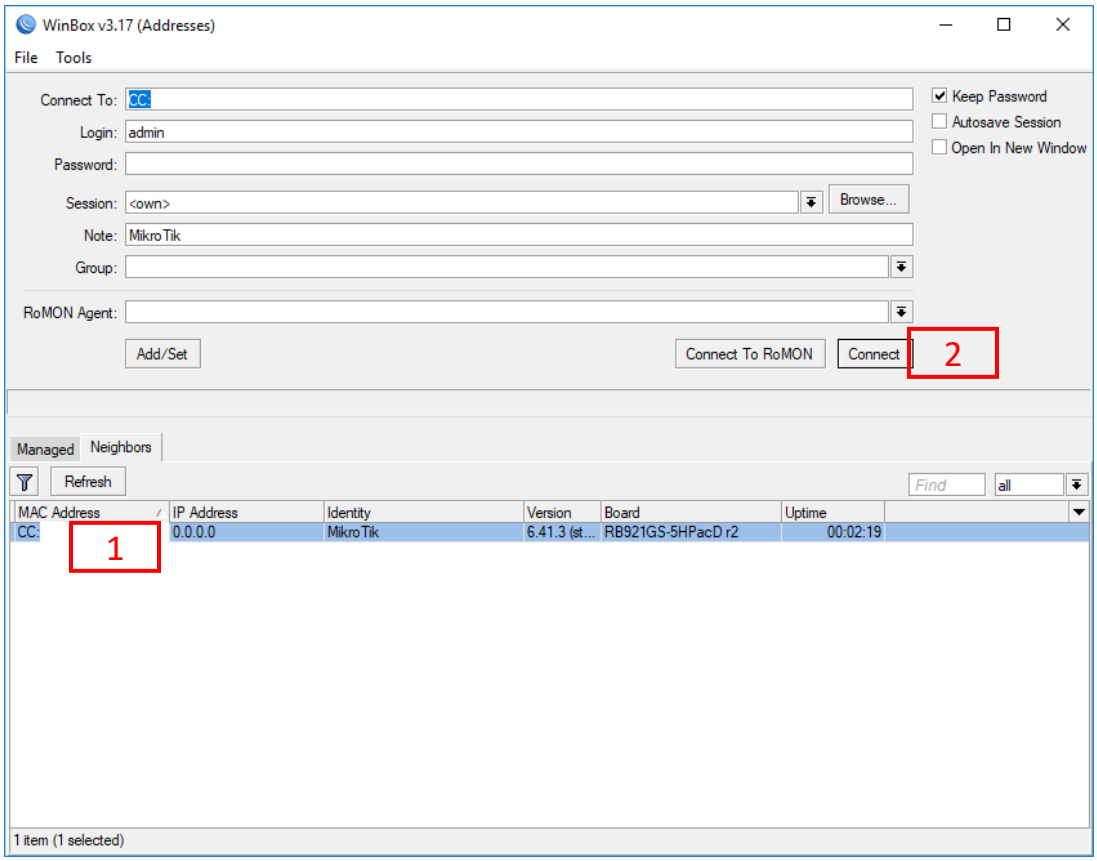
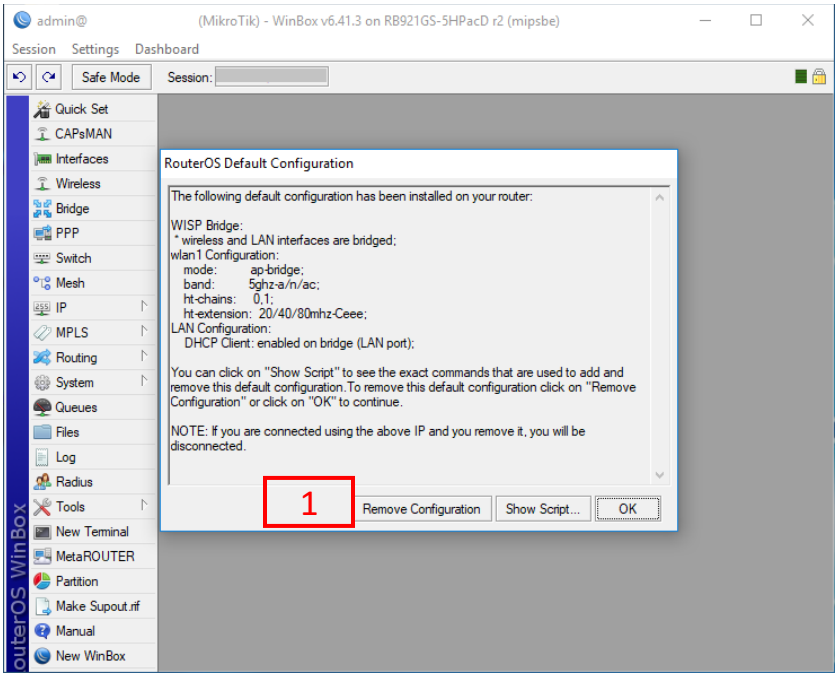
Wireless Edge Network Configuration (connected to P2P uplink)

This document provides step by step guide to configure an edge wireless access point (RBwAPG), which is connected to a point-to-point wireless uplink (RB921GS-5HPacD-15S (Access point) and RBSXTsq5nD (CPE)).

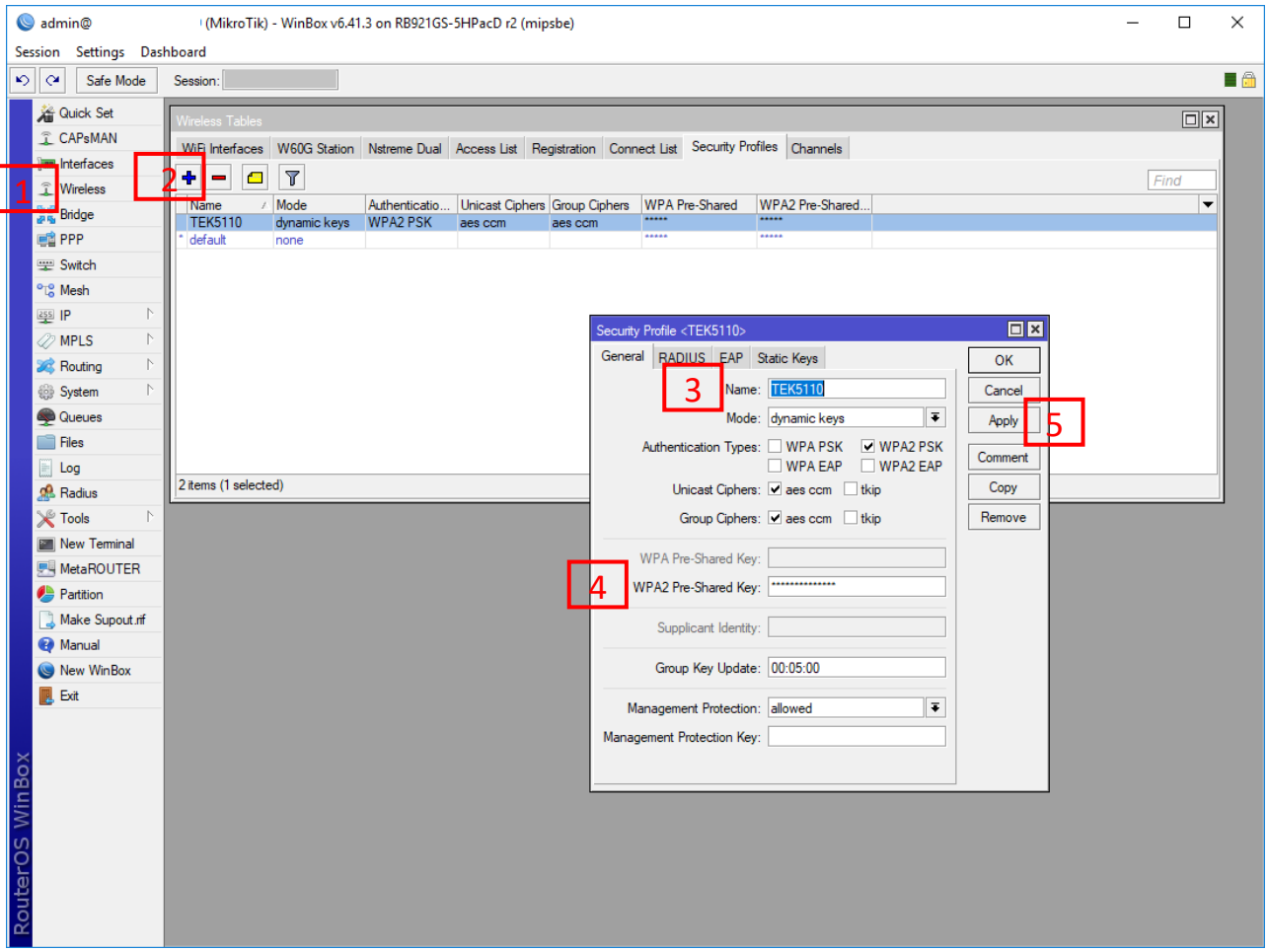
1. Connect to RBwAPG with Winbox (use MAC address of RBwAPG in Winbox). Use following default “admin” username and empty password to connect.



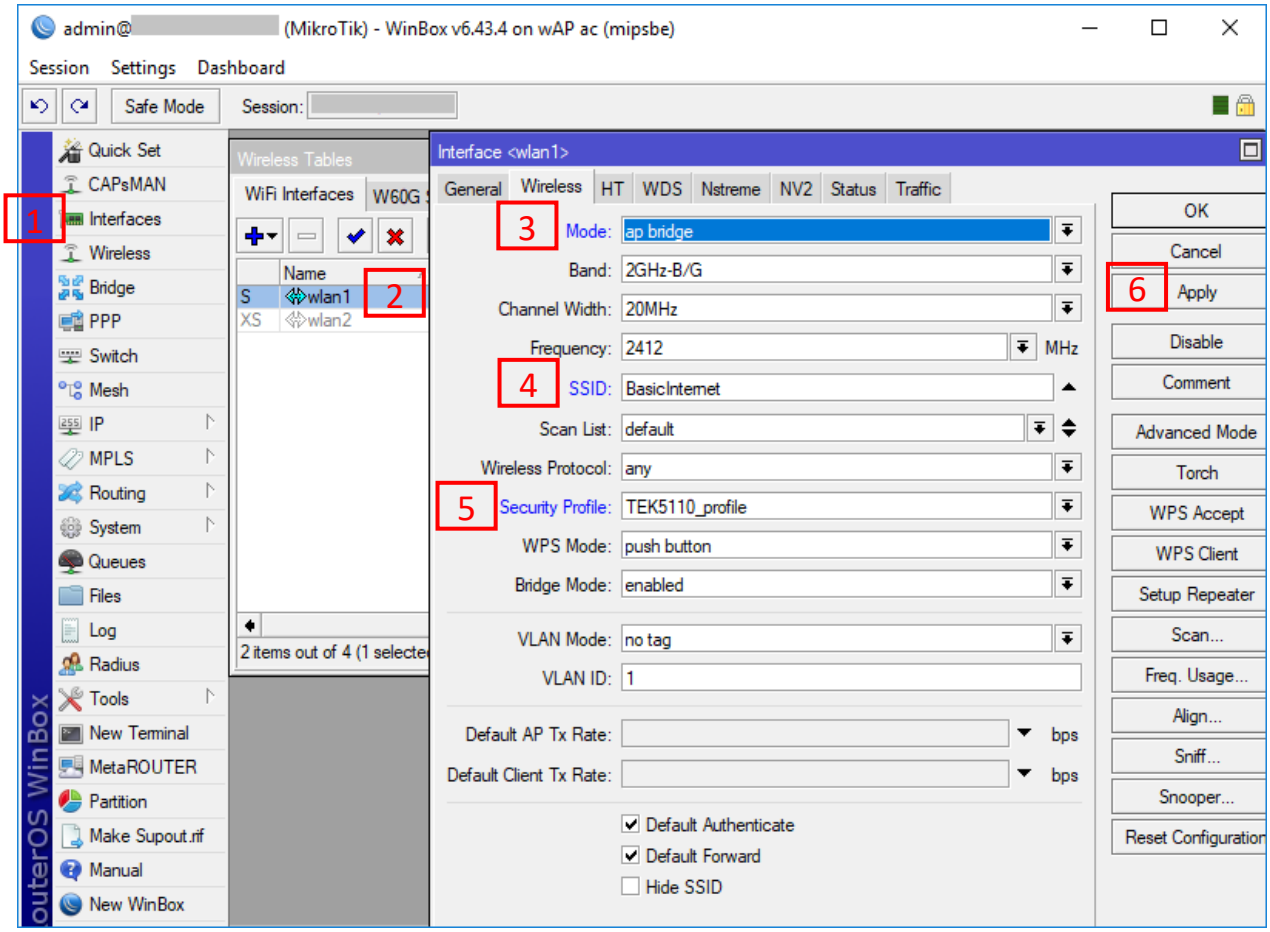
2. Please remove default configuration after login to continue with clean slate.



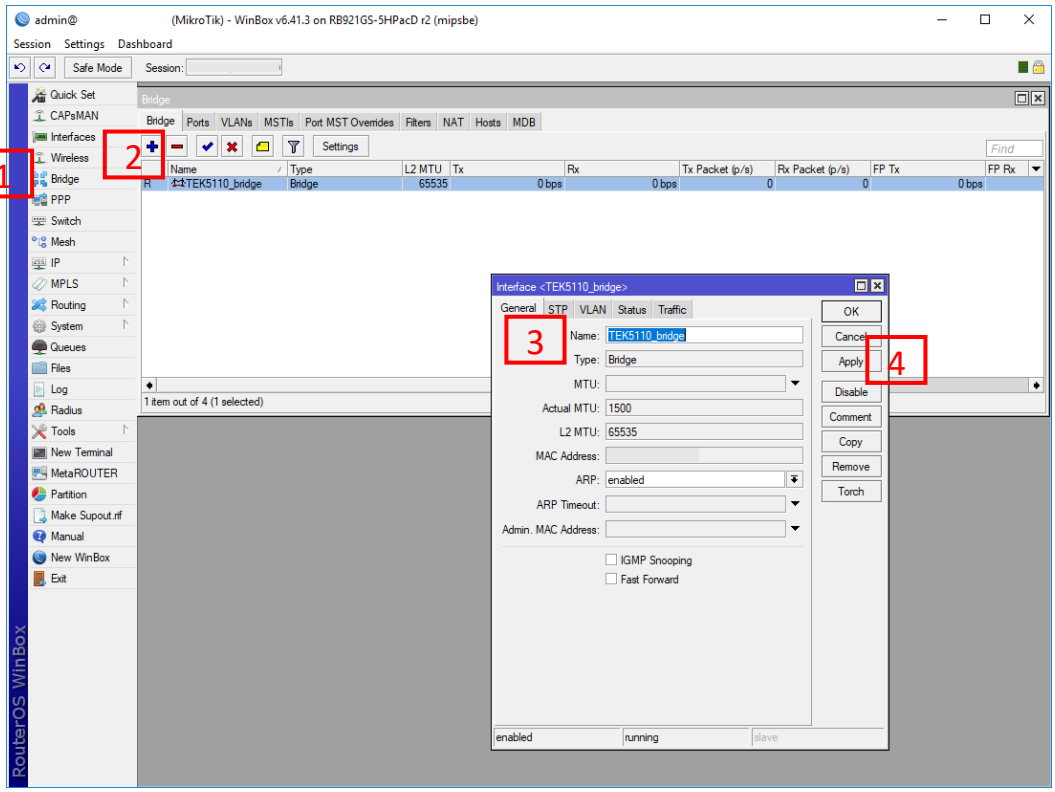
3. Open Wireless tab in order to configure access point so that other clients can connect to RBwAPG. First, we need to create a new security profile to authenticate wireless clients.



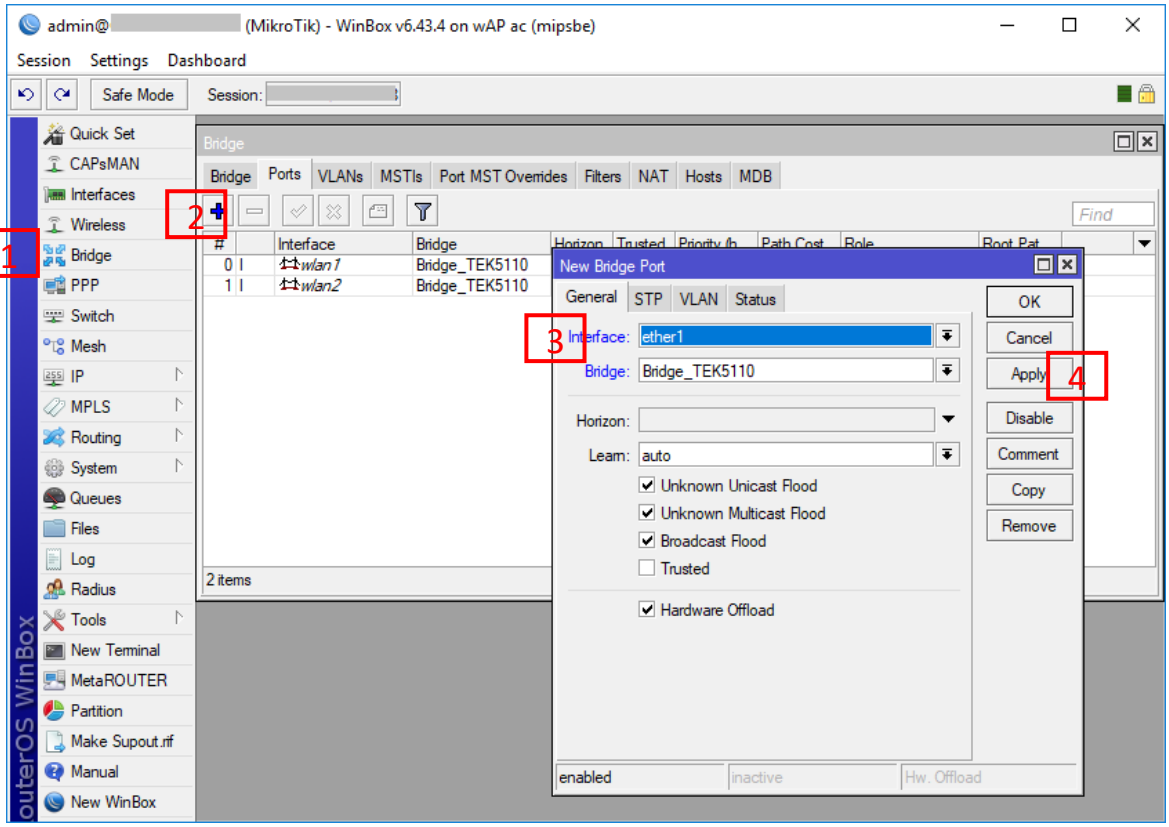
4. Then, enable “wlan1” and “wlan2” interface and configure wireless interface to be access point bridge. In the Wireless tab, select an SSID e.g. “BasicInternet” and select security profile “TEK5110” that you have created in previous step.


admin@ (MikroTik) - WinBox v6.43.4 on wAP ac (mipsbe)
Session Settings Dashboard
Safe Mode
Session:
Quick Set
CAPsMAN
Interfaces
Wireless
Bridge
PPP
Switch
Mesh
IP
MPLS
Routing
System
Queues
Files
Log
Radius
Tools
New Terminal
MetaROUTER
Partition
Make Supout.rif
Manual
New WinBox
RouterOS WinBox
1
Wireless Tables
WiFi Interfaces
W60G
Name
S wlan1
XS wlan2
2
2 items out of 4 (1 selecte
Interface <wlan1>
General Wireless HT WDS Nstreme NV2 Status Traffic
3
Mode: ap bridge
Band: 2GHz-B/G
Channel Width: 20MHz
Frequency: 2412 MHz
4
SSID: BasicInternet
Scan List: default
Wireless Protocol: any
5
Security Profile: TEK5110_profile
WPS Mode: push button
Bridge Mode: enabled
VLAN Mode: no tag
VLAN ID: 1
Default AP Tx Rate: bps
Default Client Tx Rate: bps
Default Authenticate
Default Forward
Hide SSID
OK
Cancel
6
Apply
Disable
Comment
Advanced Mode
Torch
WPS Accept
WPS Client
Setup Repeater
Scan...
Freq. Usage...
Align...
Sniff...
Snooper...
Reset Configuration

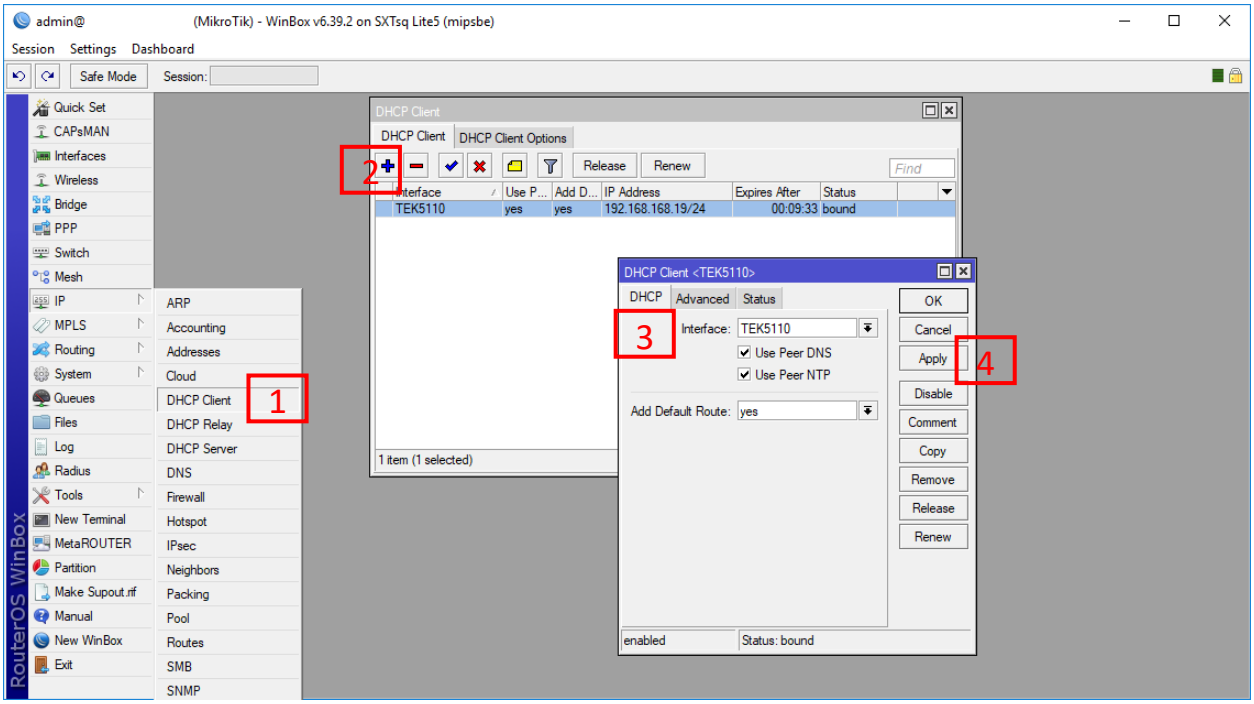
5. Now, create a bridge interface “TEK5110” in order to connect wireless and Ethernet interfaces together.



6. Then, add “wlan1”, “wlan2” and “ether1” to the bridge interface that you have created in previous step.



1. Finally, configure a DHCP client for bridge interface “TEK5110” so that we can connect to the RBwAPG remotely from RB921GS network.



Now, our edge wireless access point is connected to our point-to-point wireless uplink so clients can connect to our wireless infrastructure. Of course, you can use MAC address reservation option in the RB921GS DHCP server in order to lease specific IP addresses to each device in the wireless infrastructure.