



Failover

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

Failover

Difficulty level: *Beginner*

Goal

To use the 63xx-series router's cellular modem as a backup WAN connection for the primary WAN Ethernet port. The 63xx-series router will use the WAN Ethernet port as its main Internet connection, and will fail over to the cellular modem if the primary connection goes down.

Setup

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 63xx-series router, see the *Default Settings* section of the [SR User's Manual](#).

For this setup, you will need the 63xx-series router with both a primary WAN Ethernet connection, and a cellular modem connection.

Sample

The sample configuration below shows a 63xx-series router with two internet connections. The WAN Ethernet interface will be used as the primary Internet connection. The 63xx-series router is setup to test the WAN Ethernet connection twice every minute. If three sequential tests fail, then the 63xx-series router will restart the WAN Ethernet connection, and failover to the cellular modem's Internet connection until the WAN Ethernet connection is re-established.

Summed up, if a 63xx-series router's primary WAN connection fails, with the below configuration the 63xx-series router will failover to the cellular modem in under 2 minutes.



Sample Configuration

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

In the **Modem** -> **Metric entry**, ensure the value is set to a number higher than the value in **Network** -> **Interfaces** -> **WAN** -> **IPv4** -> **Metric**. The interface with the lower metric takes higher precedence. By default, the cellular modem metric should be 3 and the WAN Ethernet's metric should be 1, making WAN Ethernet the primary and the cellular modem the backup Internet connection.

Modem	
Enable	<input checked="" type="checkbox"/>
Interface type	Modem
Zone	External
APN	
APN Lock	<input type="checkbox"/>
Carrier Switching	<input checked="" type="checkbox"/>
PIN	
Access technology	All technologies
Authentication method	Automatic
Username	
Password	
	<input type="checkbox"/> Show
Antennas	Main and auxiliary
MTU	1500
Metric	3
Weight	10
Management Priority	0
Passthrough	
Custom Gateway	
Active SIM slot	Automatic
Automatic SIM selection connection attempts	5
Connectivity monitoring	

Next, open the **Network -> Interfaces -> WAN -> IPv4 -> Active Recovery** section and make the following changes.

- **Enabled:** checked
- **Restart interface:** checked
- **Interval:** 30s
- **Attempts:** 3
- **Test targets:** a ping test to **128.136.167.120** and a HTTP test to **firmware.accns.com**

Note: 2 different tests are recommended to prevent false positives

NOTE: Best practices dictate that redundant tests (with divergent failure conditions) will be the best way to ensure proper connectivity monitoring/active recovery. With only a single test type, false positives could be reported.

General management -

Modem -

Network -

Interfaces -

Loopback -

Default IP -

Associated vlan endpoint -

Modem -

LAN -

WAN -

Enable -

Interface type - Ethernet

Zone - External

Device - Ethernet: WAN

IPV4 -

Enable -

Interface type - DHCP address

Metric - 1

Weight - 10

Management Priority - 0

Connectivity monitoring -

Enable -

Monitor interface -

Monitor device -

Interval - 30s

Success condition - One test target pass

Attempts - 3

Response timeout - 15s

Test targets -

1. Test target -

Test type - Ping test

Ping host - 128.136.167.120

Ping payload size - 20

2. Test target -

Test type - HTTP test

Web servers - https://firmware.acron.com

Add test target

IPV6 -

MAC address whitelist -

Add whitelist

Virtual LAN -

Bridges -

Routes -

IPV6 -

Wireless LAN -

Dynamic DNS -

SNMP -

Routing services -

IPsec -

Firewall -