

# G806 GRE Client manual

File Version: V1.0.0

## Overview

This manual introduces the G806 GRE Client function.

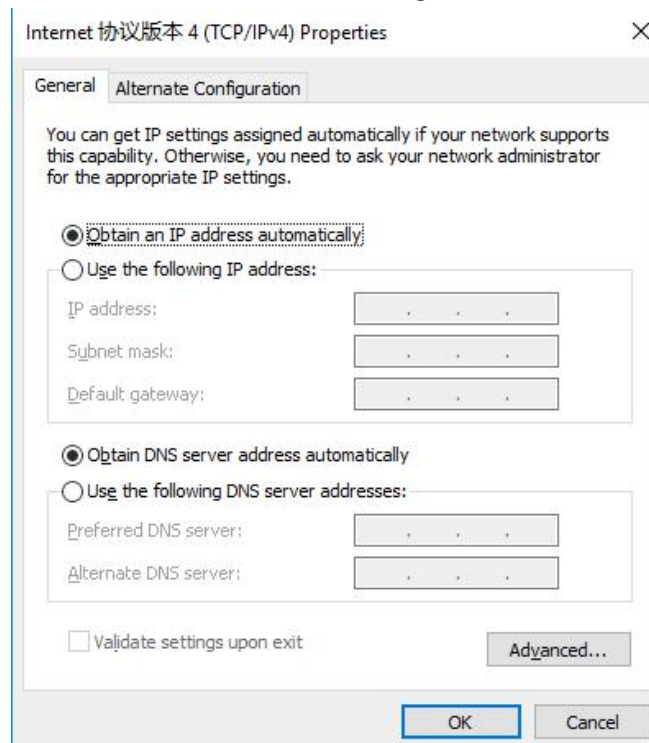
## 1. Introduction

GRE(Generic Routing Encapsulation) protocol encapsulates data packet of some network layer protocol(Such as IP and IPX) to make these data packets be able to transmit in another network layer protocol(Such as IP). GRE adopts Tunnel technology and is the third layer tunnel protocol of VPN.

## 2. Configuration

### 2.1. Enter G806 Web Server

Connect PC to G806 LAN interface or WLAN interface and configure PC into DHCP mode as follow:



Then enter G806 Web Server by entering G806 LAN interface IP address (Default is 192.168.1.1) and login with username and password(Default both are root). User can switch between English/Chinese from top right corner.

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**Authorization Required**


Please enter your username and password.

Username:

Password:

## 2.2. Add GRE interface

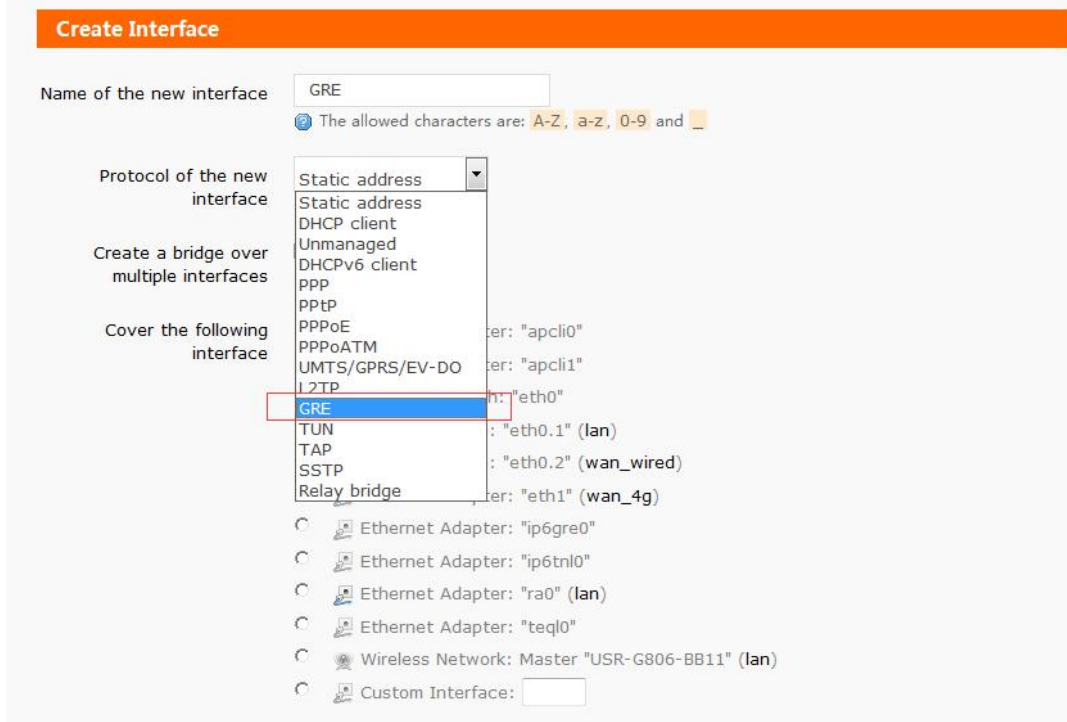
After entering Web Server, add GRE interface as follow:



The screenshot shows the 'Network' configuration page for the USR-G806 device. On the left is a navigation menu with 'Interfaces' highlighted. The main area displays a table of network interfaces:

Network	Status	Actions
<b>PPTP</b> pptp-PPTP	RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	Connect Stop Edit Delete
<b>LAN</b> br-lan	Uptime: 2h 46m 19s MAC-Address: D8:80:4C:D1:21:C1 RX: 3.85 MB (33368 Pkts.) TX: 17.84 MB (33311 Pkts.) IPv4: 192.168.1.1/24 IPv6: FDCA:F406:EBCF:0:0:0:1/60	Connect Stop Edit Delete
<b>WAN_4G</b> eth1	Uptime: 0h 0m 0s MAC-Address: 00:A0:C6:00:00:00 RX: 0.00 B (0 Pkts.) TX: 452.00 B (2 Pkts.)	Connect Stop Edit Delete
<b>WAN_WIRED</b> eth0.2	Uptime: 1h 5m 43s MAC-Address: D8:80:4C:D1:21:C1 RX: 23.92 MB (83884 Pkts.) TX: 3.00 MB (22831 Pkts.) IPv4: 192.168.5.31/24	Connect Stop Edit Delete

At the bottom of the interface list, there is a button labeled 'Add new interface...'.



**Create Interface**

Name of the new interface:   
The allowed characters are: A-Z, a-z, 0-9 and \_

Protocol of the new interface:  (dropdown menu open)

Create a bridge over multiple interfaces:

Cover the following interface:

Options in dropdown menu:  
 Static address  
 DHCP client  
 Unmanaged  
 DHCPv6 client  
 PPP  
 PPPoE (server: "apcli0")  
 PPPoATM  
 UMTS/GPRS/EV-DO (server: "apcli1")  
 L2TP (server: "eth0")  
**GRE**  
 TUN (server: "eth0.1" (lan))  
 TAP (server: "eth0.2" (wan\_wired))  
 Relay bridge (server: "eth1" (wan\_4g))

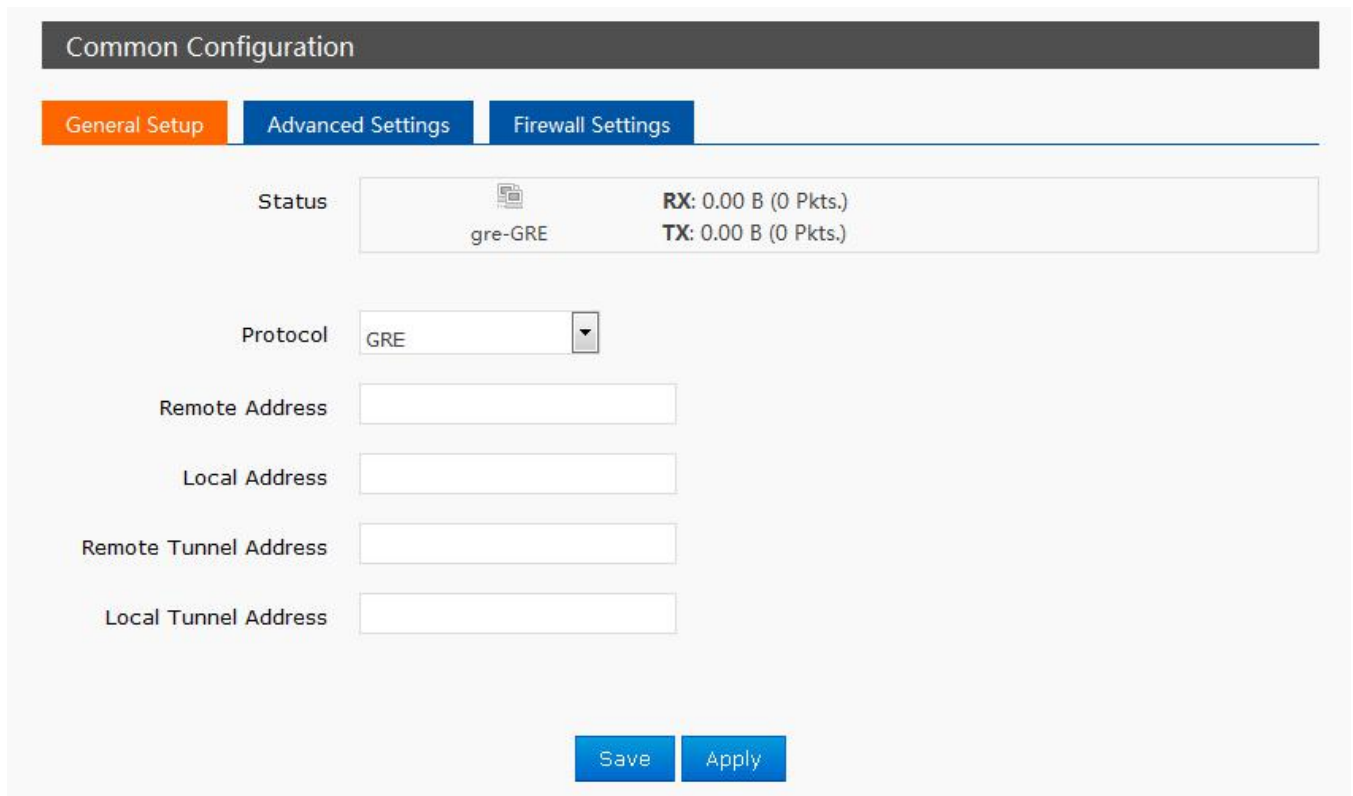
Options below dropdown:  
 Ethernet Adapter: "ip6gre0"  
 Ethernet Adapter: "ip6tnl0"  
 Ethernet Adapter: "ra0" (lan)  
 Ethernet Adapter: "teql0"  
 Wireless Network: Master "USR-G806-BB11" (lan)  
 Custom Interface:

Then click 'Submit'.

### 2.3. Configure GRE interface


After adding GRE interface, it will be GRE interface configuration web page.

Configure 'General Setup':



**Common Configuration**

General Setup | Advanced Settings | Firewall Settings

Status:  **gre-GRE**    **RX: 0.00 B (0 Pkts.)**  
**TX: 0.00 B (0 Pkts.)**

Protocol:  (dropdown)

Remote Address:

Local Address:

Remote Tunnel Address:

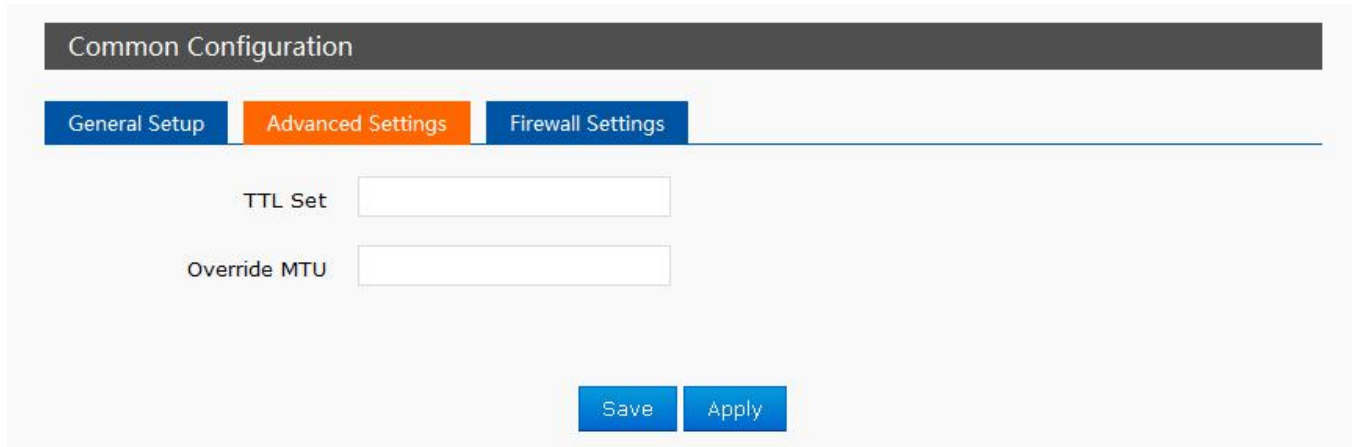
Local Tunnel Address:

- Remote Address: GRE Server WAN interface IP address.
- Local Address: Local WAN interface address.(wan\_wired address or wan\_4g address)
- Remote Tunnel Address: GRE Server tunnel IP address.

**Note:** Set it with subnet mask can follow following rules: subnet mask 255.0.0.0 can be IP/8; subnet mask 255.255.0.0 can be IP/16; subnet mask 255.255.255.0 can be IP/24; subnet mask 255.255.255.255 can be IP/32. For example, IP address 172.16.10.1 with subnet mask 255.255.255.0 can be 172.16.10.1/24.

- Local Tunnel Address: Local GRE tunnel IP address.

After configuring 'General Setup' and clicking 'Save&Apply', please configure 'Advanced Settings':



The screenshot shows a web interface for 'Common Configuration'. At the top, there are three tabs: 'General Setup', 'Advanced Settings' (which is selected and highlighted in orange), and 'Firewall Settings'. Below the tabs, there are two input fields: 'TTL Set' and 'Override MTU'. At the bottom right of the configuration area, there are two buttons: 'Save' and 'Apply'.

- TTL Set: Set TTL of GRE channel and default is 255.
- Override MTU: Set MTU of GRE channel and default is 1400.

### 3. Contact Us

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### 5. Update History

2018-06-29 V1.0.0 established.