

Application Guide

H8951-Link Backup-WLAN/ModemV1.0.doc



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Revision History

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Doc Version	Product	Release Data	Details
V1.0	Hongdian Router	2017.08.21	First Release

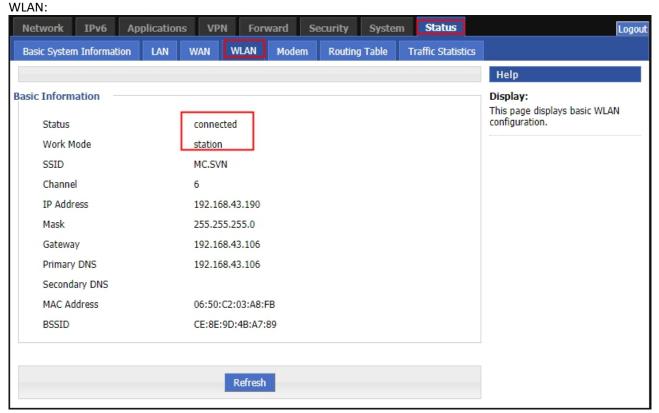
1 Overview

Hongdian 3G/4G Router provides WLAN/Modem link backup for the field application which may need the WLAN connection as main link, and the 3G/4G wireless connection as backup link, so as to make sure the stable connection.

Here we introduce the settings that WLAN link as main, modem link as backup. The converse of mainand back link is also OK.

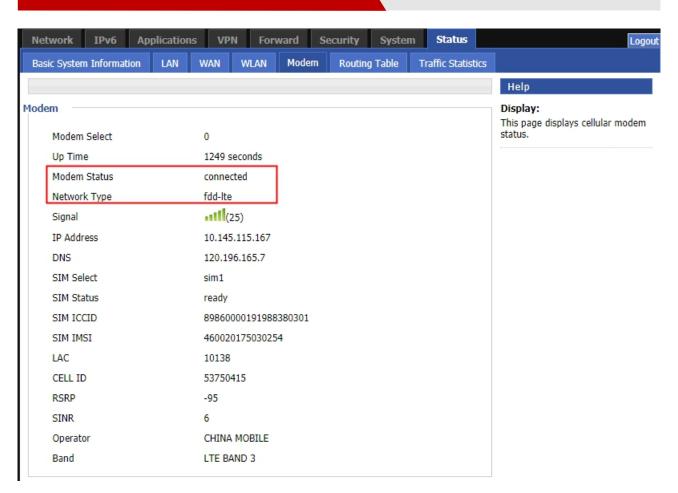
2 Description

1. We finish the settings about wlan and modem, make wlan and modem both connecting, wlan setting as below show , modem port is according to your custom.

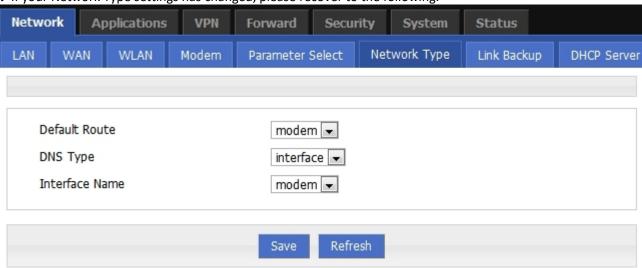


Modem:

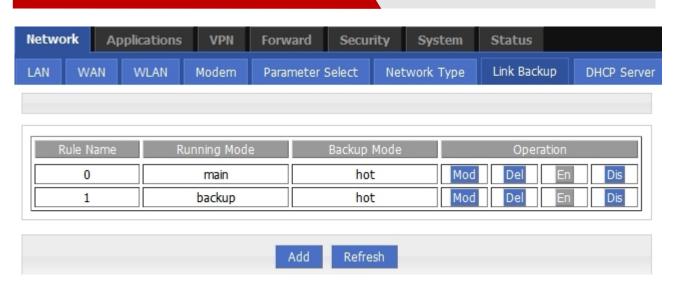
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2. If your Network Type settings has changed, please recover to the following.

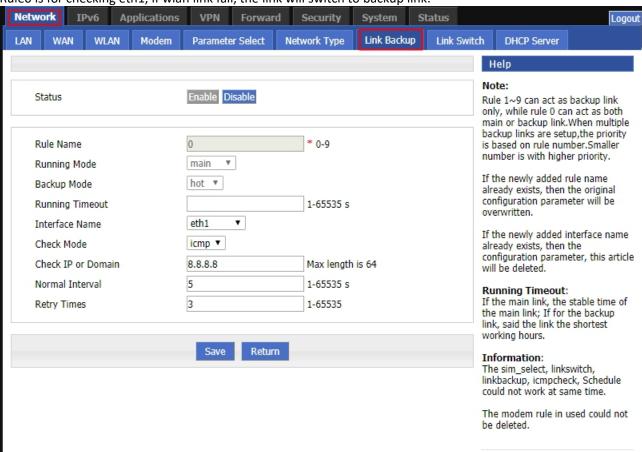


3. We use Link Backup feature, as following:



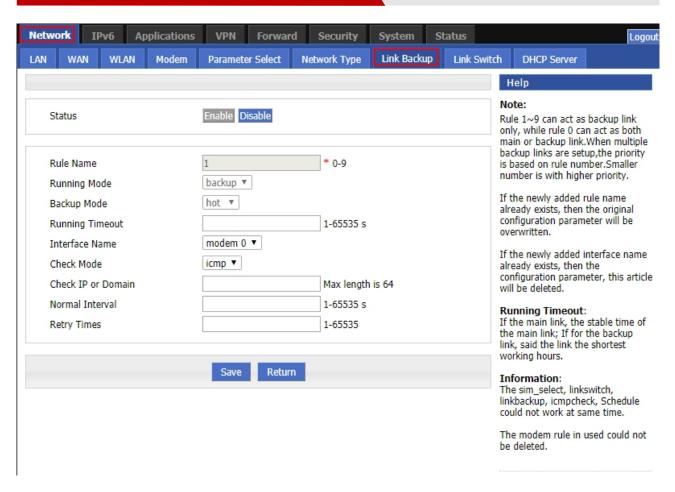
main link.

RuleO is for checking eth1, if wlan link fail, the link will switch to backup link.

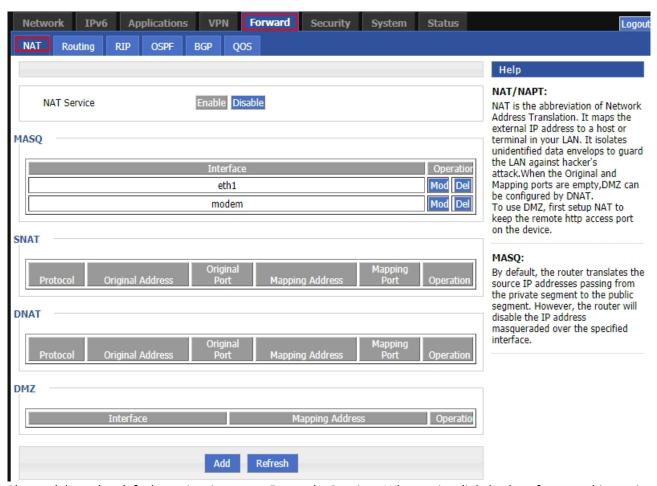


Note: If don't want backup link switch to main link immediately when main link is back, can setup the Running Timeout setting. The time means unless the main link works for that specific time, link should not switch back to

Rule1 is for checking modem, When Main link is back, the link will switch to main link.



4. We add MASQ about eth1 and modem.

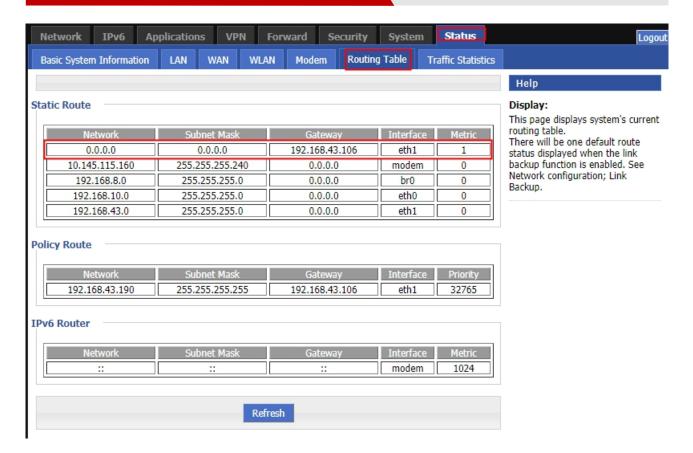


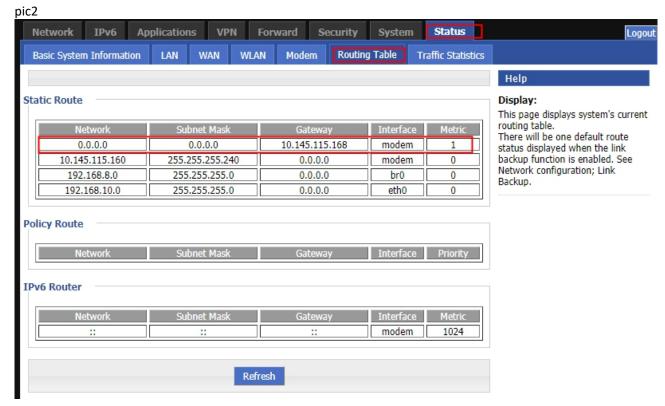
Please delete the default setting in page>>Forward>>Routing. When using link backup feature, this setting should be empty.



After that, the link backup setting is done, you will see the default route is eth1, refer to pic1, if wan link fail, the link will switch to modem link, you will see the default route is modem, refer to pic2

pic1





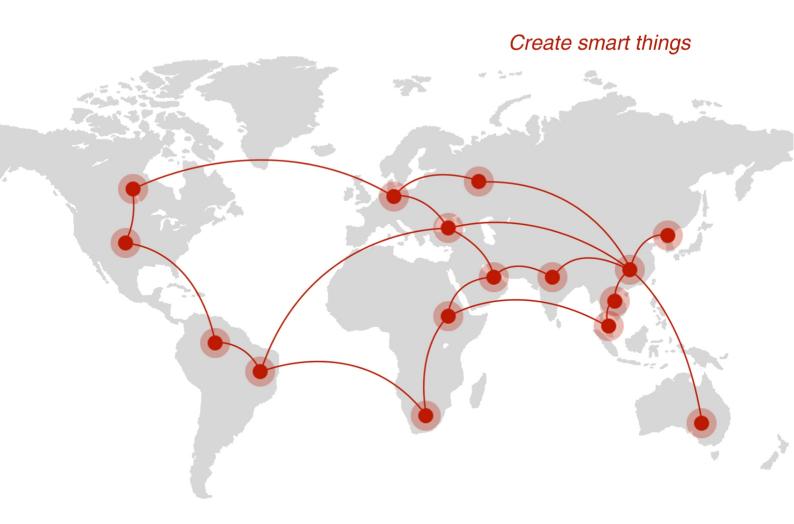
PS: about the linkbackup total switch time instruction:

14-Jul 11:	<30>Jul 14 11:38:12 linkbackup[6632]: #### rule[0], main linl	:[eth0], icmp check begin ####{linkbackup.c->1233}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:12 linkbackup[6632]: **** ICMP send icmp pa	cket successful ****{icmp.c->219}	192.168.8.1
14-Jul 11:	<31>Jul 14 11:38:15 time[250]: ntpclient -h ntp.sjtu.edu.cn -s re	turn 14{time.c->111}	192.168.8.1
14-Jul 11:	<27>Jul 14 11:38:15 time[250]: NTP failed!{time.c->302}		192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:15 linkbackup[6632]: recv_icmp_pack:select ti	me out{icmp.c->79}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:15 linkbackup[6632]: **** ICMP Recv icmp pa	cket timeout ****{icmp.c->299}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:17 linkbackup[6632]: **** ICMP send icmp pa	cket successful ****{icmp.c->219}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:20 time[250]: last ntp failed, do ntp{time.c->1	88}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:20 linkbackup[6632]: recv_icmp_pack:select ti	me out{icmp.c->98}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:20 linkbackup[6632]: **** ICMP Recv icmp pa	cket timeout ****{icmp.c->299}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:22 linkbackup[6632]: **** ICMP send icmp pa	cket successful ****{icmp.c->219}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:22 cloud_agent[6409]: cloud_agent version:14	0711-3.0.3[11-3.0.3]{wmmp_main.c->216}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:22 cloud_agent[6409]: initialization failed, res	et cloud_agent, intialize cloud_agent again{wmmp_main.c->	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:24 cloud_agent[6691]: cloud_agent version:14	0711-3.0.3[11-3.0.3]{wmmp_main.c->216}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:25 linkbackup[6632]: recv_icmp_pack:select ti	me out{icmp.c->98}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:25 linkbackup[6632]: **** ICMP Recv icmp pa	cket timeout ****{icmp.c->299}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:27 linkbackup[6632]: ##### rule[0], main linl	c[eth0], icmp check end #####{linkbackup.c->1235}	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:27 linkbackup[6632]: now checking rule[0], cl	eck main link[eth0] ret[-2](0:success, <0:failed){linkbackup	192.168.8.1
14-Jul 11:	<30>Jul 14 11:38:28 linkbackup[6632]: switch from [rule:0] mai	n [link:eth0] to [rule:1] backup [link:modem]{linkbackup.c->	192.168.8.1

From the log, the linkbackup switch from start to end, total cost 15s(retry time is 3), so every linkbackup every check time cost 5s, we can draw the linkbackup total switch time range is

Min: 5s*retry time<= linkbackup total switch time <= Max: normal interval+5s*retry time





Contact us

F14 - F16, Tower A, Building 14, No.12, Ganli 6th Road, Longgang District, Shenzhen 518112, China.

+86-755-88864288-5

+86-755-83404677

f hongdianchina

www.hongdian.com

▼ sales@hongdian.com

Hongdian_China