

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.

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- 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**