

# Application Guide

## Hongdian-PPTP-Windows VPN



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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	2018.03.22	First Release

# 1 Overview

Hongdian Router supports PPTP function and acts as the VPN client. Here is the example to build up the PPTP VPN with Windows PC.

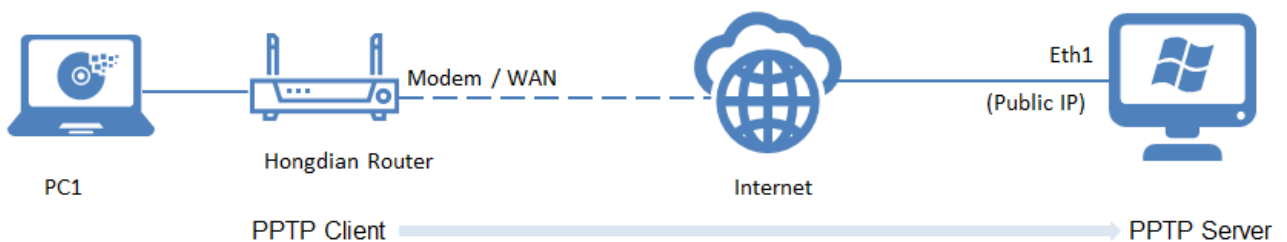
This document enable the VPN server in Windows 7 to allow PPTP client to visit, wherein, the Windows 7 just support 1 connection in this demo test.

## 2 Description

### 2.1 Topology

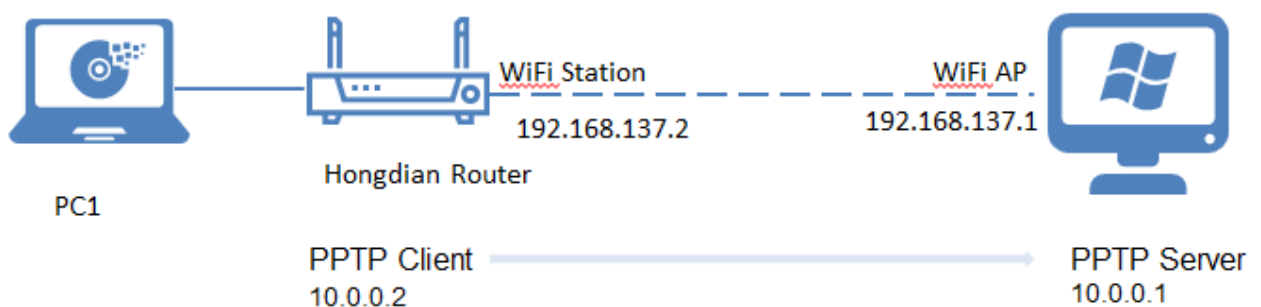
#### 2.1.1 On-site diagram

The diagram can be as below. Note that Hongdian Router access to Internet by WAN, and can ping the public IP of the PPTP Server. The PPTP connection can be build up.

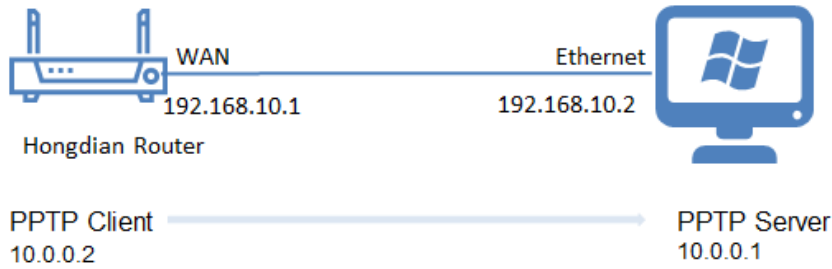


#### 2.1.2 Demo diagram

In this demo, we do the test through the LAN, and our diagram is as below. Using WiFi connection:



If your PC does not support WiFi AP, you can also use ETH connection, Router's WAN connect to Ethernet port of the PC.

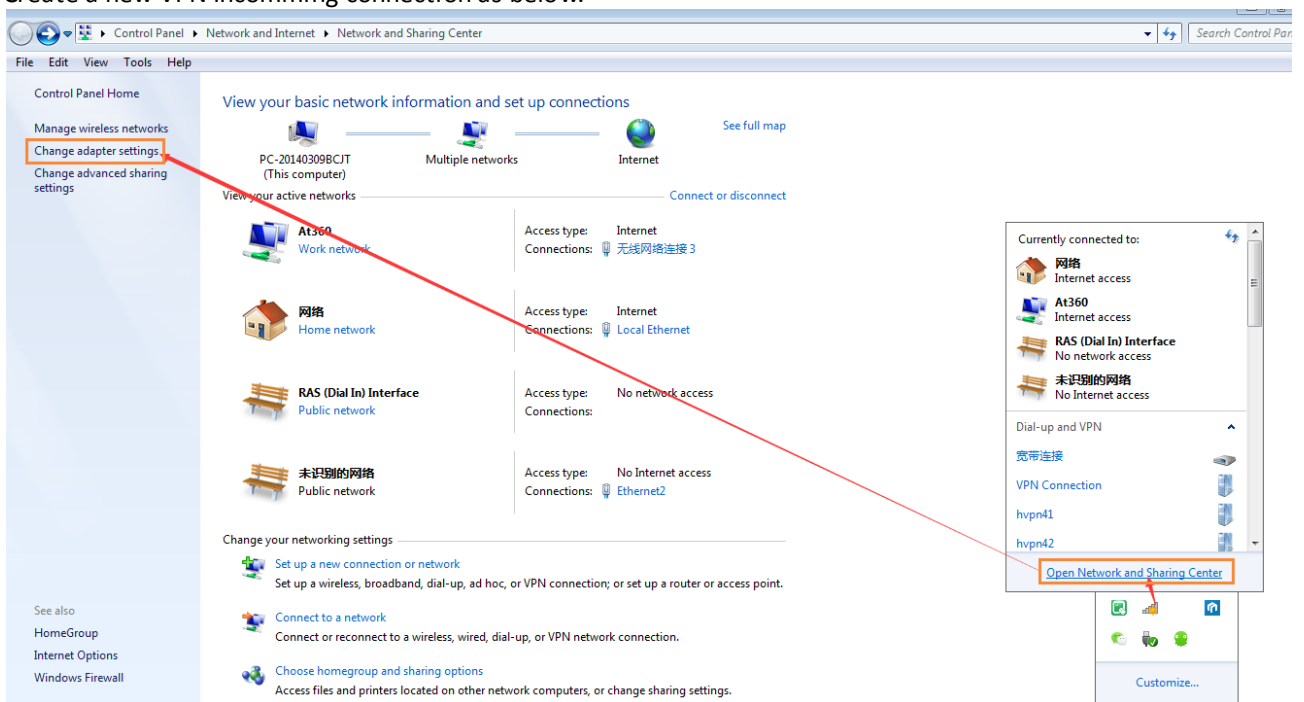


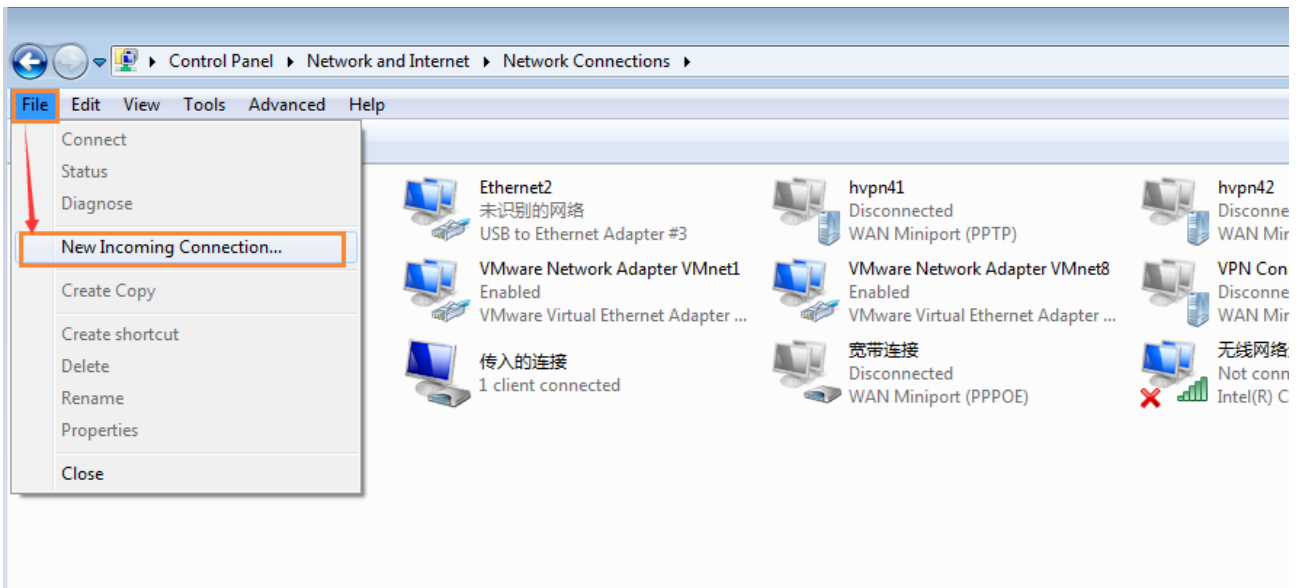
## 2.2 Preparation

### 2.2.1 Enable PPTP Server on Windows

Here take Windows7 to setup PPTP server.

Create a new VPN incoming connection as below.



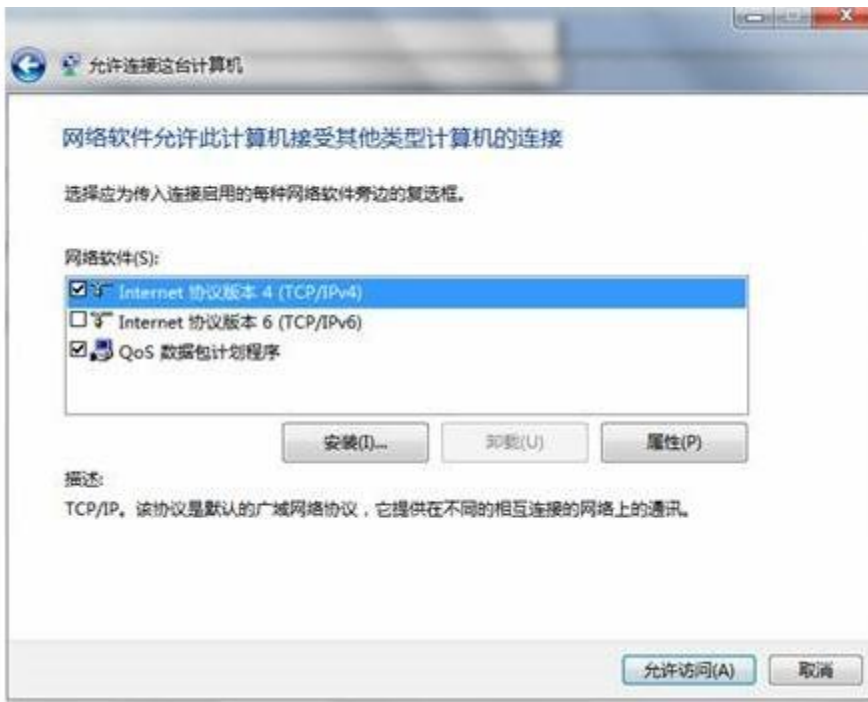


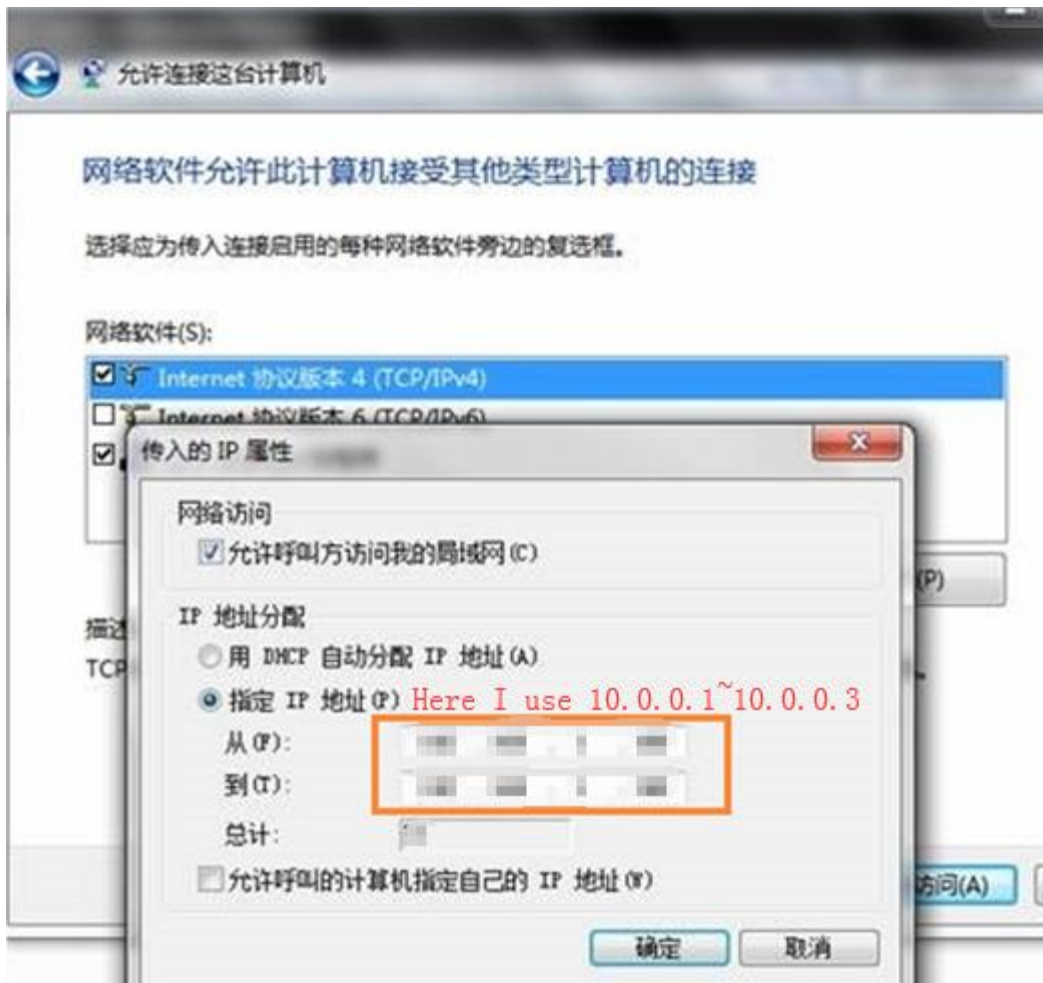
Add a new user, you should remember its password.





You can double click "IPv4" to Edit the IP range, such as 10.0.0.1~10.0.0.20

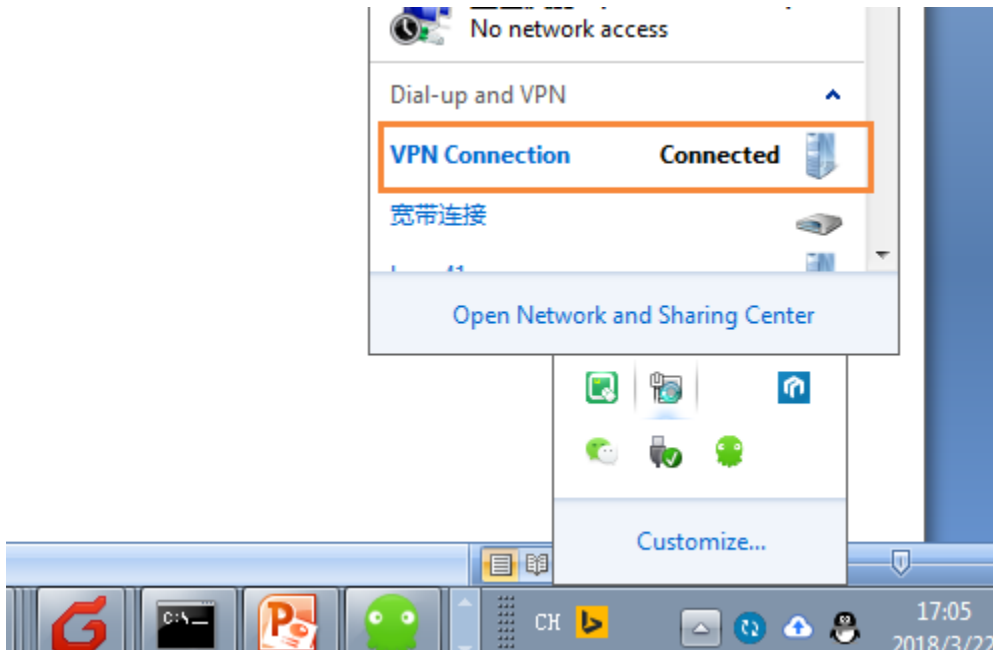
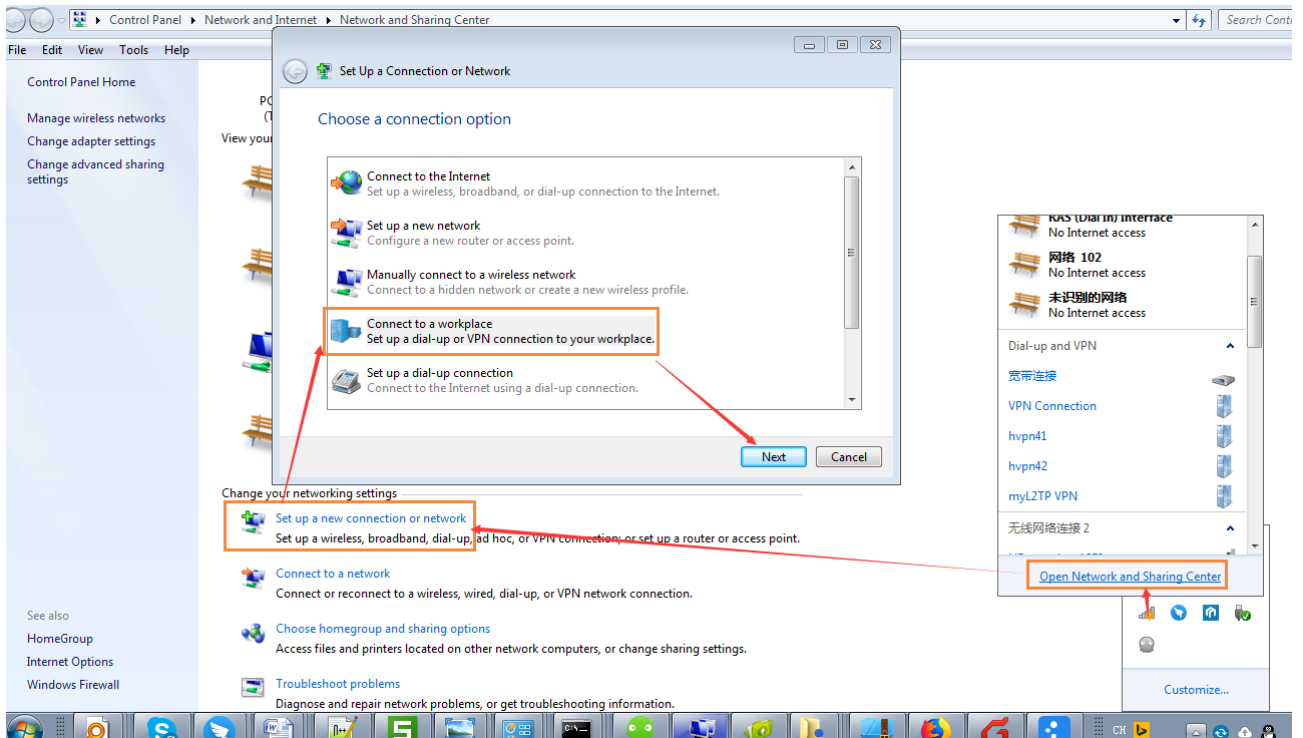




## 2.2.2 PPTP Connection Test

### Local PC Test

You can use local host to connect PPTP. That is, PPTP server and client are in one host. Use host's ethernet IP or 127.0.0.1, to build PPTP connection.



## Mobile Phone Test

If your PC enable WiFi AP allow your Android Phone connected by WiFi, you can also test VPN, as below.



17:09 0.54 K/s 52

&lt; VPN

VPN



VPN list

hdvpnZ



hongdian



qiliu



win7

Connected



ADD VPN

So these mean the PPTP Server is OK, and you can disconnect it and turn to use Hongdian Router to connect it.

## 2.3 Operation

1. Visit Hongdian Router's web GUI, make sure router can ping the Windows's IP(such as 192.168.137.1), you can use Network Test to ping, as below.

192.168.8.1/gui/tools.cgi

Connecting Machine ... Control Panel

Network Applications VPN Forward Security System Status

Local Log Remote Log Clock Account Network Test Files

Destination  \* [Ping](#) [Trace](#)

Result

Not Use con ping

2. After ping is OK, we can turn to set up the PPTP VPN.

Network Applications VPN Forward Security System Status

VPDN Tunnel IPsec OpenVPN

Tunnel secrets  Max length is 64 [Save](#)

Interface Name	Protocol	Server IP or Domain	Username	Operation				
p1	pptp	192.168.137.1	ztmian	<a href="#">Mod</a>	<a href="#">Del</a>	<a href="#">View</a>	<a href="#">En</a>	<a href="#">Dis</a>

[Add](#) [Refresh](#)

Help

**Note:** Based numbe

If a ne interfa the ent then th overwr

3. Edit info, wherein , server info may be different with your PC.

192.168.8.1/gui/vpn\_change.cgi?rule=p1

Connecting Machine ... Control Panel

Network Applications **VPN** Forward Security System Status

VPDN Tunnel IPsec OpenVPN

Enable it

VPDN Service  Enable  Disable [Help](#)

**Interfa**  
This is  
each V

**Basic Settings**

Interface Name  \* Max length is 8

Protocol

Server IP or Domain  \* Max length is 64

Username  Max length is 64

Password  Max length is 64

Advanced Settings [Hide](#)

**Server info**

**User N**  
The use  
for veri  
interfac

**Authentication**

CHAP	<input checked="" type="radio"/> Negotiation <input type="radio"/> Disable
PAP	<input checked="" type="radio"/> Negotiation <input type="radio"/> Disable
MS-CHAP	<input checked="" type="radio"/> Negotiation <input type="radio"/> Disable
MS2-CHAP	<input checked="" type="radio"/> Negotiation <input type="radio"/> Disable
EAP	<input checked="" type="radio"/> Negotiation <input type="radio"/> Disable

**Check**

**Compress**

192.168.8.1/gui/vpn\_change.cgi?rule=p1

**Compress**

- Compression Control Protocol  Require  Disable
- Address/Control Compression  Require  Disable
- Protocol Field Compression  Require  Disable
- VJ TCP/IP Header Compress  Require  Disable
- Connection-ID Compression  Require  Disable

Check

**More**

- Debug  Enable  Disable
- Peer's DNS  Enable  Disable
- LCP Interval  1-512 s
- LCP Retry  1-512 times
- MTU  128-16384 B
- MRU  128-16384 B
- Local IP  eg. 192.168.8.1
- Remote IP  eg. 192.168.8.254

**Professional**

**nomppe:** Disable Microsoft Point to Point Encryption.  
**mppe required:** Enable Stateful Microsoft Point to Point Encryption.  
**mppe stateless:** Enable Stateless Microsoft Point to Point Encryption.  
**nodeflate:** Disable Deflate

Input

mppe required  
mppe stateless

Save it and wait. ( Make sure the PPTP server is available, and can be connected.)

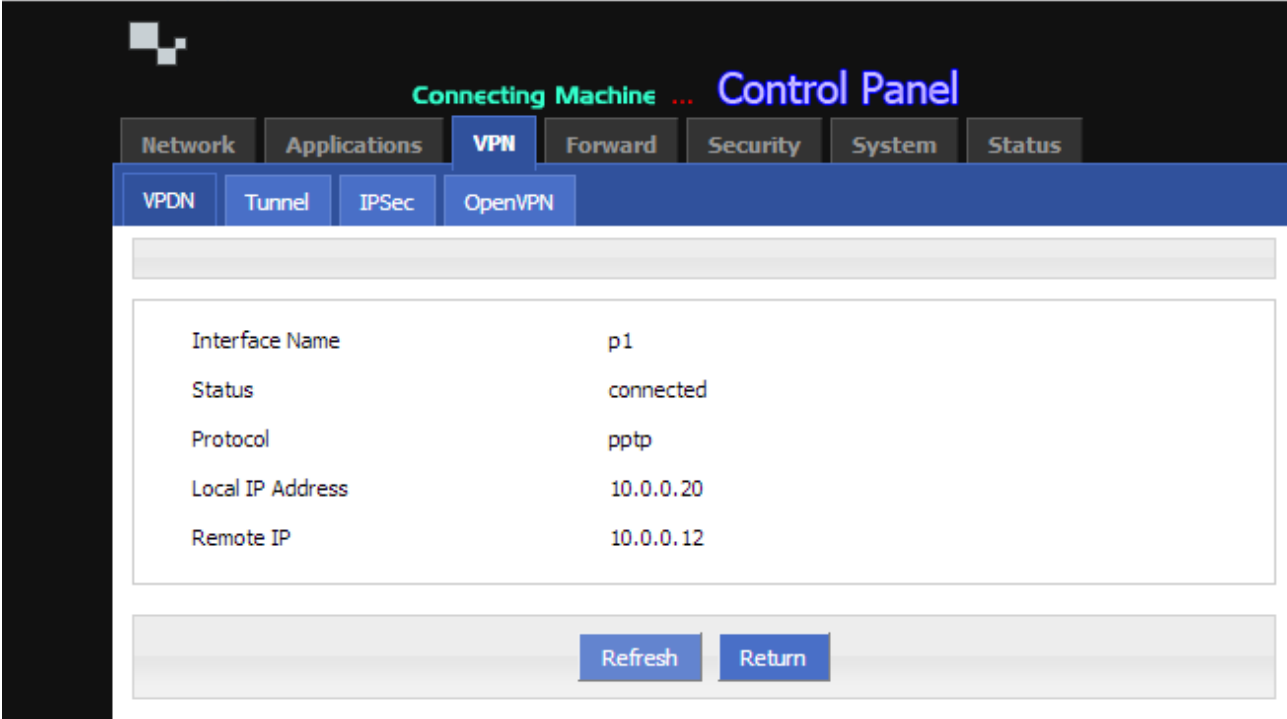
Connecting Machine ... Control Panel

Network Applications **VPN** Forward Security System Status

VPDN Tunnel IPsec OpenVPN

Tunnel secrets  Max length is 64 [Save](#)

Interface Name	Protocol	Server IP or Domain	Username	Operation				
p1	pptp	192.168.137.1	ztmian	<a href="#">Mod</a>	<a href="#">Del</a>	<a href="#">View</a>	<a href="#">En</a>	<a href="#">Dis</a>



The screenshot shows a web browser window with the address bar displaying `192.168.8.1/gui/vpn_view.cgi?rule=p1`. The page title is "Connecting Machine ... Control Panel". The navigation menu includes "Network", "Applications", "VPN", "Forward", "Security", "System", and "Status". Under the "VPN" menu, there are sub-menus for "VPDN", "Tunnel", "IPSec", and "OpenVPN". The main content area displays the following connection details:

Interface Name	p1
Status	connected
Protocol	pptp
Local IP Address	10.0.0.20
Remote IP	10.0.0.12

At the bottom of the content area, there are two buttons: "Refresh" and "Return".

4. You can also view the log, if connect fail, you can export the message.txt log and send to us.

j.cgi

Build Time: Sat

## Connecting Machine ... Control Panel

Network Applications VPN Forward Security System Status

Local Log Remote Log Clock Account Network Test Files

Local Log Message View Clear **Export**

**Note:**  
Select the type of view. Then click the content of log will log display table.

### Log Display Table

```

Jan 20 01:50:39 20:15:01:01:00:00 daemon.info modem[6472]: change_modem_parameter(interface
modem 0){modem.c->1453}
Jan 20 01:50:39 20:15:01:01:00:00 daemon.info modem[6472]: simcard(1),status.simcard(1){modem.c-
>1471}
Jan 20 01:50:39 20:15:01:01:00:00 daemon.info modem[6472]: killall modem{modem.c->4877}
Jan 20 01:50:39 20:15:01:01:00:00 daemon.warn modem[6472]: change interface modem to ECwwan0
error(-1){base_operate.c->3530}(errno=19)
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: default network mode{ppp_transfor.c-
>297}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: Modem dail fail reset system interval :
1440min{ppp_transfor.c->1124}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: modem_auth_type_config:
[pap+chap]=3{modem.c->6100}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: modem_pin_config:[]{modem.c-
>6103}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: find the modem(Quectel-EC25:16)
{modemcheck.c->203}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.warn modem[6755]: change interface modem to ECwwan0
error(-1){base_operate.c->3530}(errno=19)
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6755]: Release AT control port OK!(fd:6)
{modem.c->4665}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6472]: pppd(6755) terminate(0){modem.c-
>4496}
Jan 20 01:50:40 20:15:01:01:00:00 daemon.info modem[6472]: g_dial_failed_counter++{modem.c-
>4498}

```



*Create smart things*



## **Contact us**

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