
Ping
Bridged CPE IP Address
Bridged CPE IP Address
Ping
Queue Routers
Leave blank to use Data Product default Queue routers

Remember to click on the "**Save Changes**" button after you have made any changes. Once this has been completed, the static queue will automatically be generated on the MikroTik router.

1.3. What happens when there is a sub-account?

Should the data account have sub-accounts linked to it, the queue will be created containing the IP addresses of the main accounts as well as all sub-accounts. Please refer to the example below:




General
Advanced
Statistics
Traffic
Total
Total Statistics
Name: DT_AUTO_QUEUE_tiny_router
Target: 10.5.57.233
192.168.11.33
Dst.:
Target Upload
Target Download
Max Limit: 5242880 10485760 bits/s
Burst
Burst Limit: unlimited unlimited bits/s
Burst Threshold: unlimited unlimited bits/s
Burst Time: 0 0 s
Time
OK
Cancel
Apply
Disable
Comment
Copy
Remove
Reset Counters
Reset All Counters
Torch
enabled