

Case Study:

a) ADSL 24/1 + LTE 100/50

Routing>Load Balance

Please select Method: WRR. It's because speed between ADSL and LTE are 1:4. Hence, we need to use WRR to 50:200.

▼ Load Balance

Parameters

Load Balance Enable

Method

Adsl: 90% of speed on upstream/downstream

WAN Settings						
WAN Interface	Enable	Upstream	Downstream	Weight	L3 Health Check	Status
pppoe_0_0_33/ppp0.1	<input checked="" type="checkbox"/>	900 [1-1000000]kbps	21600 [1-1000000]kbps	50 [1-256]	<input type="checkbox"/>	(IP) Down
<input type="button" value="Add"/> <input type="button" value="Edit/Delete"/>						

LTE: 90% of speed on upstream/downstream

WAN Settings						
WAN Interface	Enable	Upstream	Downstream	Weight	L3 Health Check	Status
3G0/USB3G0	<input checked="" type="checkbox"/>	45000 [1-1000000]kbps	90000 [1-1000000]kbps	200 [1-256]	<input type="checkbox"/>	(IP) Down

b) Vdsl2 100/100 + LTE 100/50

It's okay to use SDB. There is no diversity between VDSL and LTE speed.

Parameters

Load Balance Enable

Method

VDSL: 90% of speed on upstream/downstream.

WAN Settings						
WAN Interface	Enable	Upstream	Downstream	Weight	L3 Health Check	Status
ipoe_0_1_0/ptm0.1	<input checked="" type="checkbox"/>	90000 [1-1000000]kbps	90000 [1-1000000]kbps	1 [1-256]	<input type="checkbox"/>	(IP) Down

LTE: 90% of speed on upstream/downstream

WAN Settings						
WAN Interface	Enable	Upstream	Downstream	Weight	L3 Health Check	Status
3G0/USB3G0	<input checked="" type="checkbox"/>	45000 [1-1000000]kbps	90000 [1-1000000]kbps	1 [1-256]	<input type="checkbox"/>	(IP) Down

c) WAN ETH 1000/1000 + LTE 100/50

Please select Method: WRR. It's because speed between Eth and LTE are 10:1. Hence, we need to use WRR to 200:20.

Load Balance

Parameters

Load Balance Enable

Method

WAN ETH: Please make sure your Ethernet is Downstream/upstream=1000/1000.

WAN Interface	Enable	Upstream	Downstream	Weight	L3 Health Check	Status
ipoe_eth4/eth4.1	<input checked="" type="checkbox"/>	900000 [1-1000000]kbps	900000 [1-1000000]kbps	200 [1-256]	<input type="checkbox"/> (IP)	Down

LTE 100/50: 90% of speed on upstream/downstream

WAN Interface	Enable	Upstream	Downstream	Weight	L3 Health Check	Status
3G0/USB3G0	<input checked="" type="checkbox"/>	45000 [1-1000000]kbps	90000 [1-1000000]kbps	20 [1-256]	<input type="checkbox"/> (IP)	Down

d) VDSL2 50/50 + WAN eth 1000 + LTE 100/50

Please select Method: WRR. It's because speed between VDSL,Eth and LTE are 1:20:2. Hence, we need to use WRR to 10:200:20.

VDSL:

WAN Interface	Enable	Upstream	Downstream	Weight	L3 Health Check	Status
ipoe_0_1_0/ptm0.1	<input checked="" type="checkbox"/>	45000 [1-1000000]kbps	45000 [1-1000000]kbps	10 [1-256]	<input type="checkbox"/> (IP)	Down

Ethernet:

WAN Interface	Enable	Upstream	Downstream	Weight	L3 Health Check	Status
ipoe_eth4/eth4.1	<input checked="" type="checkbox"/>	900000 [1-1000000]kbps	900000 [1-1000000]kbps	200 [1-256]	<input type="checkbox"/> (IP)	Down

LTE:

WAN Interface	Enable	Upstream	Downstream	Weight	L3 Health Check	Status
3G0/USB3G0	<input checked="" type="checkbox"/>	45000 [1-1000000]kbps	90000 [1-1000000]kbps	20 [1-256]	<input type="checkbox"/> (IP)	Down

Note: If there is a huge diversity between interfaces, please use WRR. If no, please use SDB. It depends on your test environment.