



Stand Alone AX Access Point Set up

Upgrade and Package essentials:

1. Upgrade to latest RouterOS V7 (stable/long-term).

**if long-term is available, it is the best version to use.

File List

File Cloud Backup

Backup Restore Upload...

File Name	Type	Size	Creation Time
routeros-7.11.2-arm64.npk.tmp	package	5.0 MiB	Jan/02/1970 00:48:08

Uploading Files

Uploading routeros-7.11.2... (5.3 MiB of 13.2 MiB at 5.89 Mbps)

Cancel

Upload the upgrade file on the router

1 item 37.4 MiB of 128.5 MiB used 70% free

Mesh

IP

IPv6

MPLS

Routing

System

Queues

Files

Log

RADIUS

Tools

New Terminal

Dot1X

Partition

Make Supout.tif

New WinBox

Exit

Certificates

Clock

Console

Disks

Health

History

Identity

LEDs

License

Logging

NTP Client

NTP Server

Note

Packages

Password

Ports

Reboot

File List

File Cloud Backup

Backup Restore Upload...

File Name	Type	Size	Creation Time
routeros-7.11.2-arm64.npk	package	13.2 MiB	Jan/02/1970 00:48:20

1 item 46.7 MiB of 128.5 MiB used 63% free

Reboot

Do you want to reboot the router?

Yes No

once uploaded perform system>reboot to upgrade



2. Upgrade Router firmware as well.

Upgrade:

The screenshot shows the Mikrotik WinBox interface. On the left, the 'System' menu item is highlighted with a red box. In the main window, the 'RouterBOARD' configuration window is open, showing fields for Model (C52G-5HaxD2HaxD), Serial Number (HE908HCZBM3), Firmware Type (ipq6000), Factory Firmware (7.7), Current Firmware (7.7), and Upgrade Firmware (7.11.2). The 'Upgrade' button is highlighted with a red box. A confirmation dialog box titled 'Upgrade' is displayed, asking 'Do you really want to upgrade firmware?' with 'Yes' and 'No' buttons. The 'RouterBOARD' menu item in the left sidebar is also highlighted with a red box.

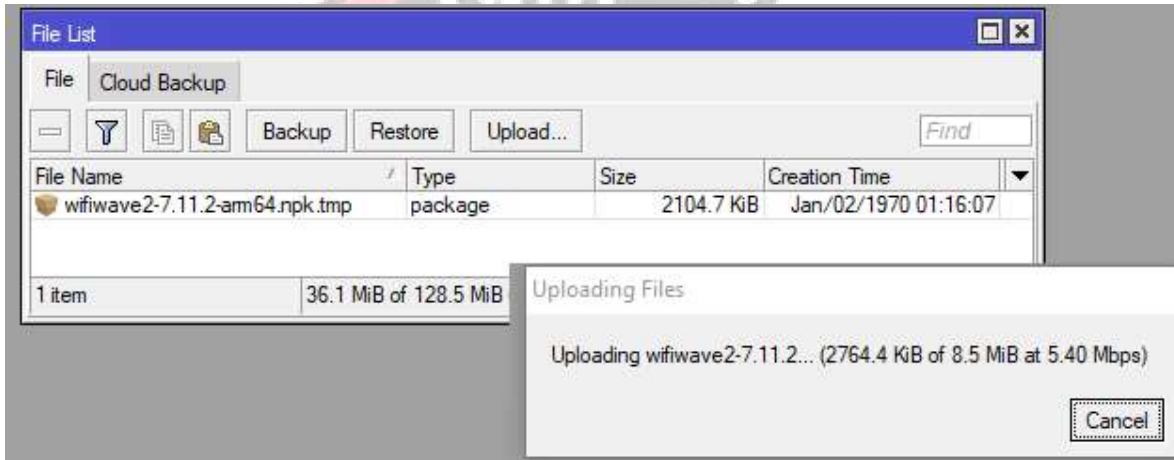
Reboot for upgrade to take effect:

The screenshot shows the Mikrotik WinBox interface. On the left, the 'System' menu item is highlighted with a red box. In the main window, the 'RouterBOARD' configuration window is open, showing the same fields as the previous screenshot. The 'Reboot' button is highlighted with a red box. A confirmation dialog box titled 'Reboot' is displayed, asking 'Do you want to reboot the router?' with 'Yes' and 'No' buttons. A red message at the bottom of the RouterBOARD window reads: 'Firmware upgraded successfully, please reboot for changes to take effect!'. The 'Reboot' menu item in the left sidebar is also highlighted with a red box.

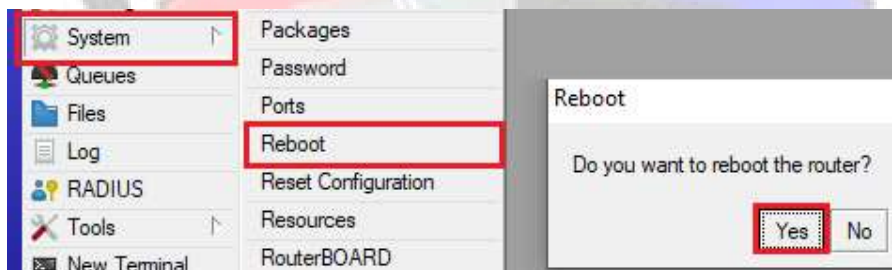


3. Install wifivave2 (extra package)

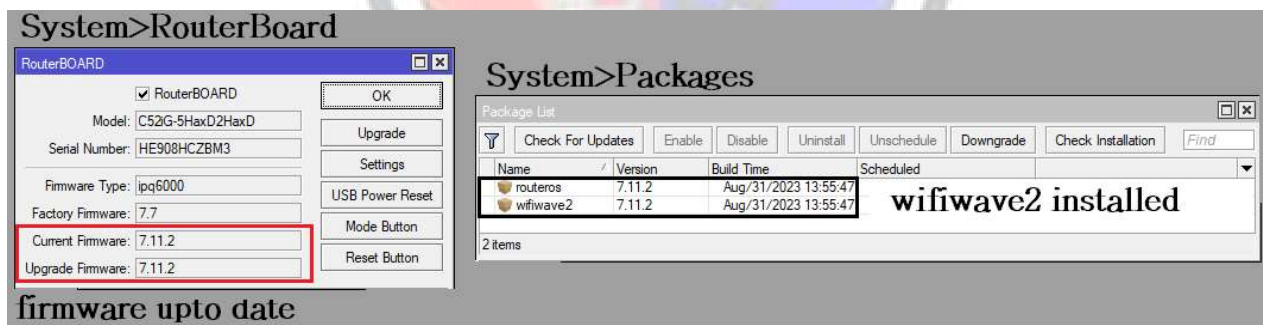
Upload wifivave2 extra package:



Reboot for installation to take effect:



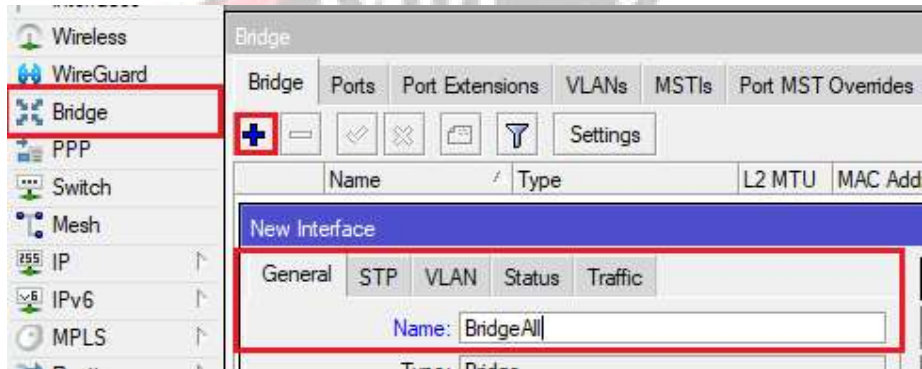
Wifivave2 Package installation, RouterOS and firmware upgrade check:



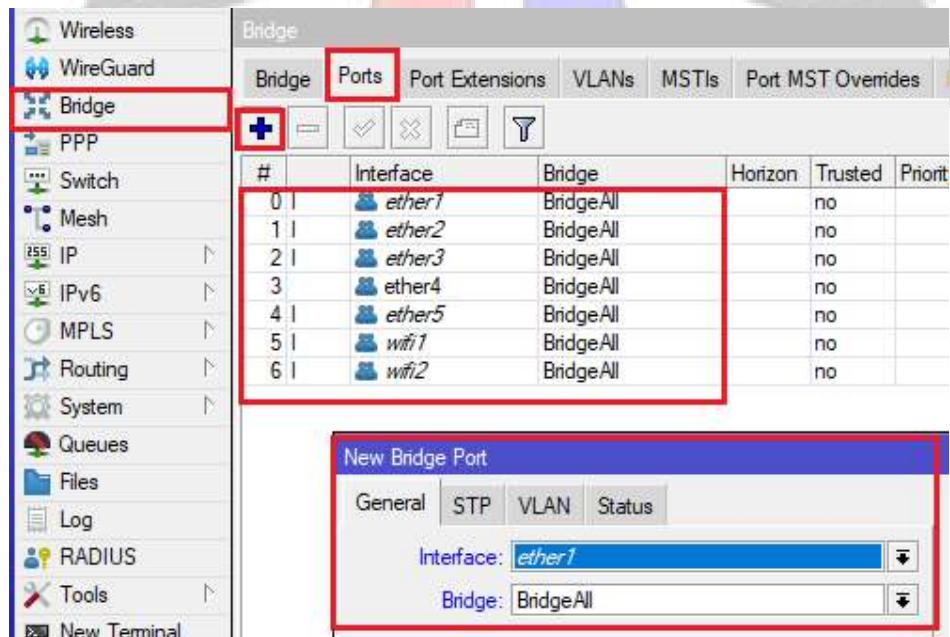


Optional depending on the set up:

4. Create a Bridge (virtual connector on all ports)



5. Add all interfaces including wireless.





Actual AP set up:

SSID	Sample WIFI
Password	1234temp

6. Create Wifi Password profile named "wifipass".

The screenshot shows the Mikrotik WinBox interface. On the left, the 'Wireless' menu is expanded. The main window displays the 'Security' tab for a 'WiFi Wave2 Security' profile named 'wifipass'. The configuration is as follows:

- Name: wifipass
- Authentication Types: WPA PSK, WPA2 PSK, WPA EAP, WPA2 EAP, WPA3 PSK, OWE, WPA3 EAP, WPA3 EAP 192
- Encryption: TKIP, CCMP, GCMP, CCMP 256, GCMP 256
- Group Encryption: CCMP
- Group Key Update: (empty)
- Passphrase: 12345temp

7. Create Channel ranges.

All Channel (can be used for both 2.4Ghz & 5Ghz)

The screenshot shows the Mikrotik WinBox interface. The 'Channel' tab is selected in the 'Wireless Tables' section. A table lists the channel ranges:

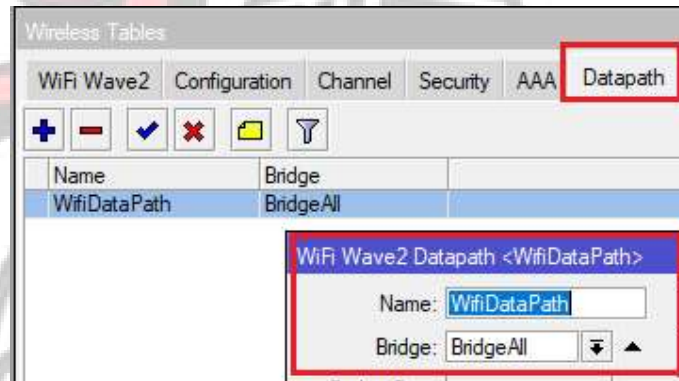
Name	Band	Channel Width	Frequency
AutoChannel			2300-7300
Auto(2.4Ghz)	2GHz AX	20/40MHz	2400-2484
Auto(5Ghz)	5GHz AX	20/40/80MHz	5150-5895

Below the table, three configuration windows are shown for each channel range:

- WiFi Wave2 Channel <AutoChannel>**: Name: AutoChannel, Band: (empty), Channel Width: (empty), Frequency: 2300-7300, Secondary Frequency: (empty), Skip DFS Channels: all.
- WiFi Wave2 Channel <Auto(2.4Ghz)>**: Name: Auto(2.4Ghz), Band: 2GHz AX, Channel Width: 20/40MHz, Frequency: 2400-2484, Secondary Frequency: (empty), Skip DFS Channels: (empty).
- WiFi Wave2 Channel <Auto(5Ghz)>**: Name: Auto(5Ghz), Band: 5GHz AX, Channel Width: 20/40/80MHz, Frequency: 5150-5895, Secondary Frequency: (empty), Skip DFS Channels: all.



8. Create Datapath profile named: "WifiDataPath" calling created bridge.



9. Configure AP. **(Wifi Wave2 (double click) wifi1 /wifi2)**

(General) Mode: AP

(Configuration) SSID: Sample WIFI

(Channel) Channel: "Auto Channel" or "Auto (2.4 GHz)" or "Auto (5 GHz)"

(Security) Security: "wifipass" (Wifi Profile)

(Datapath) Datapath:"WifiDataPath" (Datapath Profile)



The screenshot displays the Mikrotik WinBox interface for configuring WiFi interfaces. At the top, a table lists the wireless tables: 'WiFi Wave2'. Below this, two configuration windows are shown side-by-side, both for 'Interface <wifi1>'. The left window is for 'wifi1' and the right for 'wifi2'. Both are in 'ap' mode with SSID 'Sample WIFI' and security 'wifipass'. The primary difference is the channel: 'Auto(5Ghz)' for wifi1 and 'Auto(2.4Ghz)' for wifi2. The 'Datapath' for both is 'WifiDataPath'. Red boxes highlight the 'WiFi Wave2' tab, the 'Configuration' tab, and the 'Channel' dropdown menu in both windows. A red arrow points from the 'wifi1' entry in the table to the configuration window on the left.

**Same SSID, Same Password and Same Network Setup for 2.4Ghz and 5Ghz AX wifi Set-up