Accelerated Cellular Router as a WiFi Repeater - WDS

6350-SR

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Difficulty level: *Intermediate*

Goal

To use an Accelerated cellular router as a WiFi repeater utilizing WiFi as WAN.

Setup

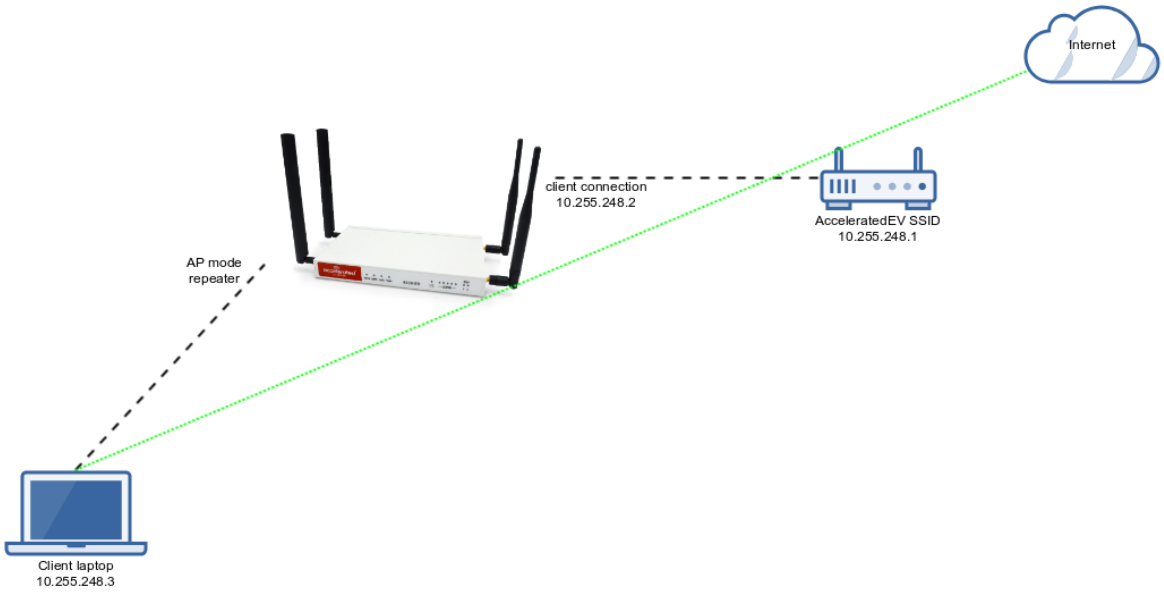
This article assumes the LAN ports are operating under default settings, which provide DHCP connectivity to devices connected to the Accelerated cellular router's LAN ports. For more details on the default settings of the router, see the *Default Settings* section of the User Manual.

You will need to establish the following details before configuring the Accelerated cellular router.

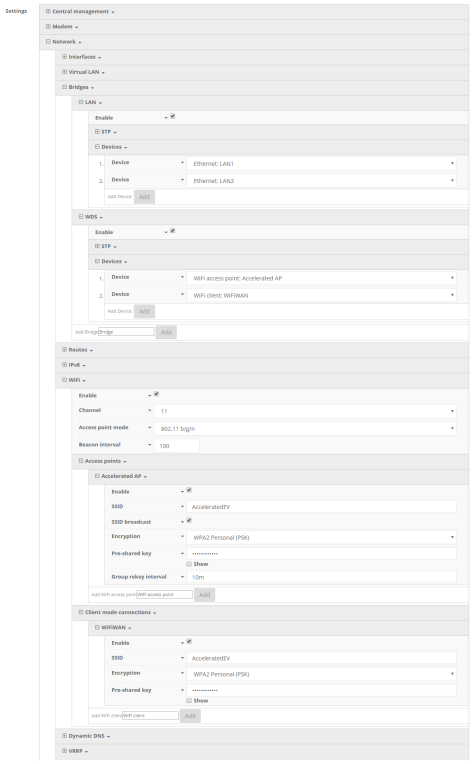
- The SSID you want the Accelerated cellular router to connect to, including the wireless channel the SSID is broadcasted on.
- The authentication credentials for the SSID.
  - Supported encryption types for WiFi as WAN are open (unencrypted), WPA, and WPA2 PSK
- The priority of the ***WiFi as WAN*** interface (i.e. should it take precedence over the WAN Ethernet port).

Sample

The following diagram shows a sample setup of an Accelerated cellular router establishing a client connection to a separate wireless router's SSID (AcceleratedEV), and then using that interface for a ***WiFi as WAN*** connection. A laptop is shown connected via Wifi to the Accelerated cellular router as an example end-user device utilizing the ***WiFi as WAN and Wifi Repeater*** connections.



Sample Configuration



Open the configuration profile for the Accelerated cellular router and make the following changes.

1. Under ***Network -> WiFi -> Channel***, select the channel used by the secondary wireless router's SSID.
2. Under ***Network -> WiFi -> Client mode connections***, create a new entry named ***WiFiWAN***. The name can be different if desired.

3. Under the new client mode connection entry, enter in the SSID and authentication credentials for the SSID of the secondary wireless router.
4. Under ***Network -> WiFi -> Access Points -> Accelerated AP,*** enter in the **same** SSID and authentication credentials for the SSID from the secondary wireless router.
5. Under ***Network -> Bridges -> create a new entry named WDS.*** The name can be different if desired.
6. Under ***Network -> Bridges -> WDS -> add a Device.***
7. Set the ***Device*** for the new interface to ***WiFi Access Point: Accelerated AP***
8. Under ***Network -> Bridges -> WDS -> add a Device.***
9. Set the ***Device*** for the new interface to ***WiFi Client: WiFiWAN***

Next, under ***Network -> Interfaces***, create a new entry named ***WiFiWAN***.

1. Set the ***Zone*** for the new interface to ***External***.
2. Set the ***Device*** for the new interface to ***WiFi Client: WiFiWAN***
3. Under ***IPv4***, set the ***Interface type*** to ***DHCP address***.
    1. *NOTE:* This will trigger the Accelerated cellular router to obtain a DHCP connection to the secondary wireless router's SSID network.
4. ***Optional***: Set the ***Metric*** to ***0*** to make this the primary WAN interface. Doing so will make both the WAN Ethernet and cellular modem (if used) backup WAN connections.
5. Click ***Save***.