Separating Mobile Data Traffic: Using First SIM Card For LAN Traffic and Second SIM Card For WLAN Traffic

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Introduction

This article provides a guide on how to separate mobile data traffic by using first SIM card for LAN traffic and second SIM card for WLAN traffic. These configurations are specifically made for RUTX12.

- First you want to make sure that you have **ADVANCED mode** enabled. This will allow you to choose from a larger variety of settings.

Configuring VLANs

- Go to **Network → VLAN**
- Go to **VLAN → Port Based**

- Click **Add**
- Leave VLAN ID as it is, for now, no need to change anything here

Creating A Second LAN Interface

- Go to **Network → Interfaces**
- Under **Add New Instance** enter the name for your new LAN interface (we are going to use "lan2" for this example) and click **Add**

- Under the **General Settings** tab, set **Protocol** to **Static**, and enter desired IPv4 parameters for your VLAN

- Click on **Setup DHCP Server** to enable DHCP for your VLAN
- Go to **Physical Settings** and click on **Interface**, select your VLAN interface (**N.B.** if your **VLAN ID is 3**, the name for your physical interface will be **eth0.3** and so on)

Configuring Advanced Static Routes

- Go to **Network → Routing → Advanced Static Routes**
- Under the "Add New Instance" tab, enter the ID and name for your new Routing Table, for our use, we will need 2 Routing Tables
- Create a routing table with these parameters: **ID**: 100, **Name**: first

- Click **Add**
- In the configuration window, under the **Static IPV4 Routes** tab, click **Add**
- Enter these parameters: **Interface**: mob1s1a1, **Target**: 0.0.0.0, **Netmask**: 0.0.0.0

- Leave the rest of the parameters on their default values and click **Save & Apply**
- Create a second routing table with these parameters: **ID**: 200, **Name**: second

- Click **Add**
- In the configuration window, under the **Static IPV4 Routes** tab, click **Add**
- Enter these parameters: **Interface**: mob2s1a1, **Target**: 0.0.0.0, **Netmask**: 0.0.0.0

- Leave the rest of the parameters on their default values and click **Save & Apply**
- Go to **Network → Routing → Advanced Static Routes → Routing Rules For IPV4**

- Create 2 new rules with these parameters:

First Rule: **Priority:** 1, **Incoming interface:** lan, **Lookup table:** 100

Second Rule: **Priority:** 1, **Incoming interface:** lan2, **Lookup table:** 200

Separating Traffic Via Ethernet Ports

- Go to **Network → VLAN**
- Set **Untagged** on any LAN port you want next to VLAN ID: 3 (remove **Untagged** on a port next to VLAN ID: 1 accordingly)

Separating Traffic With WLAN Interface

- Go to **Network → Wireless**
- Select your desired access point and click **Edit**

- Click on **Network** and select a LAN interface which is used by VLAN (**lan2** in this example)

- Click **Save & Apply**