E-Lins Router IPSec Aggressive Mode

This is IPsec settings example for H685/H820/H700/H720/H750 router.

IPSec Server: H685/H820/H700/H720/H750 router, WAN IP: 113.114.209.107, LAN IP: 192.168.8.1, connected device LAN IP: 192.168.8.100;
IPSec Client: H685/H820/H700/H720 router, WAN IP:113.114.205.243, LAN IP: 10.152.3.100, connected device LAN IP: 10.152.3.101;
Mode: Aggressive
Network Type: Any

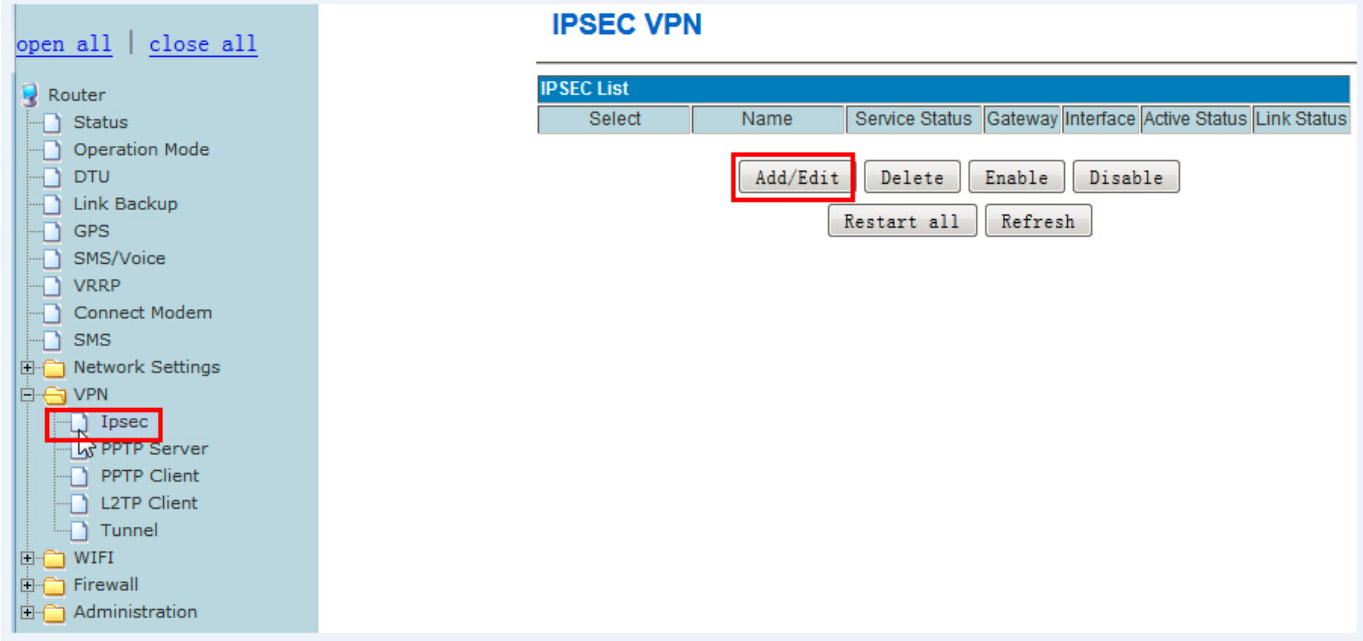
Notes: If use IPsec VPN, the VPN Server WAN IP should be visited from Client side without VPN. Otherwise the VPN connection will not be connected.

Server Side

Step 1) Confirm H685/H820/H7X0 Router can be online if it uses WAN CELL Network.

Internet Configurations	
Connected Type	CELL
WAN IP Address	113.114.209.107
Subnet Mask	255.255.255.255
Default Gateway	115.168.82.165
Primary Domain Name Server	202.96.128.86
Secondary Domain Name Server	220.192.32.103
WAN Speed	download: 0 KBps upload: 0 KBps
MAC Address	08:66:01:03:6B:56
Local Network	
Local IP Address	192.168.8.1
Local Netmask	255.255.255.0
MAC Address	08:66:01:03:6B:57
IPSEC Status	
Name	Status
vpn1	Active: Active Link: up
PPTP Client Status	
PPTP	down
PPTP IP	
PPTP Remote IP	
L2TP Client Status	
L2TP	down

Step 2) Configure IPSec.


open all | close all
Router
Status
Operation Mode
DTU
Link Backup
GPS
SMS/Voice
VRRP
Connect Modem
SMS
Network Settings
VPN
Ipsec
PPTP Server
PPTP Client
L2TP Client
Tunnel
WIFI
Firewall
Administration
IPSEC VPN
IPSEC List
Select
Name
Service Status
Gateway
Interface
Active Status
Link Status
Add/Edit
Delete
Enable
Disable
Restart all
Refresh


IPSEC VPN
IPSEC List
Select
Name
Service Status
Gateway
Interface
Active Status
Link Status
vpn1
service
113.114.205.243
WAN
Active
up
Add/Edit
Delete
Enable
Disable
Restart all
Refresh

IPSEC VPN

IPSEC	
Name (ID/FQDN)	vpn1
Service Mode	Server
Local Network Type	Subnet
Local IP	192.168.8.0 / 24
Remote Network Type	Subnet
Remote IP	10.152.3.0 / 24
Auth method	Pre Shared Key
Password	••••
Interface	WAN
	Advance

Apply Reset

NAT Traversal	☑
DPD Check	☑
DPD Interval (sec)	60
DPD Maximum Failures	3
Phase1	
Proposal Check	obey
Encryption Algorthm	3DES
Hash Algorthm	MD5
DH Groups	modp1024/2
Life Time (sec)	28800
Phase2	
Encryption Algorthm	3DES
Hash Algorthm	MD5
DH Groups	modp1024/2
Life Time (sec)	3600
Perfect Forward Secrecy	☐

Apply Reset

Client Side

Step 1) Confirm H685/H820/H7X0 Router can be online if it uses WAN CELL Network.

Internet Configurations	
Connected Type	CELL
WAN IP Address	113.114.205.243
Subnet Mask	255.255.255.255
Default Gateway	183.40.0.1
Primary Domain Name Server	202.96.128.86
Secondary Domain Name Server	220.192.32.103
WAN Speed	download: 0 KBps upload: 0 KBps
MAC Address	08:66:01:03:F6:6E
Local Network	
Local IP Address	10.152.3.100
Local Netmask	255.255.255.0
MAC Address	08:66:01:03:F6:6F
IPSEC Status	
Name	Status
vpn1	Active: Active Link: up
PPTP Client Status	
PPTP	down
PPTP IP	
PPTP Remote IP	
L2TP Client Status	
L2TP	down
L2TP IP	
L2TP Remote IP	

Step 2) Configure IPSec.

IPSEC VPN

IPSEC List

Select	Name	Service Status	Gateway	Interface	Active Status	Link Status
☐	vpn1	client	113.114.209.107	WAN	Active	up

Add/Edit | Delete | Enable | Disable

Restart all | Refresh

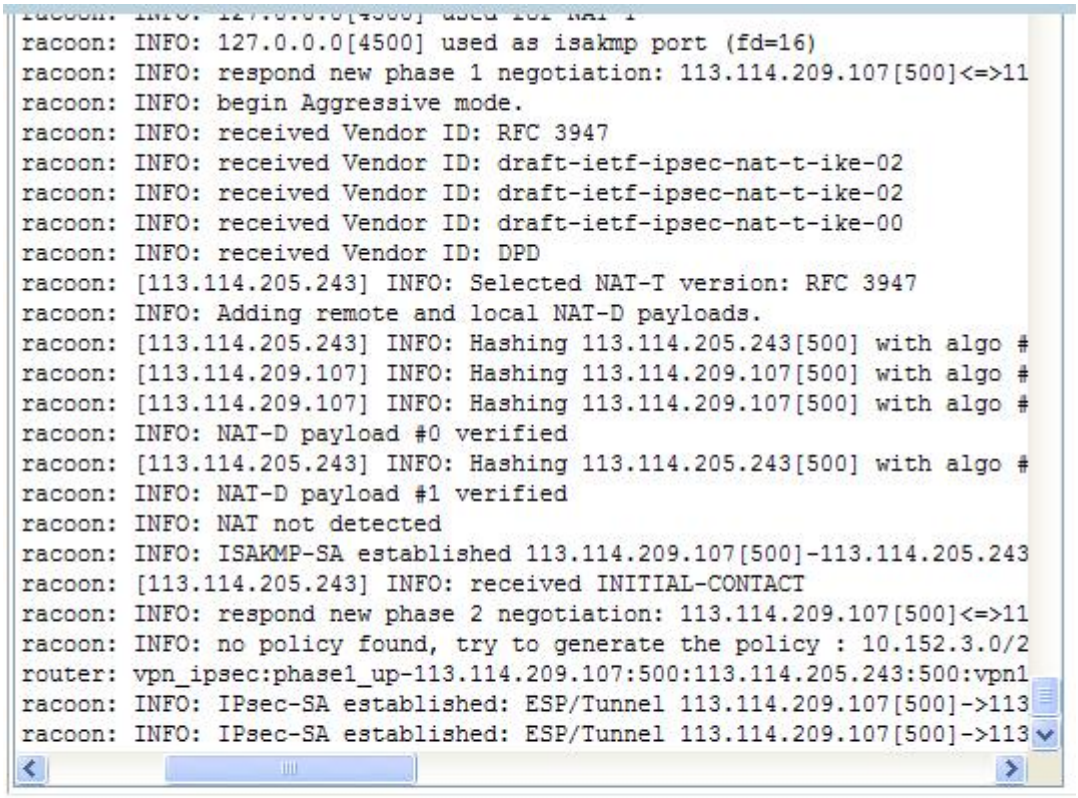
IPSEC	
Name (ID/FQDN)	vpn1
Service Mode	Client
Exchange Mode	Aggressive
Gateway	113.114.209.107
Local Network Type	Subnet
Local IP	10.152.3.0 / 24
Remote Network Type	Subnet
Remote IP	192.168.8.0 / 24
Auth method	Pre Shared Key
Password	••••
Interface	WAN
	Advance

Apply Reset

NAT Traversal	☑
DPD Check	☑
DPD Interval (sec)	60
DPD Maximum Failures	3
Phase1	
Proposal Check	obey
Encryption Algorthm	3DES
Hash Algorthm	MD5
DH Groups	modp1024/2
Life Time (sec)	28800
Phase2	
Encryption Algorthm	3DES
Hash Algorthm	MD5
DH Groups	modp1024/2
Life Time (sec)	3600
Perfect Forward Secrecy	☐

Apply Reset

System Log Indication



Refresh Clear

Export

```
INFO: 113.114.205.243[4500] used as isakmp port (fd=11)
INFO: 127.0.0.1[500] used for NAT-T
INFO: 127.0.0.1[500] used as isakmp port (fd=12)
INFO: 127.0.0.1[4500] used for NAT-T
INFO: 127.0.0.1[4500] used as isakmp port (fd=13)
INFO: 127.0.0.0[500] used for NAT-T
INFO: 127.0.0.0[500] used as isakmp port (fd=14)
INFO: 127.0.0.0[4500] used for NAT-T
INFO: 127.0.0.0[4500] used as isakmp port (fd=15)
INFO: IPsec-SA request for 113.114.209.107 queued due to no phase1 foun
INFO: initiate new phase 1 negotiation: 113.114.205.243[500]<=>113.114.
INFO: begin Aggressive mode.
INFO: received Vendor ID: RFC 3947
INFO: received Vendor ID: DPD
[113.114.209.107] INFO: Selected NAT-T version: RFC 3947
[113.114.205.243] INFO: Hashing 113.114.205.243[500] with algo #1
INFO: NAT-D payload #-1 verified
[113.114.209.107] INFO: Hashing 113.114.209.107[500] with algo #1
INFO: NAT-D payload #0 verified
INFO: NAT not detected
[113.114.209.107] NOTIFY: couldn't find the proper pskey, try to get on
INFO: Adding remote and local NAT-D payloads.
[113.114.209.107] INFO: Hashing 113.114.209.107[500] with algo #1
[113.114.205.243] INFO: Hashing 113.114.205.243[500] with algo #1
INFO: ISAKMP-SA established 113.114.205.243[500]-113.114.209.107[500] s
INFO: initiate new phase 2 negotiation: 113.114.205.243[500]<=>113.114.
[113.114.209.107] INFO: received INITIAL-CONTACT
vpn_ipsec:phase1_up-113.114.205.243:500:113.114.209.107:500:vpn1
INFO: IPsec-SA established: ESP/Tunnel 113.114.205.243[500]->113.114.20
```

Refresh Clear

Export

Test the connection

Step 1) from Client to Server.

```
C:\Users\Sales10>ping 192.168.8.1

正在 Ping 192.168.8.1 具有 32 字节的数据:
来自 192.168.8.1 的回复: 字节=32 时间=743ms TTL=63
来自 192.168.8.1 的回复: 字节=32 时间=128ms TTL=63
来自 192.168.8.1 的回复: 字节=32 时间=162ms TTL=63
来自 192.168.8.1 的回复: 字节=32 时间=155ms TTL=63

192.168.8.1 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 = 128ms, 最长 = 743ms, 平均 = 297ms
```

```
C:\Users\Sales10>ping 192.168.8.100

正在 Ping 192.168.8.100 具有 32 字节的数据:
来自 192.168.8.100 的回复: 字节=32 时间=149ms TTL=62
来自 192.168.8.100 的回复: 字节=32 时间=122ms TTL=62
来自 192.168.8.100 的回复: 字节=32 时间=143ms TTL=62
来自 192.168.8.100 的回复: 字节=32 时间=140ms TTL=62

192.168.8.100 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 = 122ms, 最长 = 149ms, 平均 = 138ms
```

Step 2) from Server to Client.

```
C:\Documents and Settings\Administrator>ping 10.152.3.100

Pinging 10.152.3.100 with 32 bytes of data:

Reply from 10.152.3.100: bytes=32 time=138ms TTL=63
Reply from 10.152.3.100: bytes=32 time=137ms TTL=63
Reply from 10.152.3.100: bytes=32 time=145ms TTL=63
Reply from 10.152.3.100: bytes=32 time=114ms TTL=63

Ping statistics for 10.152.3.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 114ms, Maximum = 145ms, Average = 133ms
```

```
C:\Documents and Settings\Administrator>ping 10.152.3.101

Pinging 10.152.3.101 with 32 bytes of data:

Reply from 10.152.3.101: bytes=32 time=188ms TTL=62
Reply from 10.152.3.101: bytes=32 time=142ms TTL=62
Reply from 10.152.3.101: bytes=32 time=136ms TTL=62
Reply from 10.152.3.101: bytes=32 time=127ms TTL=62

Ping statistics for 10.152.3.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 127ms, Maximum = 188ms, Average = 148ms
```