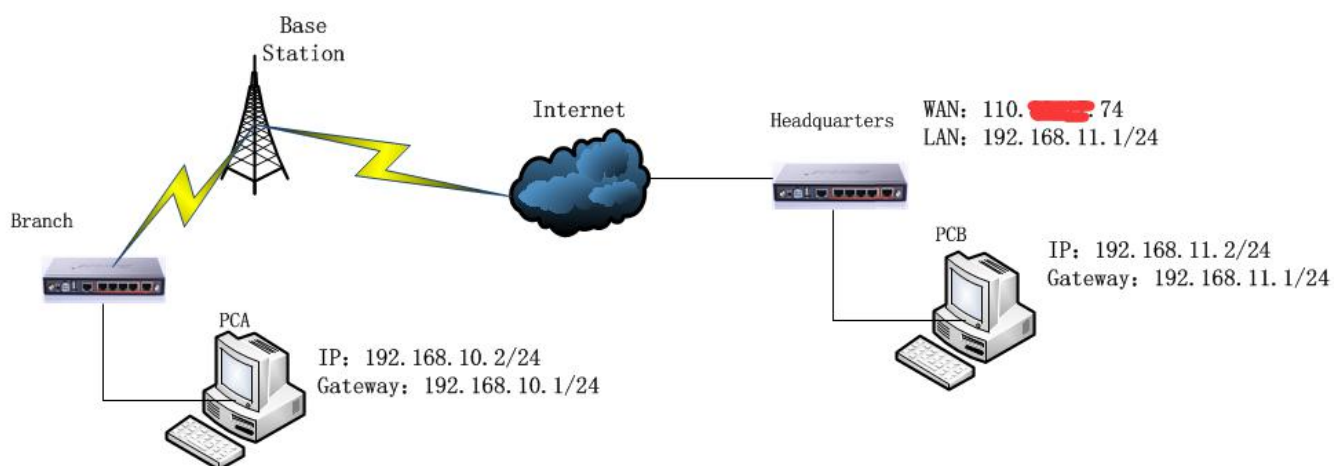


# Caimore Router Point to Point IPsec VPN Connection Guide

**Purpose :** To achieve that two caimore router access each other in the different lan address segment.

**Topology:**



**Requirement:**

Branch and headquarter can access each other, PCA and PCB can access

**Method:** Use Caimore router to build up IPsec VPN, branch router use SIM to dial up to access to internet, headquarter use fixed IP 110.\*.\*.74 to access to internet;

**Remark:** Headquarter need fixed IP address ( it can be domain or IP which can be access by branc's router )

**Procedure:**

1、Headquarter Router Configure;

Headquarter Router work mode, see picture as below:

Basic

- WAN
- LAN
- WIFI
- DDNS
- KeepAlive

Advance

- Filter
- NAT/DMZ/UPNP
- Route

VPN

- GRE
- PPTP
- IPSEC/L2TP

internet management

- QoS

System

- Status
- Wifi Probe
- SNMP
- User
- Upgrade
- Debug

Other

CTU

### Wan Config

#### Wireless

Center

APN

User

Password

Sound mode

Advance

Apply Reset

---

#### PPPoE

Work Mode

User

Password

enable WAN MASQUERADE

self-adaption tcpmss

enable static ip

static ip

gw ip

Apply Reset

Headquarter router IPsec VPN configure, see picture as below:

The screenshot displays the IPsec configuration page in a network management system. The left sidebar shows a tree view with 'IPSEC/L2TP' selected. The main configuration area is titled 'IPsec' and includes the following sections:

- Connection Mode:** Passivity (dropdown)
- Remote Address:** (text input)
- Transport Mode:** Tunnel (dropdown)
- Local Endpoint Type:** Network-To-Network (dropdown)
- Endpoint Table:**

#	Subnet *	Nexthop IP	IPsec Port	IPsec Identity
Remote	192.168.10.0/24			@client.com
Local	192.168.11.0/24			@server.com
- Phase 1:**
  - Work Mode: Main (dropdown)
  - Perfect Forward Secrecy(PFS):
  - Debug:
  - Enable NAT Traversal:
  - Authentication: Pre-shared Key (dropdown)
  - Cipher: 3DES (dropdown)
  - Hash: MD5 (dropdown)
  - DHgroup: Group2 (modp1024) (dropdown)
  - SA Lifetime: s: 86400
  - Key: (text input with masked characters)
- Phase 2:**
  - DHgroup: Group2 (modp1024) (dropdown)
  - Cipher: 3DES (dropdown)
  - Hash: MD5 (dropdown)
  - SA Lifetime: s: 28800
- Other:**
  - DPD Delay: s: 3
  - DPD Timeout: s: 30
  - IPcomp:

Buttons for 'Apply' and 'Reset' are located at the bottom of the configuration area.

## 2、Branch's router configure;

Caimore router default access internet mode is by SIM,see picture as below

**Wan Config**

**Wireless**

Center   
 APN   
 User   
 Password   
 Sounet mode

**Advance** Apply Reset

---

**PPPoE**

Work Mode   
 User   
 Password

enable WAN MASQUERADE  
 self-adaption tcpmss

Apply Reset

Branch's router IPsec VPN configure, see picture as below:

**IPsec**

Connection Mode   
 Remote Address   
 Transport Mode   
 Local Endpoint Type

#	Subnet *	Nexthop IP	IPsec Port	IPsec Identity
Remote	192.168.11.0/24			@server.com
Local	192.168.10.0/24			@client.com

**Phase 1**

Work Mode   
 Perfect Forward Secrecy(PFS)  
 Debug  
 Enable NAT Traversal

Authentication	Cipher	Hash	DHgroup	SA Lifetime : s
Pre-shared Key	3DES	MD5	Group2 (modp1024)	86400

Key:

**Phase 2**

DHgroup

Cipher	Hash	SA Lifetime : s
3DES	MD5	28800

**Other**

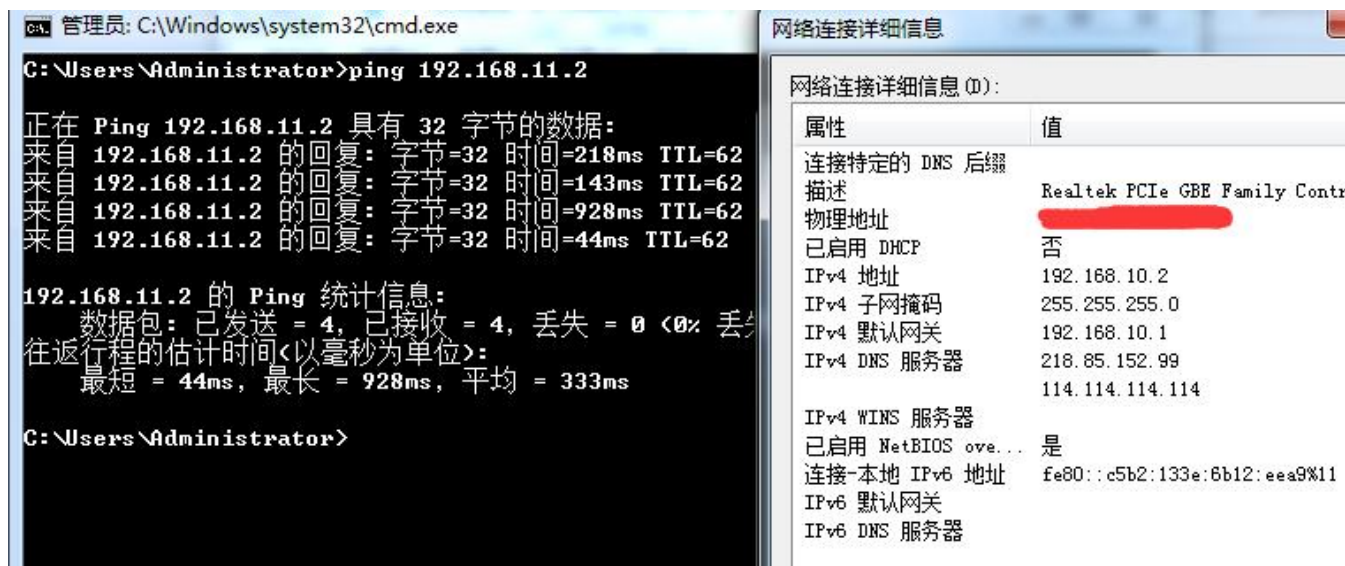
DPD Delay: s   
 DPD Timeout: s   
 IPcomp

Apply Reset

3、 Branch's router---System Management---System Status, to check IPsec linkage status, see picture as below, it shows "connected";



4、 Access Test of PCA and PCB;  
Through test PCA and PCB can ping each other;  
PCA access PCB picture as below:



PCB access PCA picture as below:

ca. 管理员: C:\Windows\system32\cmd.exe

```
正在 Ping 192.168.10.2 具有 32 字节的数据:
来自 192.168.10.2 的回复: 字节=32 时间=613ms TTL=62
来自 192.168.10.2 的回复: 字节=32 时间=1915ms TTL=62
来自 192.168.10.2 的回复: 字节=32 时间=164ms TTL=62
来自 192.168.10.2 的回复: 字节=32 时间=2646ms TTL=62

192.168.10.2 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 (0% 丢失)
    往返行程的估计时间(以毫秒为单位):
        最短 = 164ms, 最长 = 2646ms, 平均 = 1334ms

C:\Users\HP.Lee>ping 192.168.10.2

正在 Ping 192.168.10.2 具有 32 字节的数据:
来自 192.168.10.2 的回复: 字节=32 时间=222ms TTL=62
来自 192.168.10.2 的回复: 字节=32 时间=511ms TTL=62
来自 192.168.10.2 的回复: 字节=32 时间=828ms TTL=62
来自 192.168.10.2 的回复: 字节=32 时间=926ms TTL=62

192.168.10.2 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 (0% 丢失)
```

本地连接 状态

常规

网络连接详细信息

网络连接详细信息 (0):

属性	值
连接特定的 DNS 后缀	
描述	Realtek PCIe GBE Family
物理地址	
已启用 DHCP	否
IPv4 地址	192.168.11.2
IPv4 子网掩码	255.255.255.0
IPv4 默认网关	192.168.11.1
IPv4 DNS 服务器	218.85.152.99 114.114.114.114
IPv4 WINS 服务器	
已启用 NetBIOS over...	是