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Load Balancing Options – UTM25 & SRX5308

There are 2 options for load balancing on the UTM25 & SRX5308:

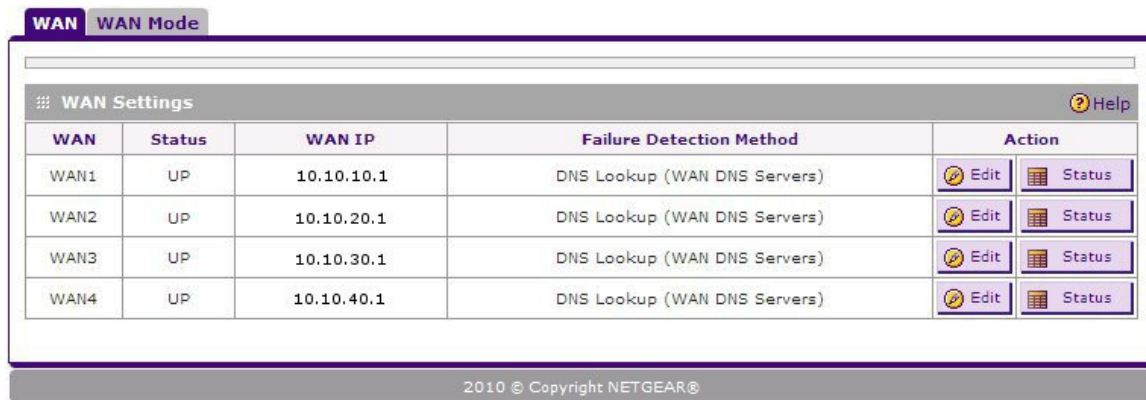- Round Robin
- Weighted Load Balancing

Round Robin

With round-robin load balancing, new traffic connections are sent over a WAN link in a serial method irrespective of bandwidth or link speed. For example, if the WAN1, WAN2, and WAN3 interfaces are active in round-robin load balancing mode, an HTTP request could first be sent over the WAN1 interface, then a new FTP session could start on the WAN2 interface, and then any new connection to the Internet could be made on the WAN3 interface. This load-balancing method ensures that a single WAN interface does not carry a disproportionate distribution of sessions.

Weighted Load Balancing

With weighted load balancing, balance weights are calculated based on WAN link speed and available WAN bandwidth. This is the default setting and most efficient load-balancing algorithm.

For Weighted Load Balancing to be effective, it is necessary to configure the WAN Connection Speeds. To do this, go to Network Configuration -> WAN Settings -> WAN. The screen below will be shown:

WAN | **WAN Mode**

⠿ WAN Settings   ⓘ Help

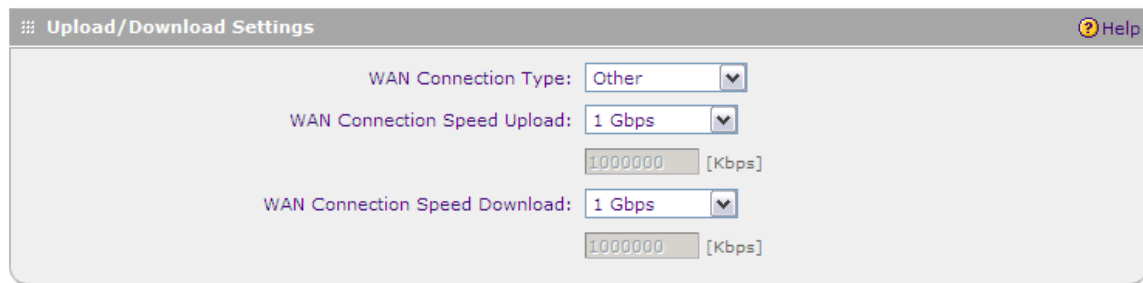| WAN	Status	WAN IP	Failure Detection Method	Action	
WAN1	UP	10.10.10.1	DNS Lookup (WAN DNS Servers)	ⓘ Edit	⊞ Status
WAN2	UP	10.10.20.1	DNS Lookup (WAN DNS Servers)	ⓘ Edit	⊞ Status
WAN3	UP	10.10.30.1	DNS Lookup (WAN DNS Servers)	ⓘ Edit	⊞ Status
WAN4	UP	10.10.40.1	DNS Lookup (WAN DNS Servers)	ⓘ Edit	⊞ Status

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Next, click the **Edit** button corresponding to the WAN port you want to configure (you will need to do this for each WAN port). The screen below will be shown. Next, click the **Advanced** option (marked in red below).

You will be brought to the Advanced Options page. At the bottom of this page, you can configure WAN Connection Speeds (upload and download):

Note that the default for each is 1 Gbps. You will need to configure the Upload and Download speed with the relevant setting for the WAN link. To do this, change the drop down box to **custom** and enter the setting in Kbps.