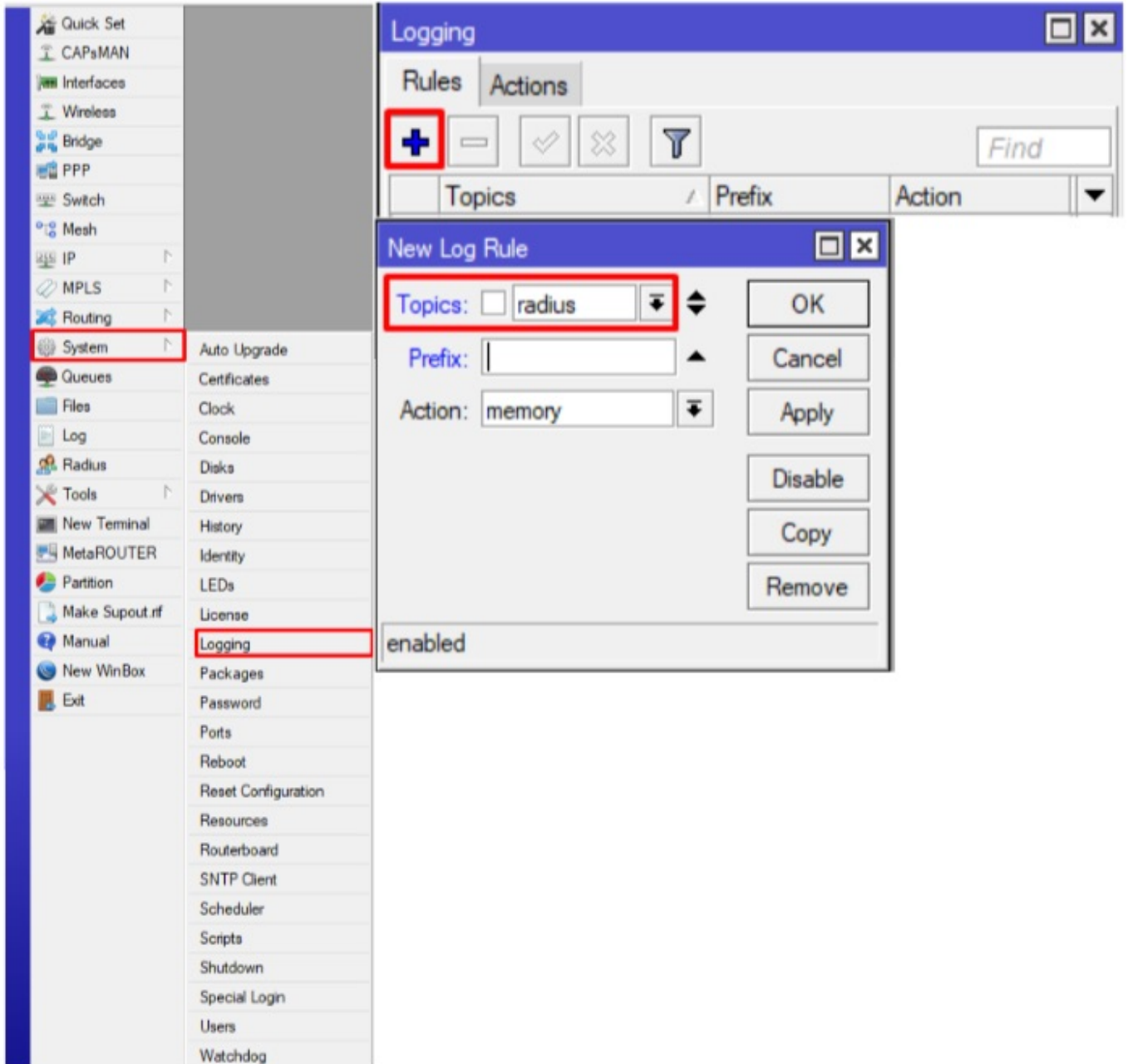


# Mikrotik Necessities

The following are settings that are needed and or should be enabled on your Mikrotik Router. The following does not need to be completed in any specific order.

## 1. Enable Radius Logging on the Mikrotik

The benefits of this is that when an issue does appear, yourself and the HeroTill team will be able to track and identify the issue faster and be able to assist.



## 2. IP Services are active and enabled correctly

Make sure all needed IP services are active and enabled correctly. Below is a list of items that needs to be set to active.

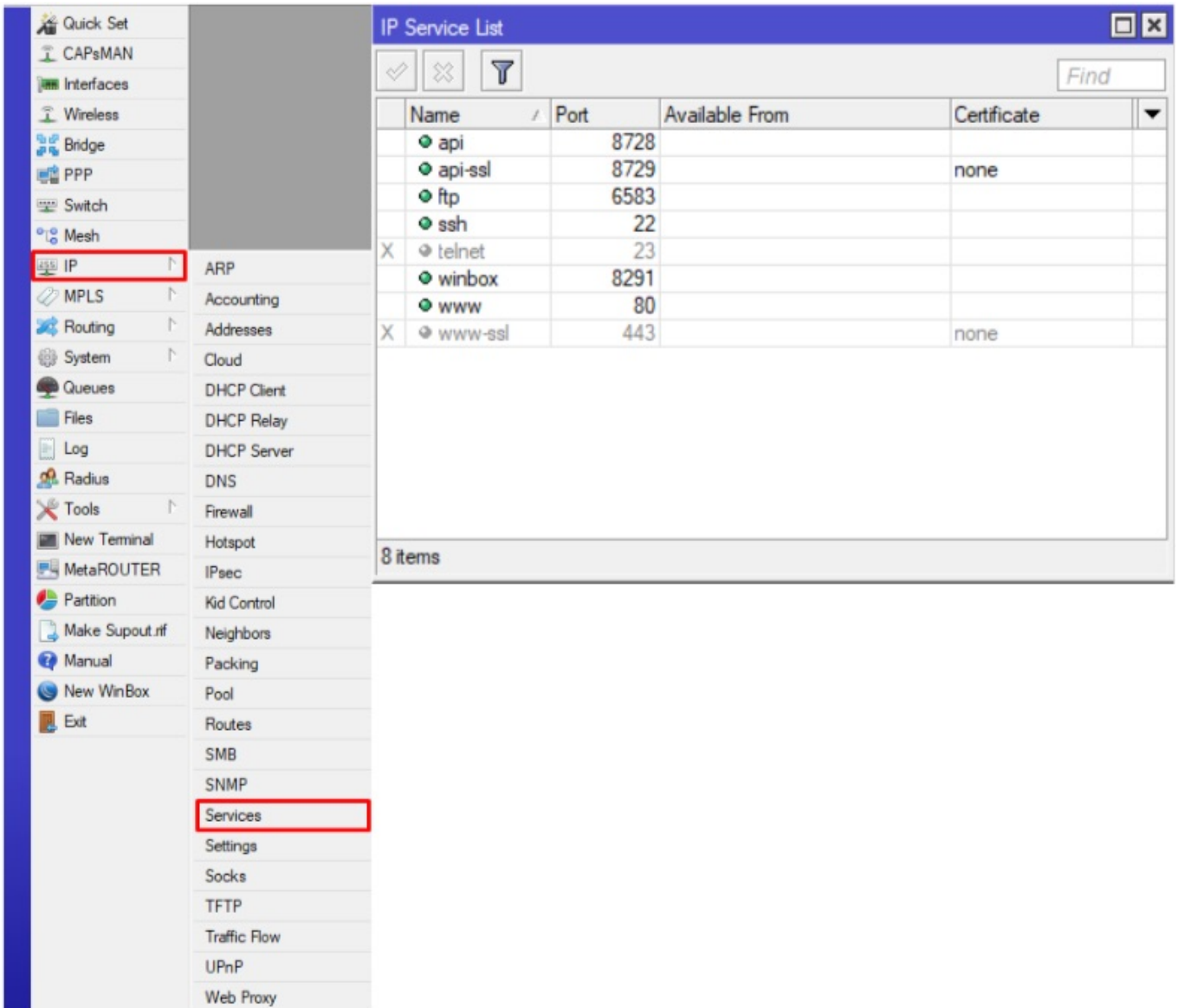
**API** This is for HeroTill to connect.

**API-SSL** This is for HeroTill to connect.

**FTP** This is for HeroTill to connect and pull backups/configs. (HeroTill will auto detect the port)

**SSH** Access

## Winbox Access



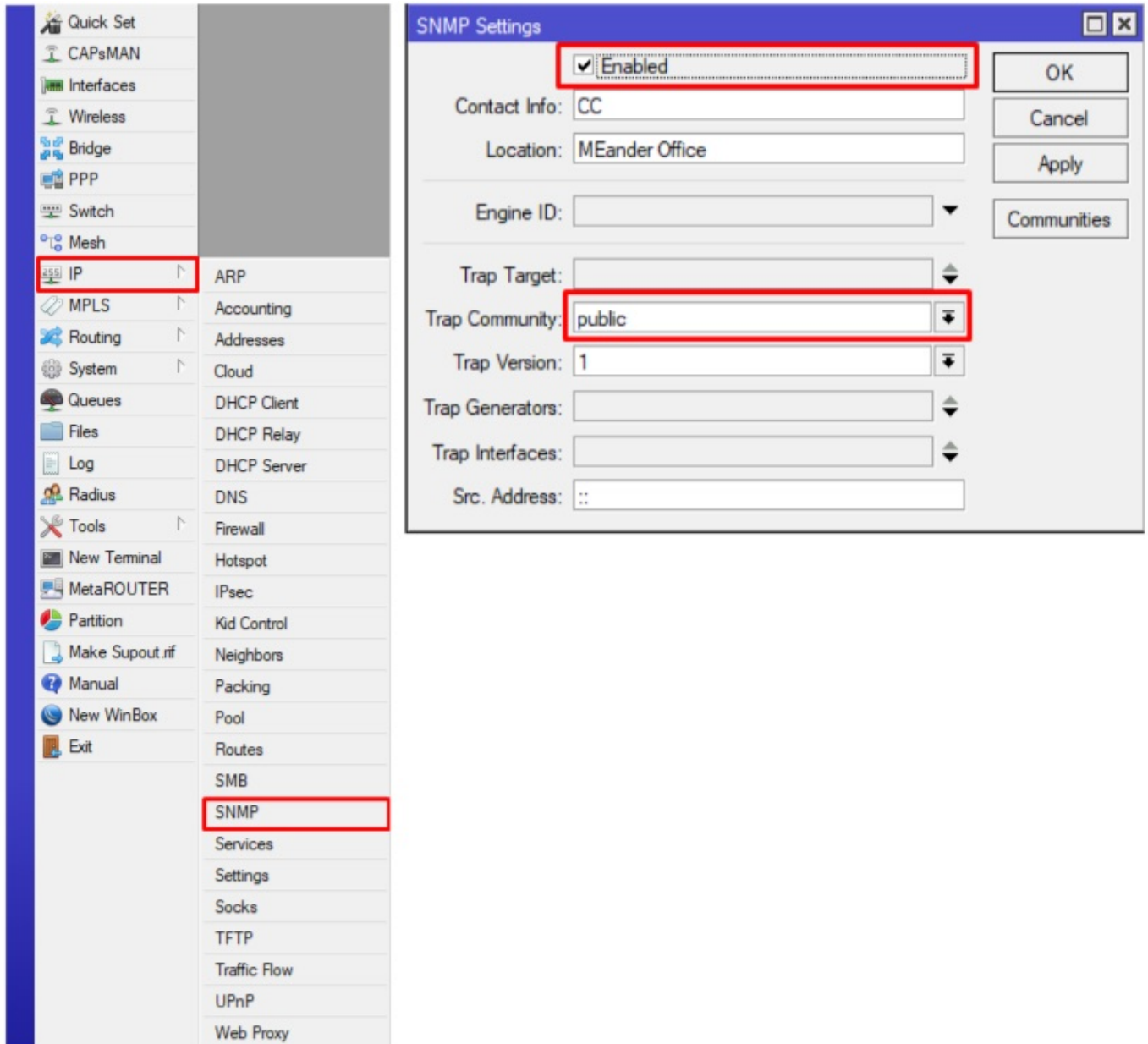
The screenshot displays the Mikrotik WinBox interface. On the left, a vertical menu lists various system components. The 'IP' menu item is highlighted with a red box. Below it, the 'Services' menu item is also highlighted with a red box. The main window, titled 'IP Service List', shows a table of services with columns for Name, Port, Available From, and Certificate. The table contains 8 items, with 'winbox' and 'www-ssl' marked with an 'X' in the first column.

	Name	Port	Available From	Certificate
	api	8728		
	api-ssl	8729		none
	ftp	6583		
	ssh	22		
X	telnet	23		
	winbox	8291		
	www	80		
X	www-ssl	443		none

### 3. Enabled SNMP:

Please ensure that you SNMP is enabled. Simple Network Management Protocol (SNMP) is a popular protocol for network management. It is used for collecting information from and configuring, network devices, such as servers, printers, hubs, switches, and routers on an Internet Protocol (IP) network.

HeroTill uses this to gain information about the device.



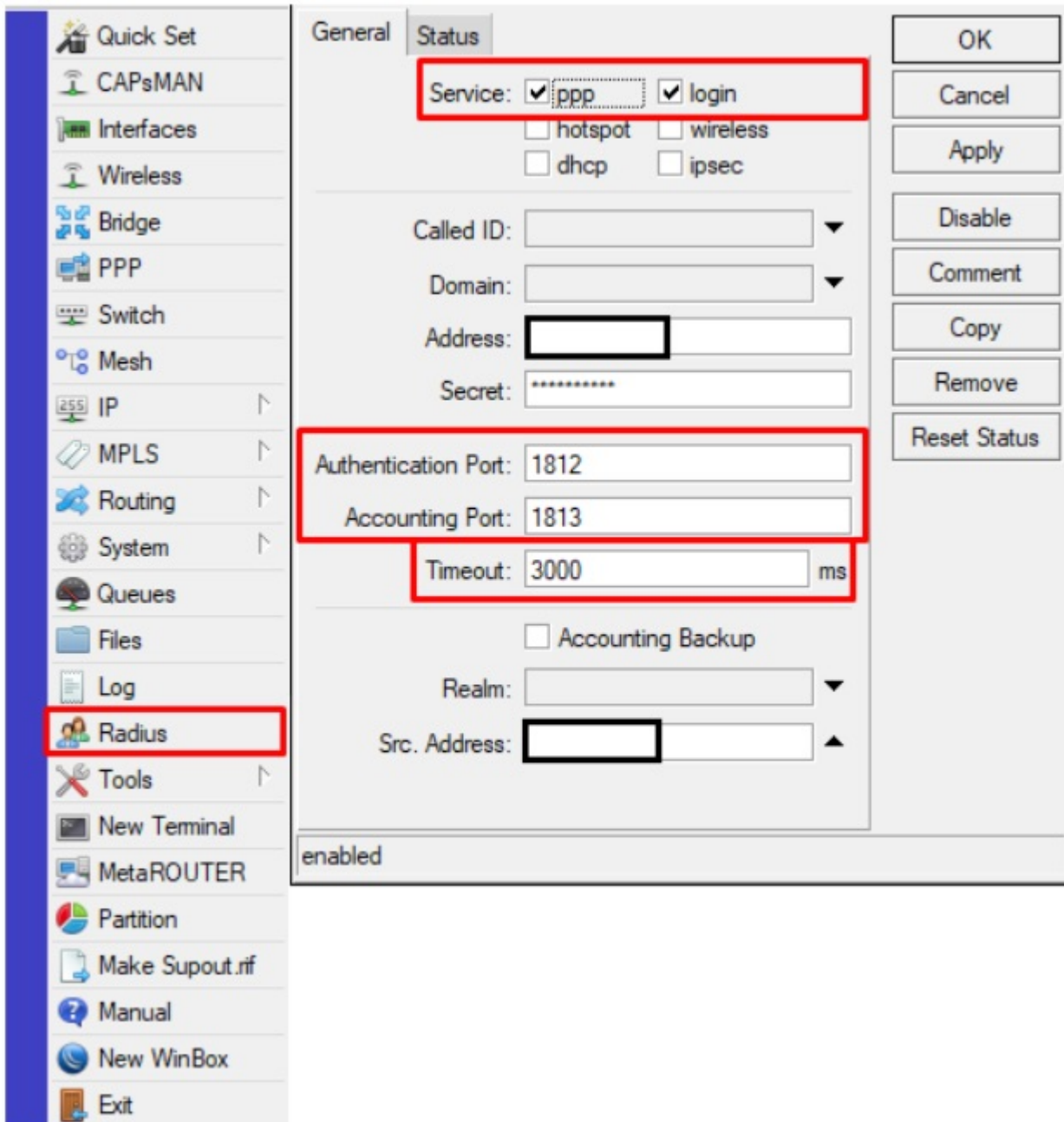
## 4. Radius settings and Timeouts

Please ensure the correct ports are allowed and that the timeouts are set for Radius for Login. You will need to enable the following

- PPP
- Login

**Please set the following accordingly:**

- Authentication port: 1812
- Accounting port: 1813
- Time-out: 3000 ms





## 5. PPP Accounting Settings:

Please ensure that the PPP accounting is set to use “**Accounting**” and the **Interval** set to 00:05:00 as this allows the account updates to take place correctly.

The screenshot displays the Mikrotik WinBox interface for configuring PPP. The left sidebar shows the 'PPP' menu item highlighted. The main window is in the 'Secrets' tab, showing a table of PPP secrets. A dialog box titled 'PPP Authentication&Accounting' is open, with the following settings:

- Use Radius
- Accounting
- Use Circuit ID in NAS Port ID
- Interim Update: 00:05:00

Name	Password	Service	Caller ID	Profile	Local Address
keepalive	*****	pptp		default	10.5.57.1

## **6. On HeroTill:**

Apart from The Mikrotik please have a look and adjust the following settings accordingly to what you prefer in relation to Stale Session timeout removal and Interim Update.

