



Configuring Multiple Custom APNs

6350-SR

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Difficulty Level: *Intermediate*

Minimum Firmware: *18.4.54*

Goal

To demonstrate the use of the custom Access Point Name (APN) list by setting up three custom APNs with different authentication methods on a modem interface. More can be specified if necessary.

Setup

This sample configuration will use hypothetical APNs on one single modem interface. In normal practice, this configuration may not be common. However, it can demonstrate a variety of use cases.

APN	Authentication	Username	Password
apn.internet.none	None	-	-
apn.internet.auto	Automatic	autouser	-
apn.internet.pap	Password Authentication Protocol (PAP)	papuser	pappasswd

Sample Configuration

In the device's configuration page, navigate to **Network > Interface > Modem**.

- After opening the **APN list**, click **Add** next to **Add APN**. This is to add an APN to the list. More than one APN can be added in this section. In the case of this sample configuration, press **Add** two (2) more times.
- In the first APN configuration section:
 - Set **APN** to *apn.internet.none*.
 - Leave **IP version** as *Automatic* to ensure both IPv4 and IPv6 packets are allowed from this APN.
 - Leave **Authentication method** as *None*. This will be the most common setting for majority of the consumer APNs.
- In the second APN configuration section:
 - Set **APN** to *apn.internet.auto*.
 - Leave **IP version** as *Automatic* to ensure both IPv4 and IPv6 traffic are allowed from this APN.
 - Leave **Authentication method** as *Automatic*. The *Automatic* selection will determine what type of authentication the APN is employing and selecting the appropriate method for the connection.
 - Set **Username** to *autouser*.
 - Password** can remain empty if the APN does not require one.

4. In the third APN configuration section:

- Set **APN** to *apn.internet.pap*.
- Leave **IP version** as *Automatic* to ensure both IPv4 and IPv6 packets are allowed from this APN.
- Leave **Authentication method** as *PAP*. This ensures the modem, when connecting to this APN, will use PAP for its authentication method.
- Set **Username** to *papuser*.
- Set **Password** to *pappasswd* as this hypothetical APN requires a password.

5. When all settings have been made, press **Save**.

The APNs in the list can be reordered by drag and dropping the APN section up/down. This governs the APN order that the modem will attempt to connect.

The **APN list only** check box can be optionally enabled if the modem interface should only use the customised APN list and not the inbuilt provider list. Otherwise, the modem will first attempt to establish a connection with the APNs in the APN list. If connection cannot be established, the APNs in the inbuilt provider list will be used.

The screenshot displays the 'APN list only' configuration page. At the top, there is a checkbox labeled 'APN list only' which is currently unchecked. Below this is a section titled 'APN list' containing three entries:

- 1. apn.internet.none**:
 - APN: apn.internet.none
 - IP version: Automatic
 - Authentication method: None
- 2. apn.internet.auto**:
 - APN: apn.internet.auto
 - IP version: Automatic
 - Authentication method: Automatic
 - Username: autouser
 - Password: (empty) with a 'Show' checkbox.
- 3. apn.internet.pap**:
 - APN: apn.internet.pap
 - IP version: Automatic
 - Authentication method: PAP
 - Username: papuser
 - Password: pappasswd with a checked 'Show' checkbox.

At the bottom of the list, there is an 'Add APN:' label followed by an 'Add' button.