

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.

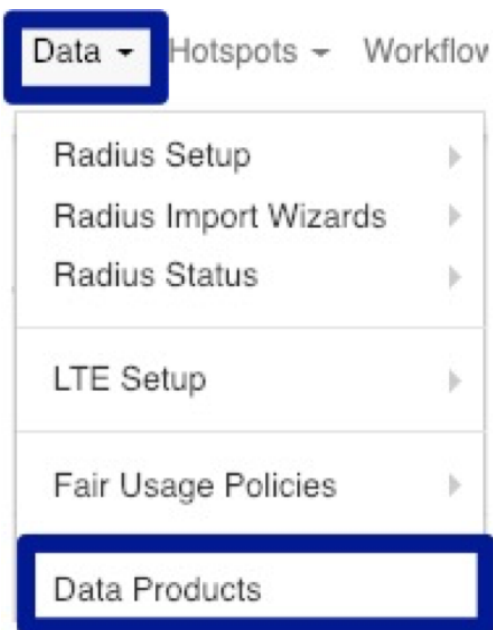
For more information, please refer to the following:

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

Normal Speed Limit

Capped Speed Limit

Queue Burst Enabled OFF

Speed Limit Policy

Speed Boost Policy

Normal IP Pool

Capped IP Pool

Concurrent Sessions

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.

Connection Type	Username	Data Product	Customer	Counting Type	Monthly Cost	Topup Cost	Account Type	Labels	Radius Status
Wireless	2125_552/21	10Mb/s Uncapped 10 Mb/s Down, 10 Mb/s Up	Vasilios Timothy Vermeulen 2	Radius	R 545.00 (R 473.91)	R 30.00 (R 26.09)	Normal Account		   

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:

Username: tiny router

Wireless

↳ sub tiny router

Package: 10Mb/s, 50MB Capped (Tiny Router) • R 100.00 (R 86.96)
(50 MB Monthly, 10 Mb/s Down, 5 Mb/s Up50 MB Monthly)

Caller ID:

Address:

GPS:

39.2 MB of 50 MB

78.5 %

109 changes

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					
enabled					

OK

Cancel

Apply

Disable

Comment

Copy

Remove

Reset Counters

Reset All Counters

Torch