# Splitting Network Traffic Via Multiple Interfaces

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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

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

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- 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)

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### **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

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- 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

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- 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

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- 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

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- 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

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• Create 2 new rules with these parameters:

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

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

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## **Separating Traffic Via Ethernet Ports**

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

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## **Separating Traffic With WLAN Interface**

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

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

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• Click Save & Apply