



# Load Balancing

6310-DX, 6330-MX, and 6350-SR

# Load Balancing

Difficulty level: *Easy*

## Goal

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To configure additional WAN interfaces on the 63xx-series router in tandem with its primary WAN uplink such that all interfaces share the network load for Internet connectivity.

**!** **NOTE:** The cellular plug-in module is available as a WAN interface by default, though additional interfaces can be configured. For more information please refer to the configuration example for [Dual WAN Ethernet Ports](#).

## Setup

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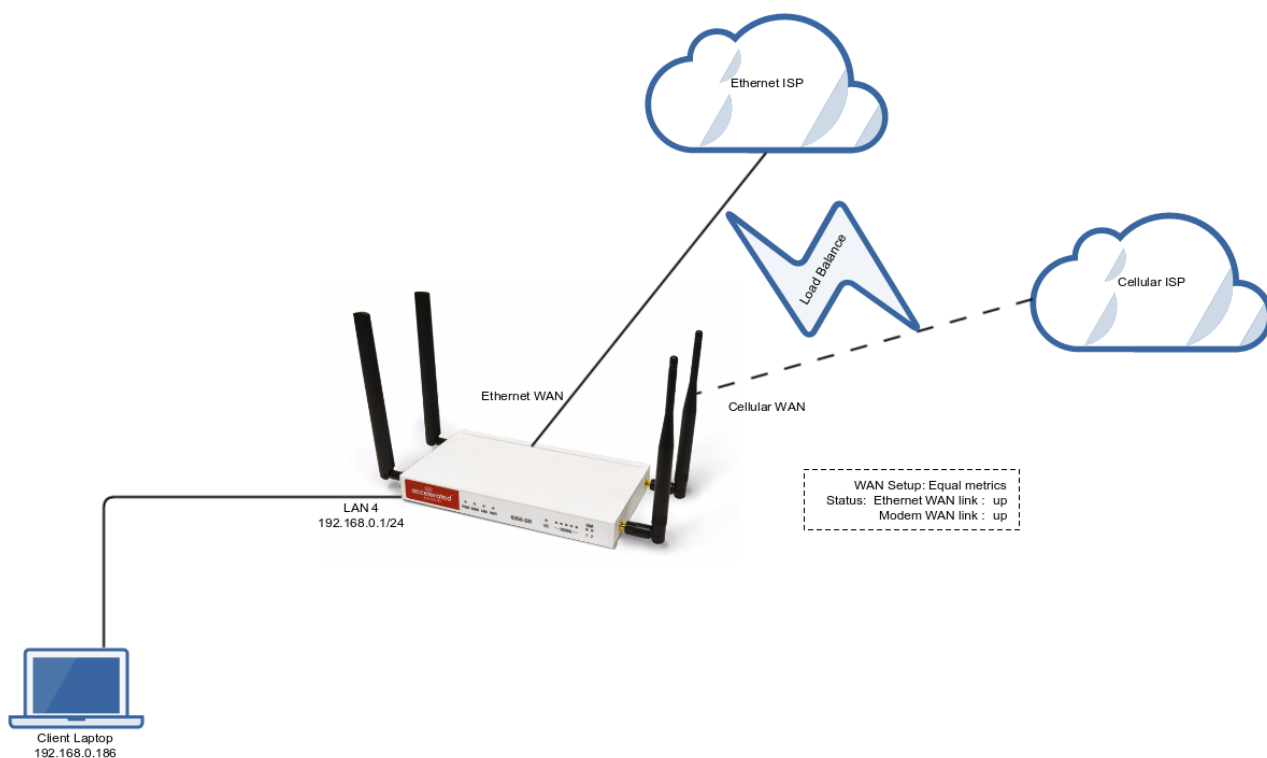
This article assumes the LAN ports are operating under default settings, which provide DHCP connectivity to devices connected to the 63xx-series router's LAN ports. For more details on the default settings of the 6350-SR, see the [Default Settings](#) section of the User Manual.

For this setup, you will need the 63xx-series router with both a primary WAN Ethernet connection and a secondary means of WAN access.

## Sample

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The sample configuration below shows a 6350-SR with two Internet connections: a cellular-based WAN connection through the 6350-SR's modem, and a broadband-based WAN connection through the 6350-SR's WAN Ethernet port. Both WAN interfaces will be utilized equally, sharing 50% of the WAN network traffic.



## Sample Configuration

Open the configuration profile for the 63xx-series router and make the following changes.

1. In the **Modem** -> **Metric** entry, ensure the value is set to the same number set in the **Network** -> **Interfaces** -> **WAN** -> **IPv4** -> **Metric** setting.
2. In the **Modem** -> **Weight** entry, ensure the value is set to the same number set in the **Network** -> **Interfaces** -> **WAN** -> **IPv4** -> **Weight** setting. This will set a 1:1 ratio between the two WAN interfaces, so each interface is handling 50% of the WAN network traffic.

**NOTE:** The **weight** setting can be adjusted if you prefer to weigh the WAN traffic differently. For example, if you instead want 75% of the WAN traffic to go through the Ethernet WAN interface, and only 25% to go through the cellular modem's WAN interface (i.e. a 1:4 ratio), you would set the weight of the **Modem** interface to **3** and the weight of the **WAN** -> **IPv4** interface to **12** (or any 1:4 ratio of numbers, such as **1** and **4**, or **2** and **8**).

Control management

Modem

Modem

Modem type: Modem

Zone: External

APN:

APN Lock: Off

Carrier switching: Off

APN:

Access technology: All technologies

Authentication method: Automatic

Username:

Password:

Roaming: Non and auxiliary

APN:

APN: 1000

Priority: 1

Weight: 10

Management Priority: 1

Connection marking

Network

Interface

Interface

Interface type: Ethernet

Zone: External

Zone: External WAN

IPsec

IPsec

Interface type: Local address

Priority: 1

Weight: 10

Management Priority: 1

Connection marking

IPsec

IPsec address selection

IPsec

Virtual LAN

Bridge

Port

Port

Wireless LAN

Dynamic DNS

VMST

Routing

Routing

Routing

Routing

Routing