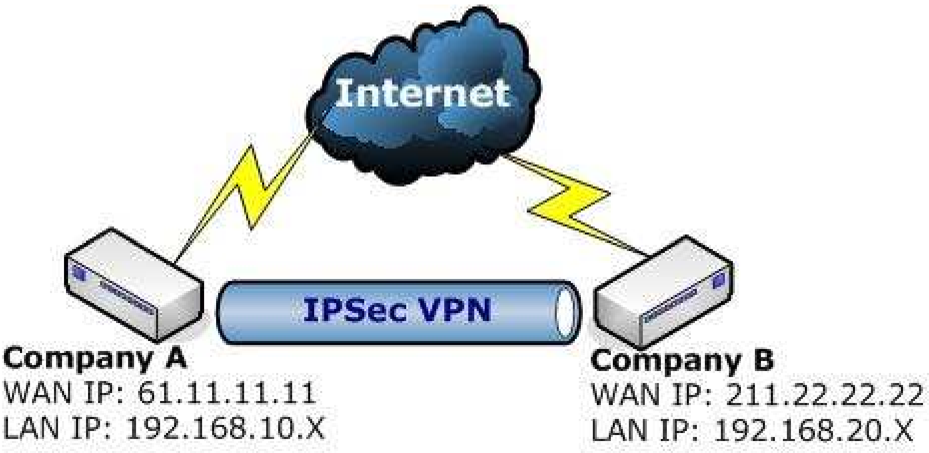
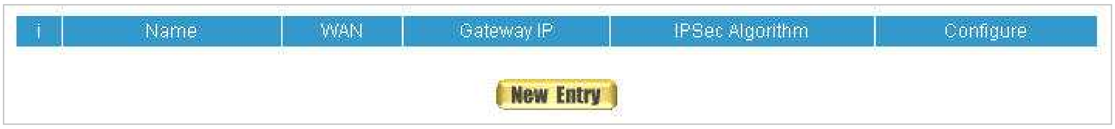
How to create the IPSec VPN between 2 x RS-1200?



This example takes two RS-1200s as work platform.
Suppose Company A **192.168.10.100** create a VPN connection with Company B **192.168.20.100** for downloading the sharing file.

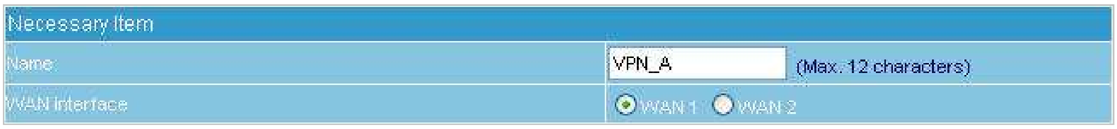
The Default Gateway of Company A is the LAN IP of the RS-1200 192.168.10.1. Follow the steps below:

Step1: Enter the default IP of Gateway of Company A's RS-1200 with 192.168.10.1, and select **IPSec Autokey** in **VPN**. Click **New Entry**.



i	Name	WAN	Gateway IP	IPSec Algorithm	Configure

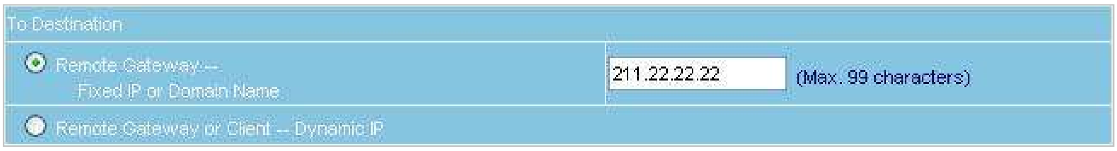
Step2: In the list of **IPSec Autokey**, fill in Name with **VPN_A.**



Necessary Item	
Name:	VPN_A (Max. 12 characters)
WAN Interface	● WAN 1 ○ WAN 2

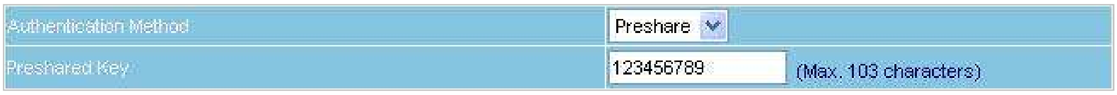
How to create the IPSec VPN between 2 x RS-1200?

Step3: Select **Remote Gateway-Fixed IP or Domain Name** In **To Destination** list and enter the IP Address.



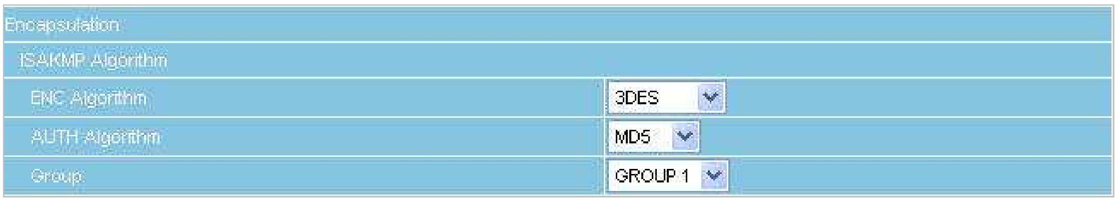
To Destination	
◉ Remote Gateway -- Fixed IP or Domain Name	211.22.22.22 (Max. 99 characters)
○ Remote Gateway or Client -- Dynamic IP	

Step4: Select **Preshare** in **Authentication Method** and enter the **Preshared Key**



Authentication Method	Preshare
Preshared Key	123456789 (Max. 103 characters)

Step5: Select **ISAKMP Algorithm** in **Encapsulation** list. Choose the Algorithm when setup connection. Please select ENC Algorithm (**3DES/DES/AES**), AUTH Algorithm (**MD5/SHA1**), and Group (**GROUP1, 2, 5**). Both sides have to choose the same group. Here we select 3DES for ENC Algorithm, MD5 for AUTH Algorithm and GROUP1 for Group.



Encapsulation	
ISAKMP Algorithm	
ENC Algorithm	3DES
AUTH Algorithm	MD5
Group	GROUP 1

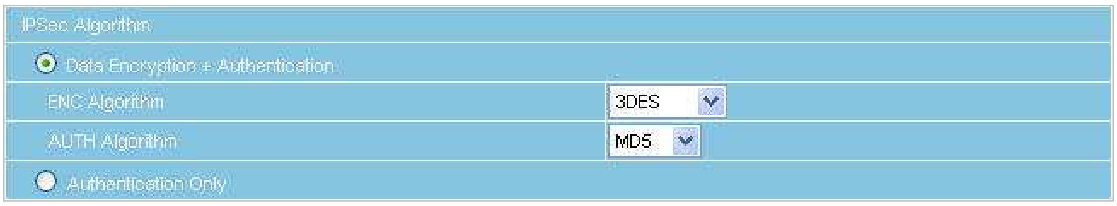
Step6: You can choose Data Encryption + Authentication or Authentication Only to communicate in **IPSec Algorithm** list:

. ENC Algorithm: **3DES/DES/AES/NULL**

. AUTH Algorithm: **MD5/SHA1**

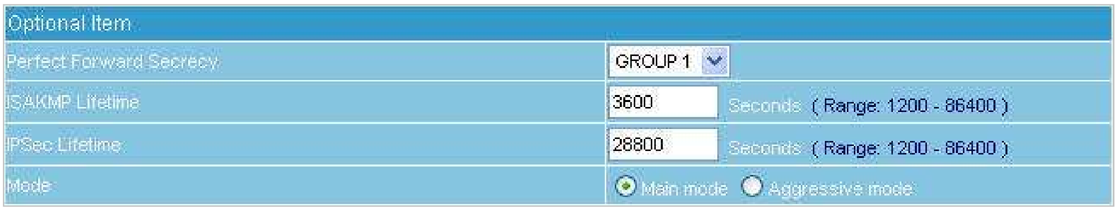
Here we select 3DES for ENC Algorithm and MD5 for AUTH Algorithm to make sure the encapsulation way for data transmission

How to create the IPSec VPN between 2 x RS-1200?



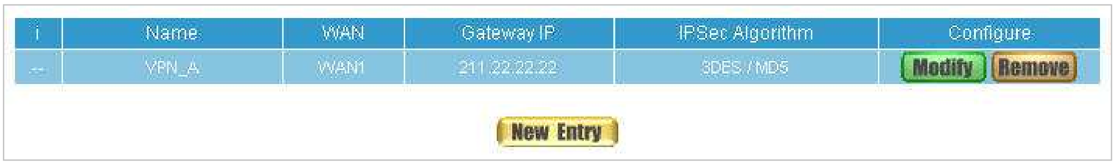
IPSec Algorithm	
● Data Encryption + Authentication	
ENC Algorithm	3DES
AUTH Algorithm	MD5
○ Authentication Only	

Step7: Select GROUP1 in **Perfect Forward Secrecy**, enter 3600 seconds in **ISAKMP Lifetime**, enter 28800 seconds in **IPSec Lifetime**, and selecting Main mode in **Mode**.



Optional Item	
Perfect Forward Secrecy	GROUP 1
ISAKMP Lifetime	3600 Seconds (Range: 1200 - 86400)
IPSec Lifetime	28800 Seconds (Range: 1200 - 86400)
Mode	● Main mode ○ Aggressive mode

Step8: Complete the IPSec Autokey setting.

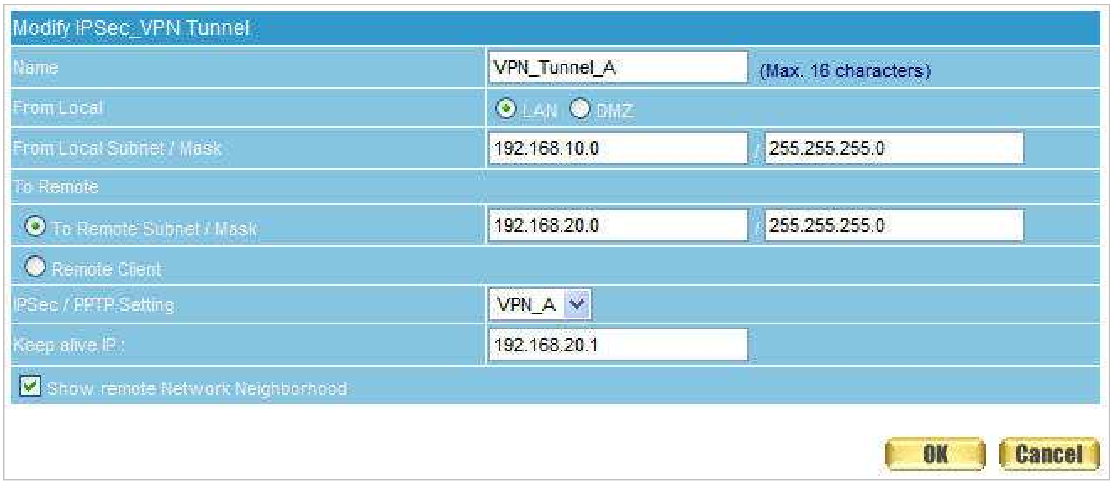


i	Name	WAN	Gateway IP	IPSec Algorithm	Configure
--	VPN_A	WAN1	211.22.22.22	3DES / MD5	Modify Remove

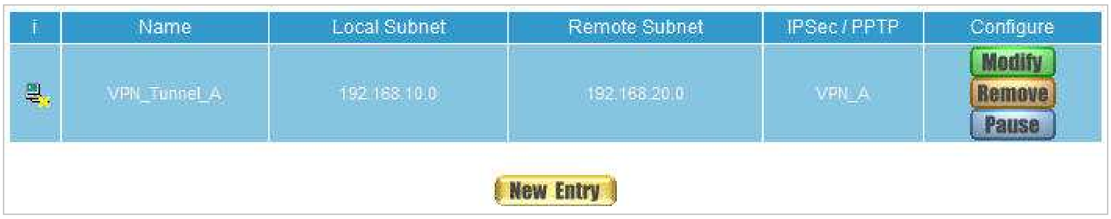
Step9: Enter the following setting in **Tunnel** of **VPN** function**:**

- Enter a specific Tunnel **Name**, for example VPN_Tunnel_A.
- **From Source:** Select LAN
- **From Source Subnet / Mask:** Enter 192.168.10.0 / 255.255.255.0.
- **To Destination:** Select To Destination Subnet / Mask.
- **To Destination Subnet / Mask:** Enter 192.168.20.0 / 255.255.255.0.
- **IPSec / PPTP Setting:** Select VPN_A.
- Enter 192.168.20.1 (the Default Gateway of Company B) as the **Keep alive IP**
- Select **Show remote Network Neighborhood** and Click **OK**.

How to create the IPSec VPN between 2 x RS-1200?



Modify IPSec_VPN Tunnel		
Name	VPN_Tunnel_A	(Max. 16 characters)
From Local	● LAN ○ DMZ	
From Local Subnet / Mask	192.168.10.0	/ 255.255.255.0
To Remote		
● To Remote Subnet / Mask	192.168.20.0	/ 255.255.255.0
○ Remote Client		
IPSec / PPTP Setting	VPN_A	
Keep alive IP :	192.168.20.1	
☑ Show remote Network Neighborhood		

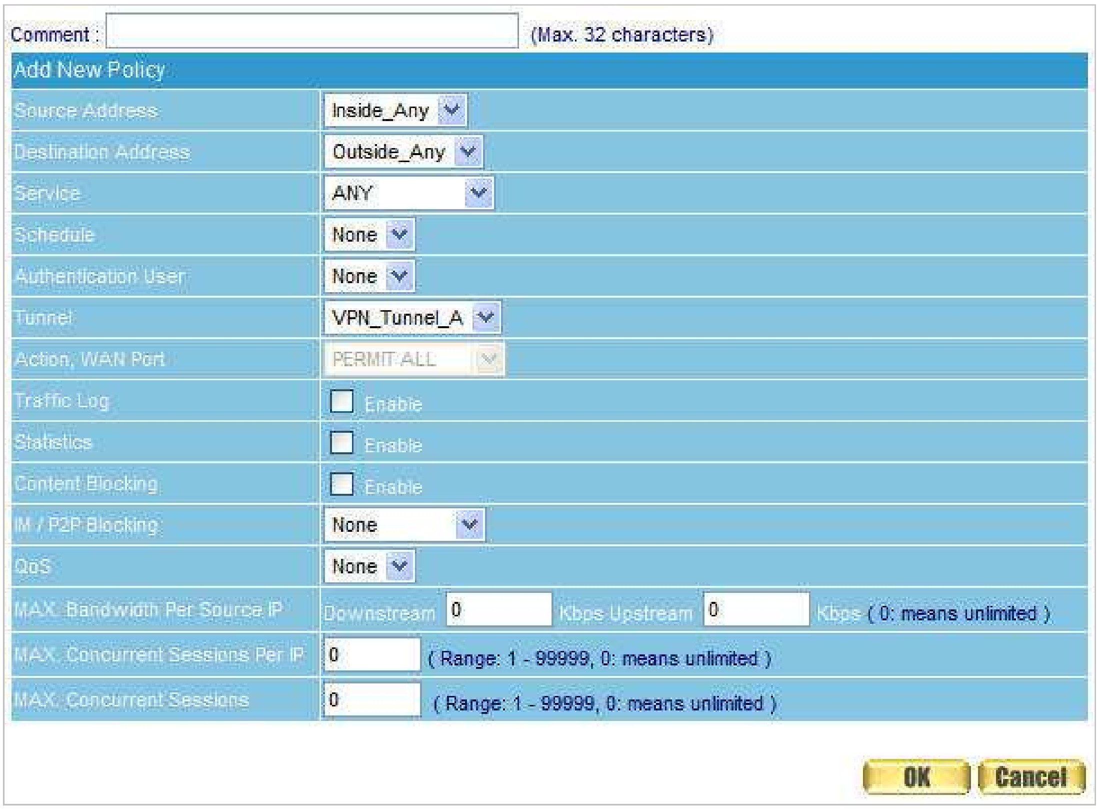


i	Name	Local Subnet	Remote Subnet	IPSec / PPTP	Configure
	VPN_Tunnel_A	192.168.10.0	192.168.20.0	VPN_A	Modify Remove Pause

Step10: Enter the following setting in **Outgoing Policy:**

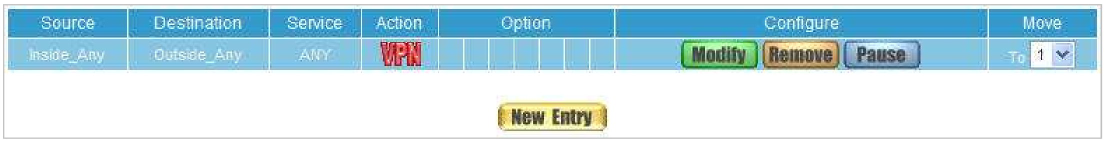
- **Tunnel:** Select VPN_Tunnel_A.
- Click **OK**.

How to create the IPSec VPN between 2 x RS-1200?



Comment : (Max. 32 characters)

Add New Policy	
Source Address	Inside_Any
Destination Address	Outside_Any
Service	ANY
Schedule	None
Authentication User	None
Tunnel	VPN_Tunnel_A
Action, WAN Port	PERMIT ALL
Traffic Log	□ Enable
Statistics	□ Enable
Content Blocking	□ Enable
IM / P2P Blocking	None
QoS	None
MAX. Bandwidth Per Source IP	Downstream 0 Kbps Upstream 0 Kbps (0: means unlimited)
MAX. Concurrent Sessions Per IP	0 (Range: 1 - 99999, 0: means unlimited)
MAX. Concurrent Sessions	0 (Range: 1 - 99999, 0: means unlimited)

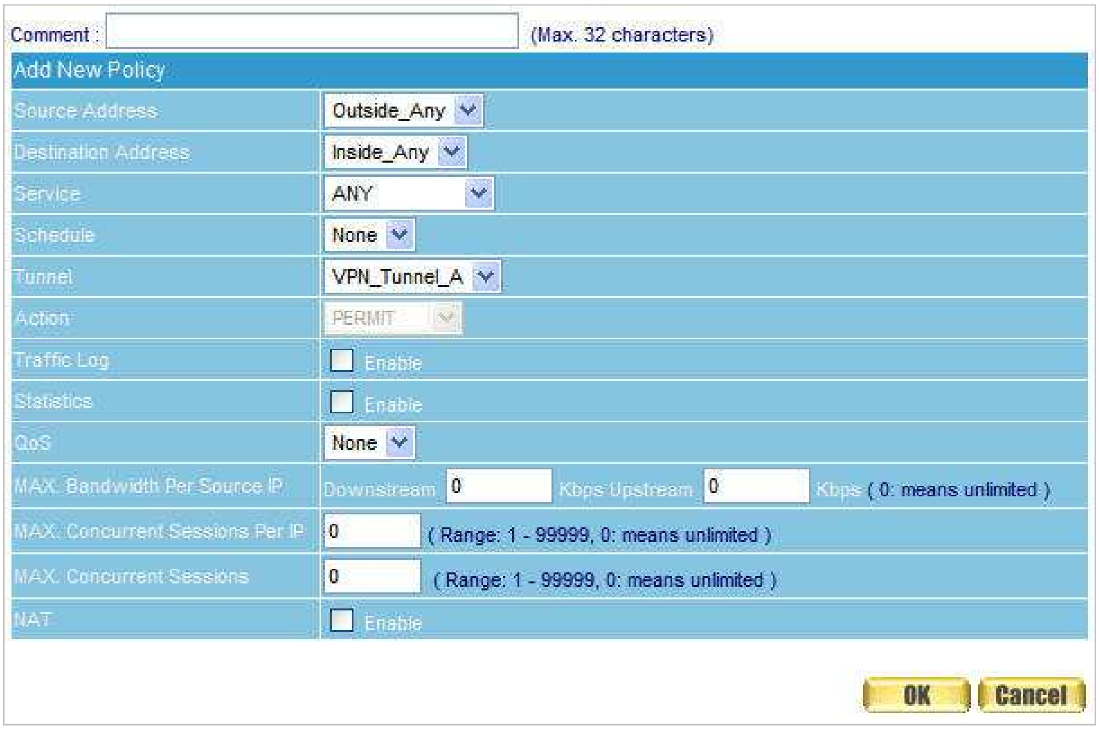


Source	Destination	Service	Action	Option	Configure	Move
Inside_Any	Outside_Any	ANY	VPN		Modify Remove Pause	To 1

How to create the IPSec VPN between 2 x RS-1200?

Step11: Enter the following setting in **Incoming Policy:**

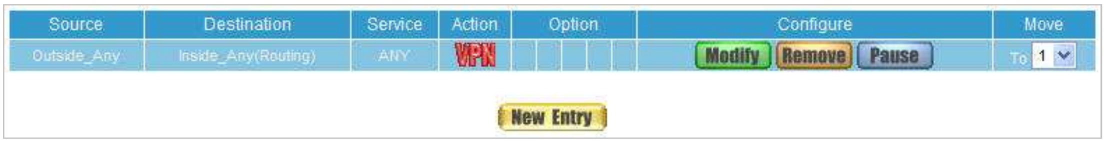
- **Tunnel:** Select VPN_Tunnel_A.
- Click **OK**.



Comment : (Max. 32 characters)

Add New Policy

Source Address	Outside_Any
Destination Address	Inside_Any
Service	ANY
Schedule	None
Tunnel	VPN_Tunnel_A
Action	PERMIT
Traffic Log	□ Enable
Statistics	□ Enable
QoS	None
MAX. Bandwidth Per Source IP	Downstream 0 Kbps Upstream 0 Kbps (0: means unlimited)
MAX. Concurrent Sessions Per IP	0 (Range: 1 - 99999, 0: means unlimited)
MAX. Concurrent Sessions	0 (Range: 1 - 99999, 0: means unlimited)
NAT	□ Enable

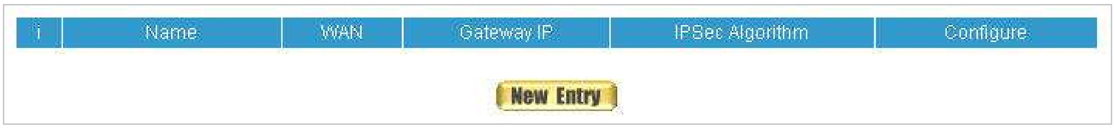


Source	Destination	Service	Action	Option	Configure	Move
Outside_Any	Inside_Any(Routing)	ANY	VPN		Modify Remove Pause	To 1

How to create the IPSec VPN between 2 x RS-1200?

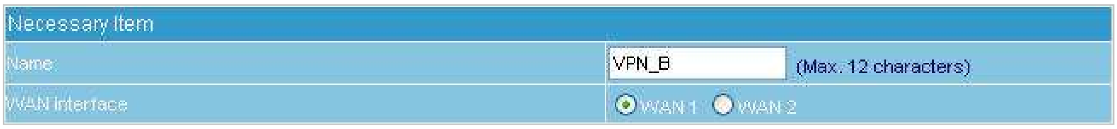
The Default Gateway of Company B is the LAN IP of the RS-1200 192.168.20.1. Follow the steps below:

Step12: Enter the default IP of Gateway of Company B's RS-1200, 192.168.20.1 and select **IPSec Autokey** in **VPN**. Click **New Entry**.



i	Name	WAN	Gateway IP	IPSec Algorithm	Configure

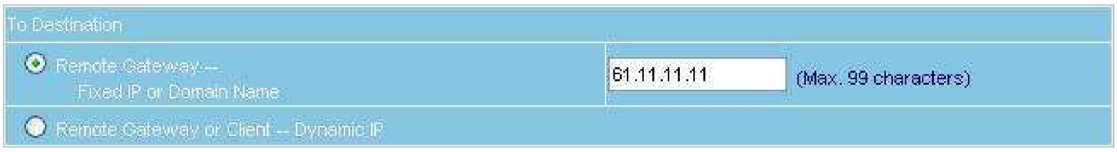
Step13: In the list of **IPSec Autokey**, fill in Name with **VPN_B**.



Necessary Item

Name	VPN_B	(Max. 12 characters)
WAN Interface	● WAN 1 ○ WAN 2	

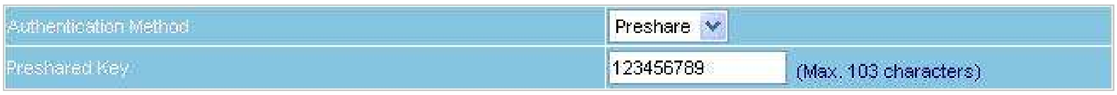
Step14: Select **Remote Gateway-Fixed IP or Domain Name** In **To**
Step15: **Destination** list and enter the IP Address.



To Destination

● Remote Gateway -- Fixed IP or Domain Name	61.11.11.11	(Max. 99 characters)
○ Remote Gateway or Client -- Dynamic IP		

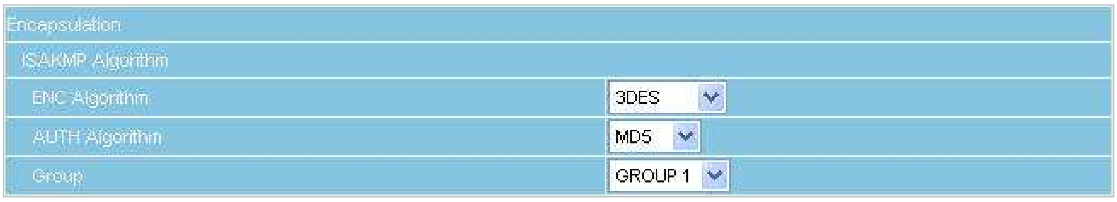
Step16: Select Preshare in **Authentication Method** and enter the **Preshared Key** (max: 100 bits)



Authentication Method	Preshare	
Preshared Key	123456789	(Max. 103 characters)

How to create the IPSec VPN between 2 x RS-1200?

Step17: Select **ISAKMP Algorithm** in **Encapsulation** list. Choose the Algorithm when setup connection. Please select ENC Algorithm (**3DES/DES/AES**), AUTH Algorithm (**MD5/SHA1**), and Group (**GROUP1, 2, 5**). Both sides have to choose the same group. Here we select 3DES for ENC Algorithm, MD5 for AUTH Algorithm, and GROUP1 for group.



Encapsulation

ISAKMP Algorithm

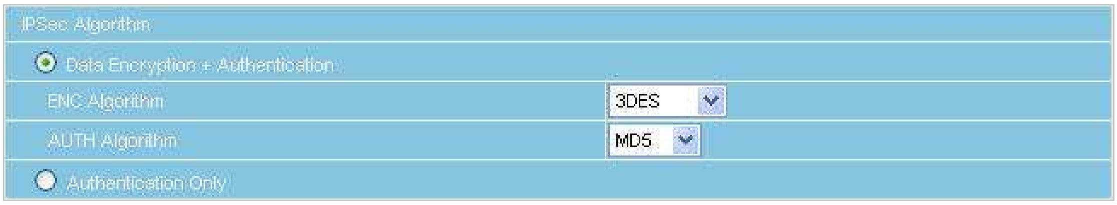
ENC Algorithm	3DES
AUTH Algorithm	MD5
Group	GROUP 1

Step18: You can choose Data Encryption + Authentication or Authentication Only to communicate in **IPSec Algorithm** list:

. ENC Algorithm: **3DES/DES/AES/NULL**

. AUTH Algorithm: **MD5/SHA1**

Here we select 3DES for ENC Algorithm and MD5 for AUTH Algorithm to make sure the encapsulation way for data transmission.



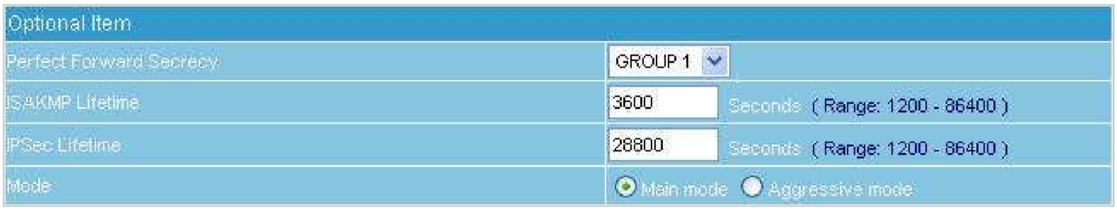
IPSec Algorithm

● Data Encryption + Authentication

ENC Algorithm	3DES
AUTH Algorithm	MD5

○ Authentication Only

Step19: After selecting GROUP1 in **Perfect Forward Secrecy**, enter 3600 seconds in **ISAKMP Lifetime**, enter 28800 seconds in **IPSec Lifetime**, and selecting Main mode in **Mode**.

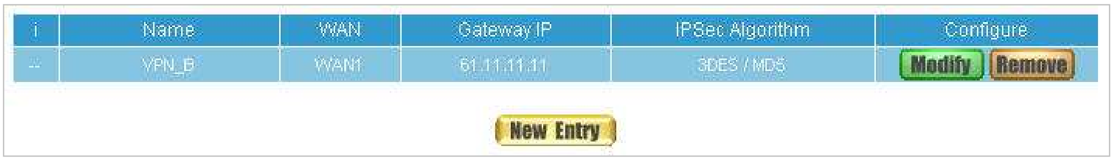


Optional Item

Perfect Forward Secrecy	GROUP 1
ISAKMP Lifetime	3600 Seconds (Range: 1200 - 86400)
IPSec Lifetime	28800 Seconds (Range: 1200 - 86400)
Mode	● Main mode ○ Aggressive mode

Step20: Complete the IPSec Autokey setting.

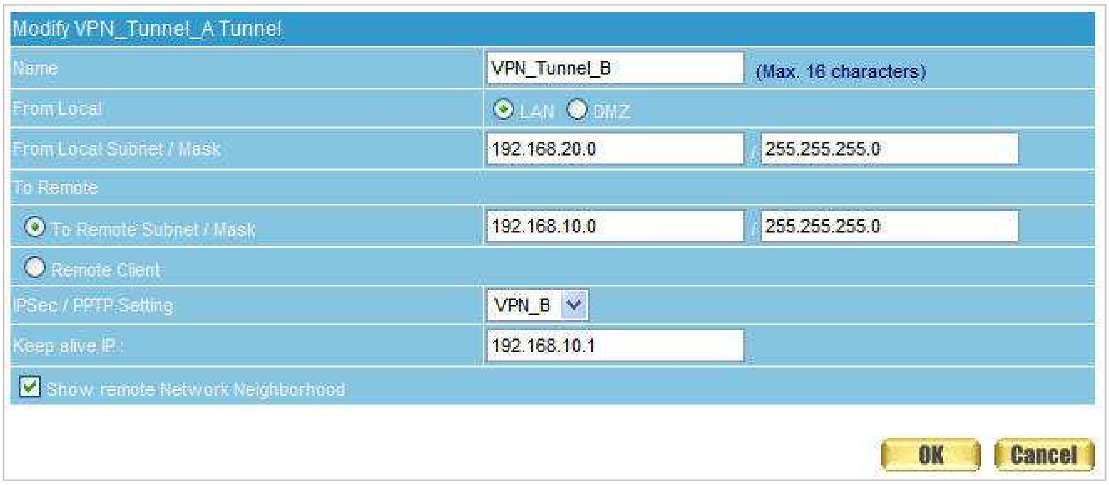
How to create the IPSec VPN between 2 x RS-1200?



i	Name	WAN	Gateway IP	IPSec Algorithm	Configure
--	VPN_B	WAN1	61.11.11.11	3DES / MD5	Modify Remove

Step21: Enter the following setting in **Tunnel** of **VPN** function**:**

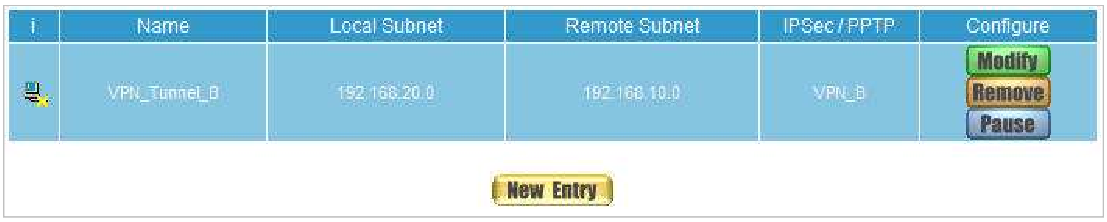
- Enter a specific Tunnel **Name**, for example VPN_Tunnel_B.
- **From Source:** Select LAN
- **From Source Subnet / Mask:** Enter 192.168.20.0 / 255.255.255.0.
- **To Destination:** Select To Destination Subnet / Mask.
- **To Destination Subnet / Mask:** Enter 192.168.10.0 / 255.255.255.0.
- **IPSec / PPTP Setting:** Select VPN_B.
- Enter 192.168.10.1 (the Default Gateway of Company A) as the **Keep alive IP**
- Select **Show remote Network Neighborhood**.
- Click **OK**.



Modify VPN_Tunnel_A Tunnel

Name	VPN_Tunnel_B	(Max. 16 characters)
From Local	● LAN ○ DMZ	
From Local Subnet / Mask	192.168.20.0	/ 255.255.255.0
To Remote		
● To Remote Subnet / Mask	192.168.10.0	/ 255.255.255.0
○ Remote Client		
IPSec / PPTP Setting	VPN_B	
Keep alive IP :	192.168.10.1	
☑ Show remote Network Neighborhood		

How to create the IPSec VPN between 2 x RS-1200?

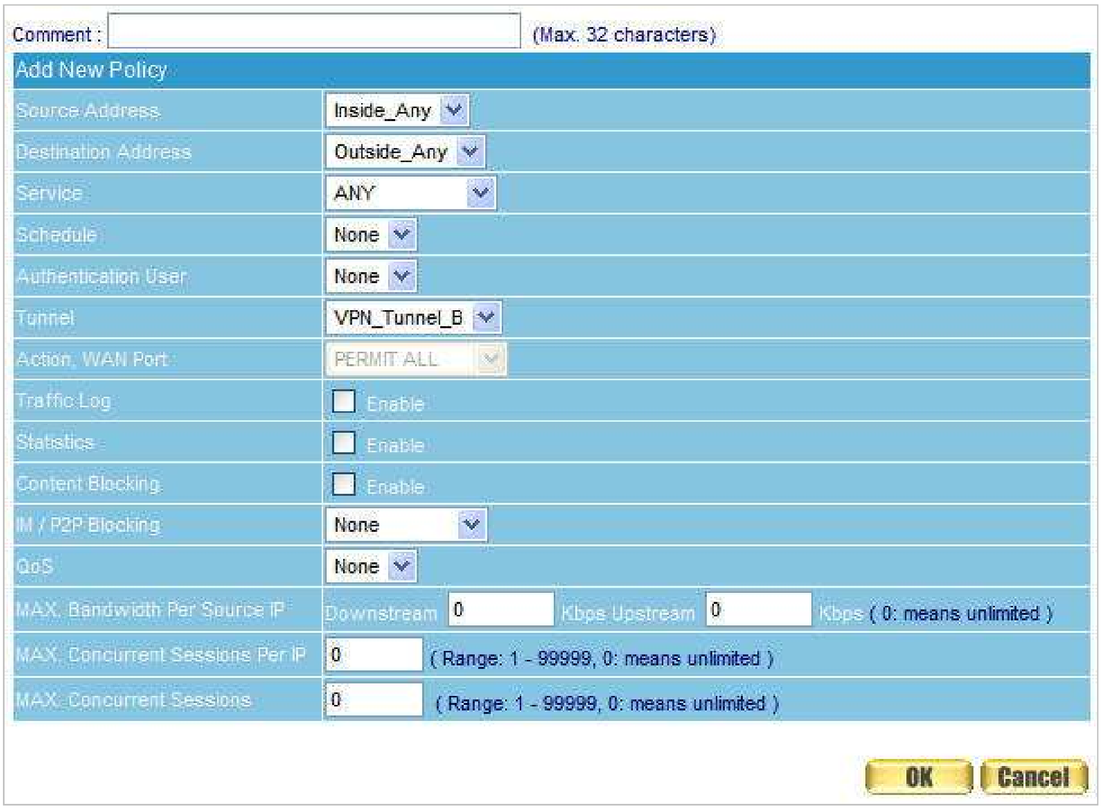


i	Name	Local Subnet	Remote Subnet	IPSec / PPTP	Configure
	VPN_Tunnel_B	192.168.20.0	192.168.10.0	VPN_B	Modify Remove Pause

New Entry

Step22: Enter the following setting in **Outgoing Policy:**

- **Tunnel:** Select VPN_Tunnel_B.
- Click **OK**.

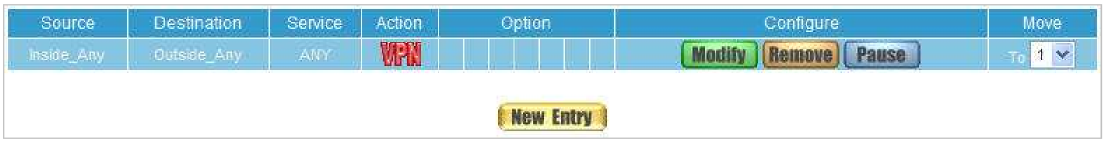


Comment : (Max. 32 characters)

Add New Policy

Source Address	Inside_Any
Destination Address	Outside_Any
Service	ANY
Schedule	None
Authentication User	None
Tunnel	VPN_Tunnel_B
Action, WAN Port	PERMIT ALL
Traffic Log	□ Enable
Statistics	□ Enable
Content Blocking	□ Enable
IM / P2P Blocking	None
QoS	None
MAX. Bandwidth Per Source IP	Downstream 0 Kbps Upstream 0 Kbps (0: means unlimited)
MAX. Concurrent Sessions Per IP	0 (Range: 1 - 99999, 0: means unlimited)
MAX. Concurrent Sessions	0 (Range: 1 - 99999, 0: means unlimited)

OK Cancel



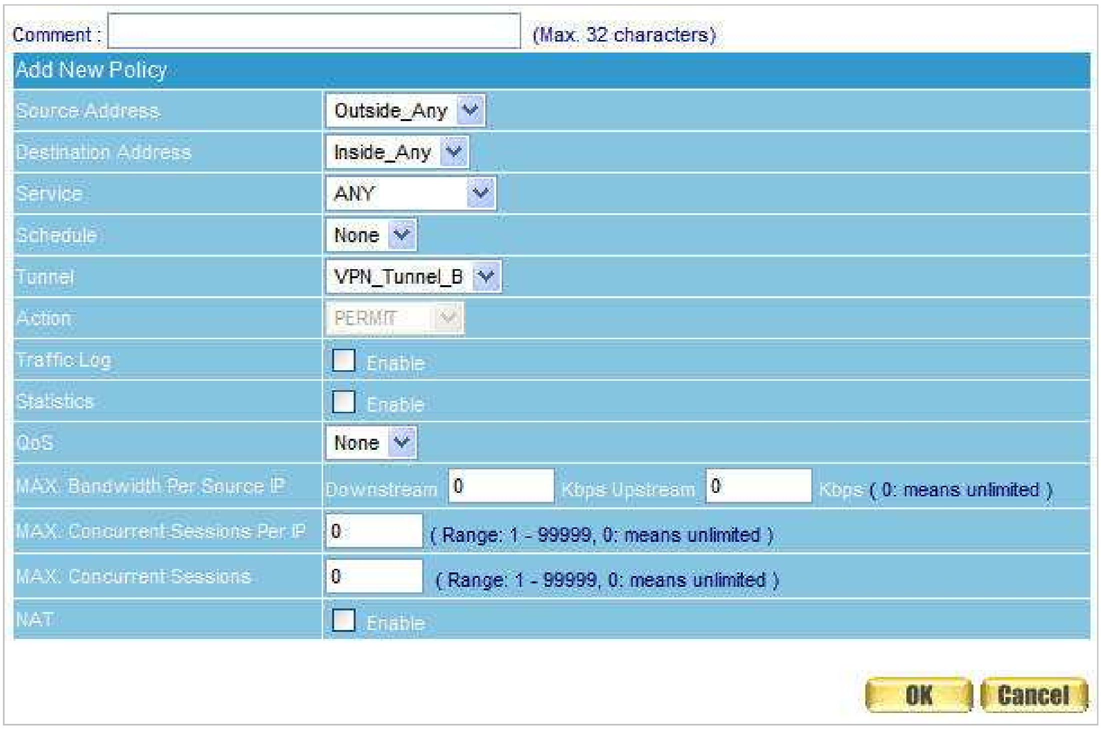
Source	Destination	Service	Action	Option	Configure	Move
Inside_Any	Outside_Any	ANY	VPN		Modify Remove Pause	To 1

New Entry

How to create the IPSec VPN between 2 x RS-1200?

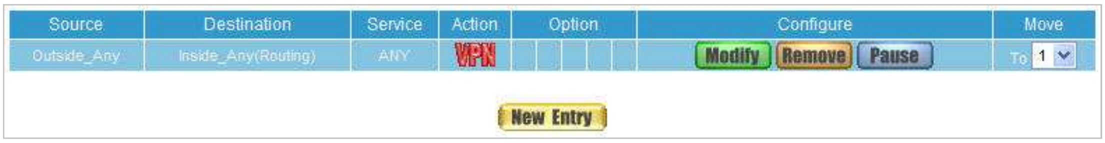
Step23: Enter the following setting in **Incoming Policy:**

- **Tunnel:** Select VPN_Tunnel_B.
- Click **OK**.



Comment : ______ (Max. 32 characters)

Add New Policy	
Source Address	Outside_Any
Destination Address	Inside_Any
Service	ANY
Schedule	None
Tunnel	VPN_Tunnel_B
Action	PERMIT
Traffic Log	□ Enable
Statistics	□ Enable
QoS	None
MAX. Bandwidth Per Source IP	Downstream 0 Kbps Upstream 0 Kbps (0: means unlimited)
MAX. Concurrent Sessions Per IP	0 (Range: 1 - 99999, 0: means unlimited)
MAX. Concurrent Sessions	0 (Range: 1 - 99999, 0: means unlimited)
NAT	□ Enable



Source	Destination	Service	Action	Option	Configure	Move
Outside_Any	Inside_Any(Routing)	ANY	VPN		Modify Remove Pause	To 1

Step24: **Complete IPSec VPN Connection.**