InRouter 600

APPLICATION GUIDE FOR INTERFACE LINK BACKUP

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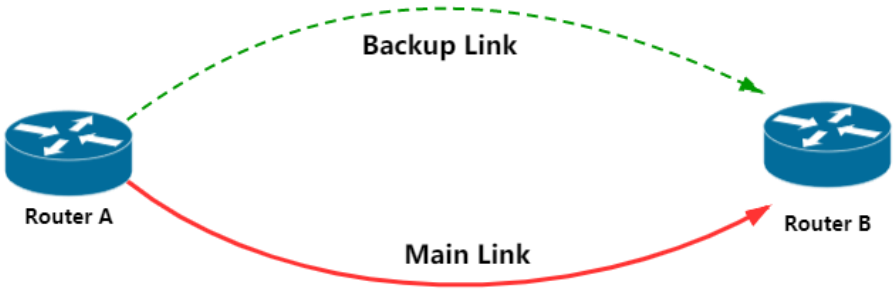
InHand Networks
Global Leader in Industrial IoT

Contents

1. Abstract

This application guide shows how to configure IR600 doing the link backup.



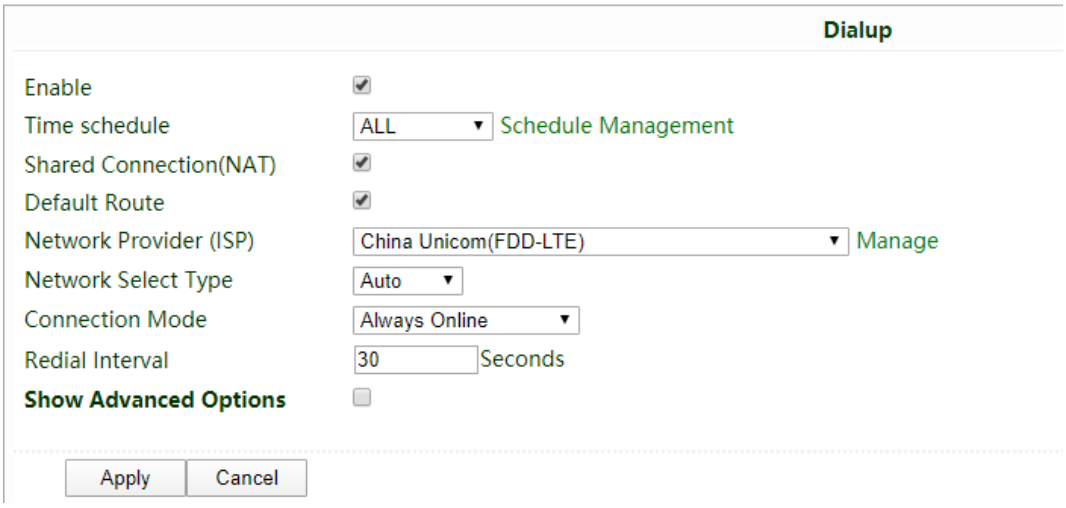
In a network environment with multiple switches or routers, the network is not always steady. Therefore, a backup link needs to be considered. When the main link is down sometime, the router A is required to switch to the backup link automatically. In this way, the stability of the network could be improved.

2. Configuration

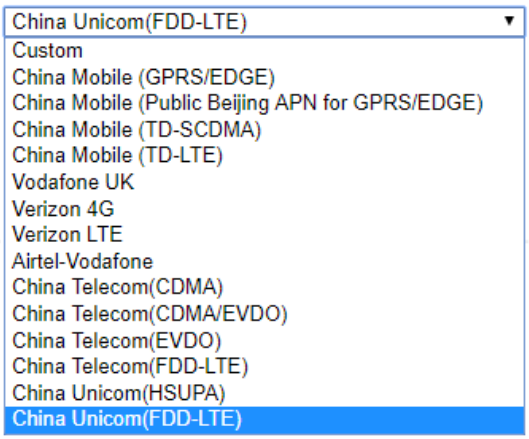
For IR600, there are two choices for the link backup: WAN and Dialup. You can choose either WAN or Dialup as your main link and correspondingly, the other one is chosen as the backup link.

Before starting the configuration, please confirm that the SIM card is active and the phone number is known.

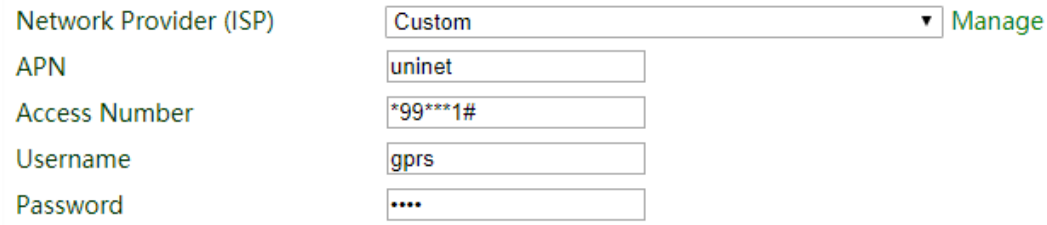
2.1 Click **Netwoks** → **Dialup,** enable **Dialup**



2.2 Select your **Network Provider (ISP)**



If there is no suitable choice for you, please select **Custom.**



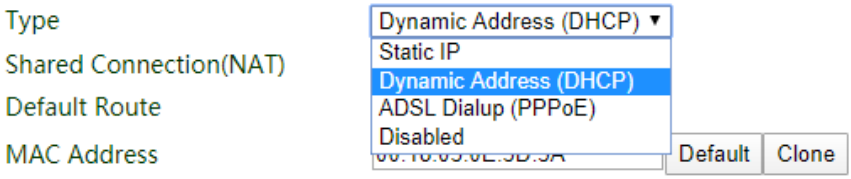
Then, fill in the corresponding information of your SIM card.

2.3 Select a suitable **Connection Mode** as **Always Online**

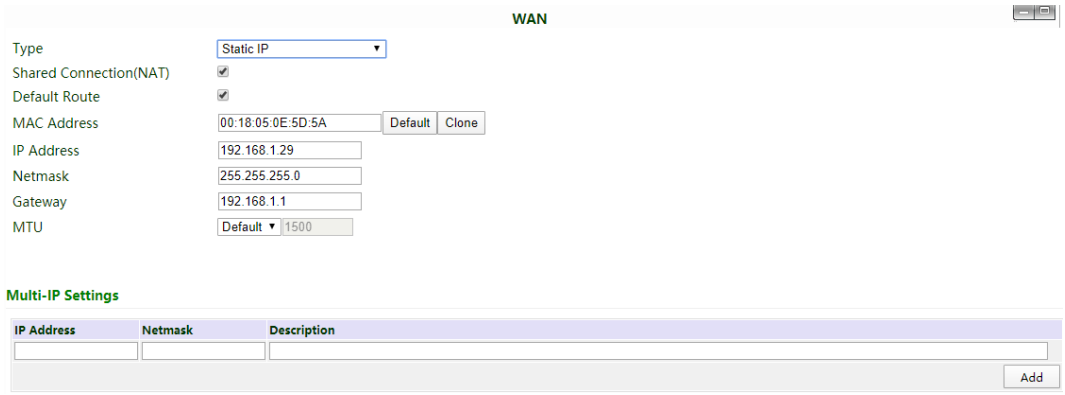
2.4 Click **Apply**

2.5 Click **Networks** → **WAN**, select the WAN **Type**

There are four selections for **Type**: **Static IP**, **Dynamic Address (DHCP)**, **ADSL Dialup (PPPoE)** and **Disabled** (default value). Here Dynamic Address is used for guiding explanation.



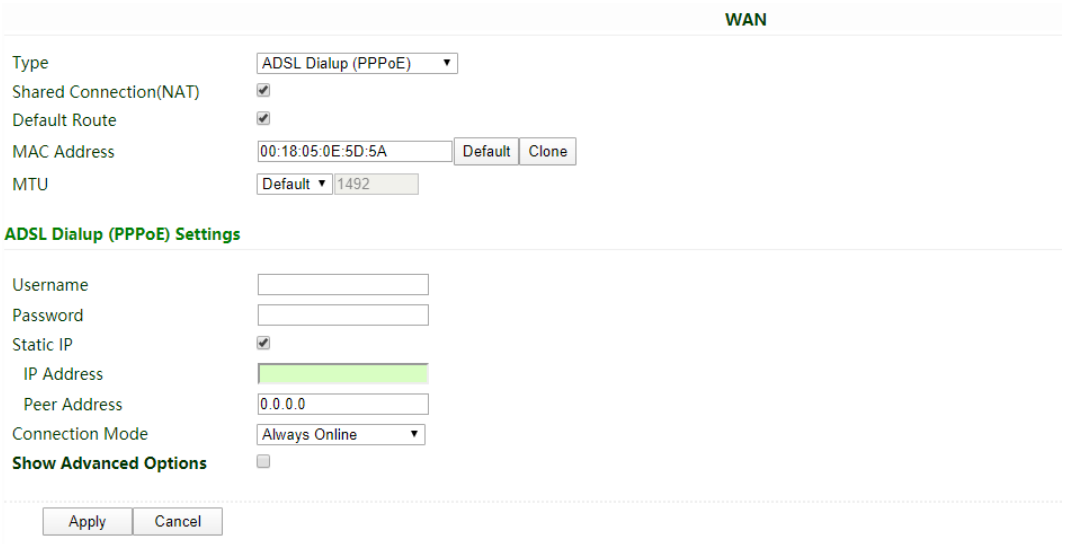
2.5.1 **Static IP** is used for special servers or computers with dedicated Internet access.



Check your static IP information. Usually they are shown automatically, if not, please fill in the information manually.

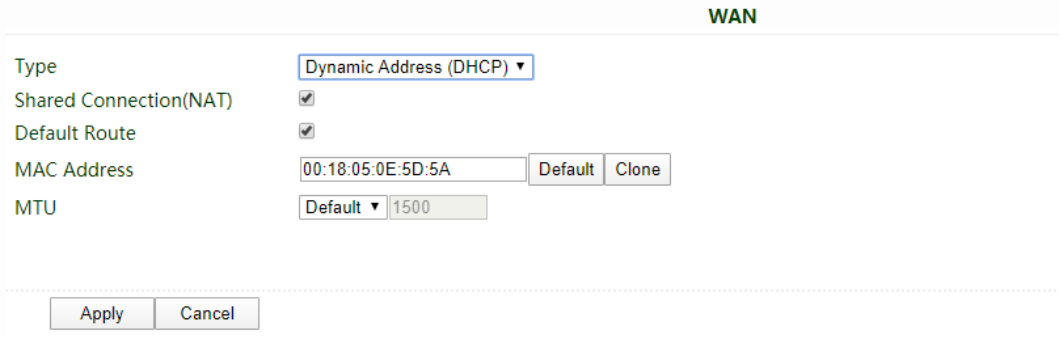
You can also set max. 8 multi-IP addresses. Fill the IP information in the blocks and click **Add** then.

2.5.2 **ADSL Dialup** is used for dialup Internet accessing.



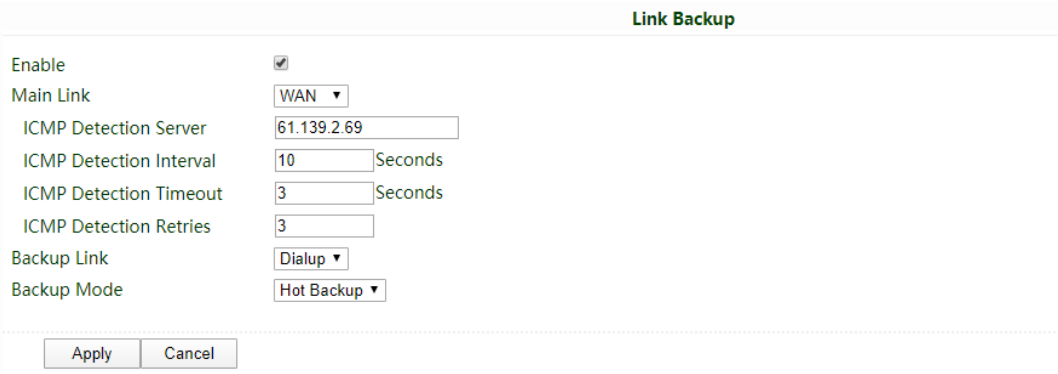
Fill in your Dialup **Username** and **Password**. If you need Static IP as well, enable **Static IP**. Then fill in your **IP Address** and **Peer Address**.

2.5.3 If there is no specific requirement, please select **Dynamic Address**.



2.6 Never forget to click **Apply!**

2.7 Click **Netwoks** → **Link Backup**, enable **Link Backup**



2.8 Select **Main Link** and **Backup Link**

Normally, WAN is used as the main link and the dialup is used as backup link. However, they can be exchanged as well.

2.9 Add **ICMP Detection Server**

Here we need a public IP address for detection. The detection address needs to keep static, so that the router can confirm the main link is down or not.

For example, if we set the detection address as one dynamic address of WAN. After the main link recovering, it might get a new IP address. However, the detection address does not change. Therefore, the router will not detect the main link and keep using the backup link.

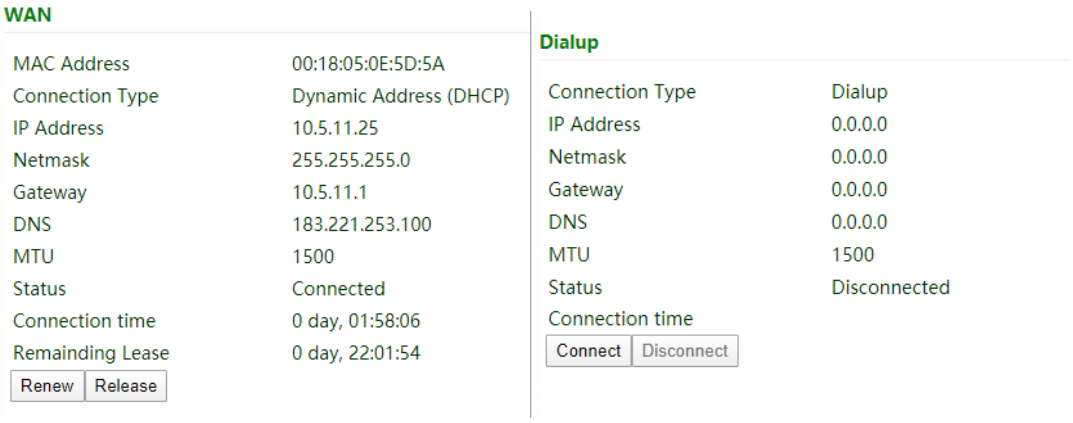
2.10 Click **Apply**

3. Test and Verify

3.1 Click Status → Netwok Connections

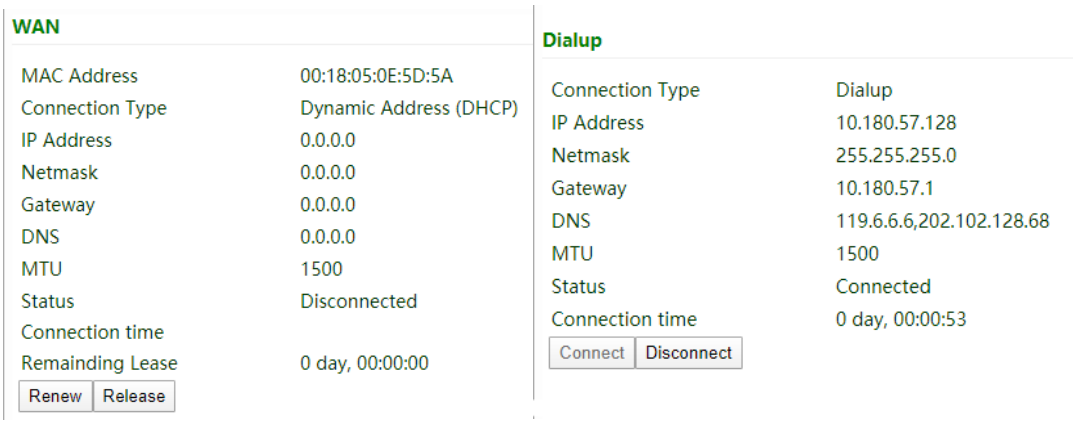
At the beginning, both WAN and Dialup are connected. The reason is that IR600 uses hot backup.

Click **Disconnect** under the Dialup part.



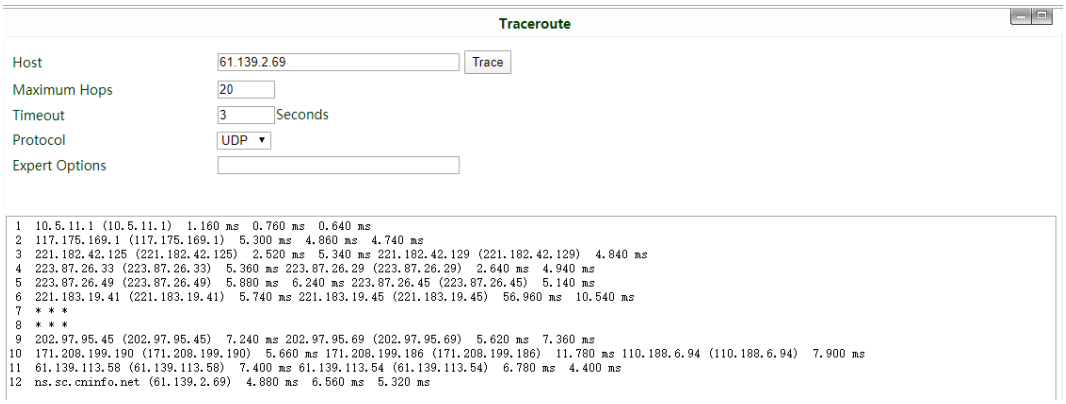
3.2 Click **Release** under the WAN part

You can also remove the WAN wire. After waiting a few seconds, the Dialup shows connected.

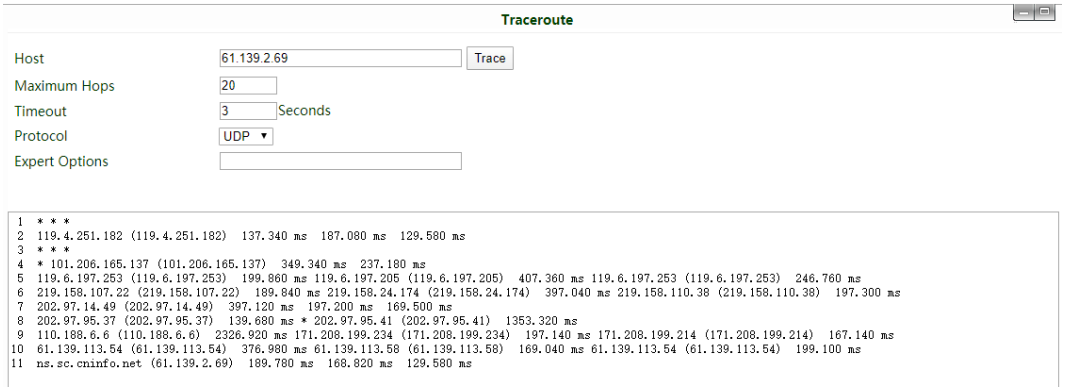


3.3 Click **Tools** → **Traceroute**

Traceroute can show the way the packets access to the destination address.



When the WAN interface is connected, it shows the packets going through the Gate 1 (10.5.11.1) and Gate 2 (117.175.169.1).



When the main link is disconnected, Gate 2 changes to 101.206.164.9.

Both the two traceroute show the packets can access the detection address (61.139.2.69).

Contact Us

Add: 3900 Jermantown Rd., Suite 150, Fairfax, VA 22030 USA
E-mail: support@inhandneworks.com
T: +1 (703) 348-2988
URL: www.inhandnetworks.com

InHand Website