

Configure Smart Link Backup (Failover) on RV042, RV042G and RV082 VPN Routers

Objective

Smart Link Backup is a feature that allows the user to set up a second WAN in case the first one fails. This feature is used to assure that the communication between the WAN and the device is always continuous.

The objective of this document is to show you how to configure Smart Link Backup on RV042, RV042G and RV082 VPN Routers.

Applicable Devices

- RV042
- RV042G
- RV082

Software Version

- v4.2.2.08

Dual WAN Setup

Step 1. Log in to the Router Configuration Utility and choose **System Management > Dual WAN**. The *Dual WAN* page opens:

Dual WAN

Load Balance

Smart Link Backup : Primary WAN **WAN1** (Specify which WAN is Primary , the other one will be backup)

Load Balance (Auto Mode)

Interface Setting

Interface	Mode	Configuration
WAN1	Smart Link Backup	
WAN2	Smart Link Backup	

Step 2. Click the **Smart Link Backup** radio button to enable the smart link backup mode to ensure continuous connectivity. Then choose the WAN that you would like to configure as your primary WAN from the *Primary WAN* drop-down list. If the primary WAN connection is unavailable, the backup WAN connection is used.

Step 3. Click **Save** to save changes or **Cancel** to undo changes.

Edit the WAN Interfaces



Dual WAN

Load Balance

Smart Link Backup : Primary WAN **WAN1** (Specify which WAN is Primary , the other one will be backup)

Load Balance (Auto Mode)

Interface Setting

Interface	Mode	Configuration
WAN1	Auto	
WAN2	Auto	

Step 1. Click the **Edit** icon for the desired WAN interface in the *Interface Setting* table to edit the settings of the the WAN used for dual WAN. The *Dual WAN* page displays new information.

Network Service Detection

Enable Network Service Detection

Retry count :

Retry timeout : second

When Fail :

Default Gateway

ISP Host

Remote Host

DNS Lookup Host

Step 2. Scroll down to the *Network Service Detection* area.

Step 3. Check the **Enable Network Service Detection** check box. Network service detection allows the device to recognize when a WAN connection fails.

Step 4. In the *Retry Count* field, enter the number of times that the device has to ping the connection to determine the status of the connection.

Step 5. In the *Retry Time Out* field, enter the time (in seconds) that the device waits between pings.

Network Service Detection

Enable Network Service Detection

Retry count :

Retry timeout : second

When Fail : Keep System Log and Remove the Connection ▼

Default Gateway

ISP Host

Remote Host

DNS Lookup Host

Step 6. Choose **Keep System Log and Remove this Connection** from the *When Fail* drop-down list. With this action, you assure that the secondary WAN is used when the first one fails.

Default Gateway

ISP Host

Remote Host

DNS Lookup Host

Step 7. Check the check box for each of the devices that you want to use to test the connectivity of the Dual WAN interface.

- **Default Gateway** — The default gateway is used to test the connection that the device has with the network. Network Service Detection tests the settings by pinging the Default Gateway.
- **ISP Host** — The ISP host is used to check the connection by pinging a specific IP Address for the ISP Host. If you check this option, enter the IP address for the specific host in the *ISP Host* field.
- **Remote Host** — The remote host IP address is used to test the connectivity to ping the IP address of a remote host. If you check this option, enter the IP address of the remote host.
- **DNS Lookup Host** — DNS lookup host is used to test the connectivity by pinging the IP address of a host for a DNS lookup server. If you check this option, enter the IP address of the DNS lookup host in the *DNS Lookup Host* field.

Step 8. Click **Save** to save the configuration.