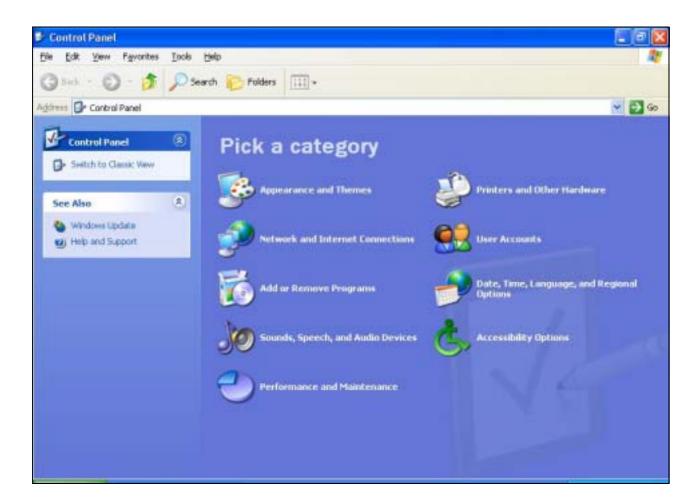
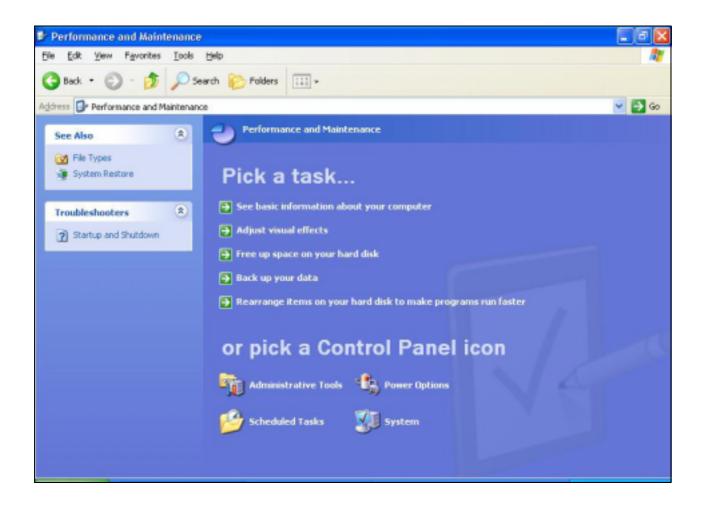
## Appendix B Win 2000/XP IPSEC Setting guide

Example: Win XP/2000 → VPN Router (Configuration on WIN 2000 is similar to XP)

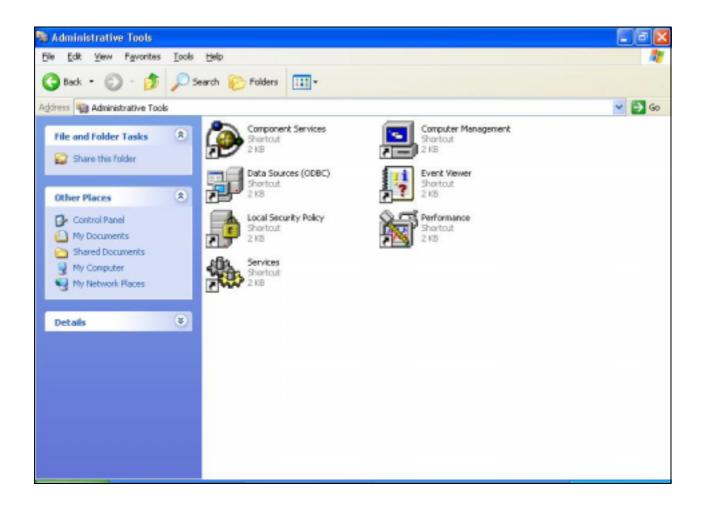
- 1. On Win 2000/XP, click [Start] button, select [Run], type secpol.msc in the field, then click [Run]→ Goto \*\*Local Security Policy Settings\*\* page
- 2. Or in Win XP, Click [Control Pannel]



Double-click [Performance and Maintenance]

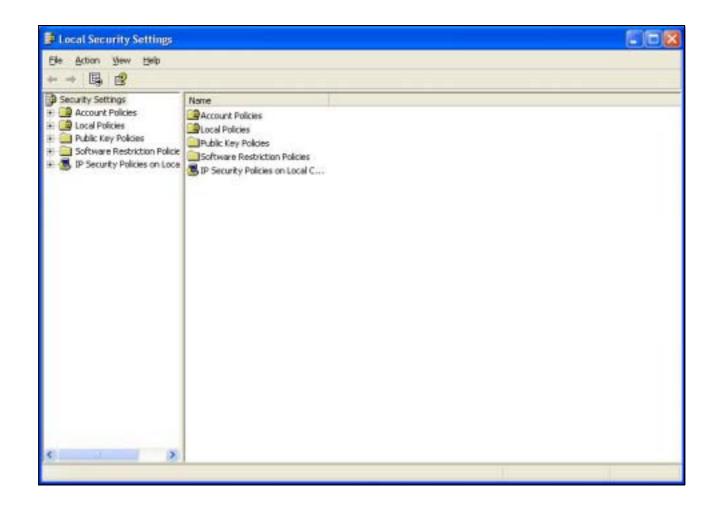


Double-click [Administrative Tools]



## **Local Security Policy Settings**

Double-click [Local Security Policy]

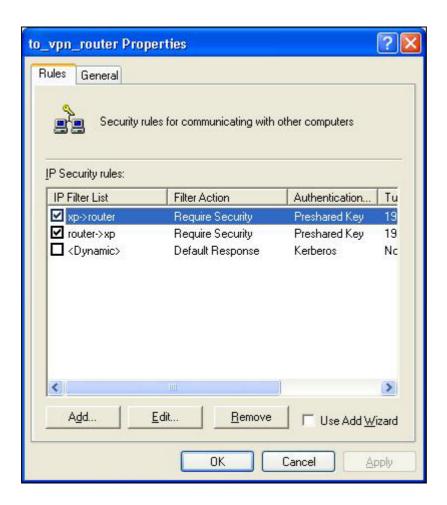


Right-click [IP Security Policies on Local Computer], and click [Create IP Security Policy].

Click the [Next] button, enter your policy's name (Here it is to\_vpn\_router). Then, click [Next].

Dis-select the [Activate the default response rule] check box, and click [Next] button.

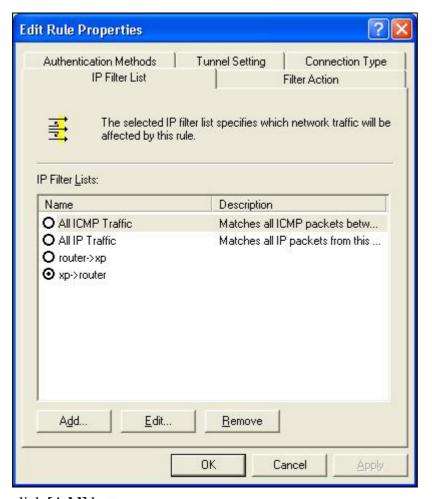
Click [Finish] button, make sure [Edit] check box is checked.



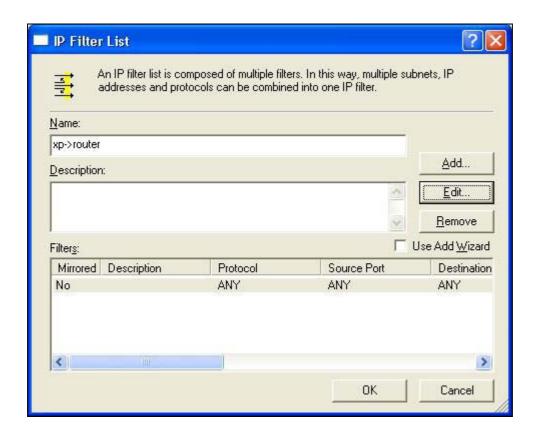
Build 2 Filter Lists: "xp->router" and "router->xp"

### Filter List 1: xp-> router

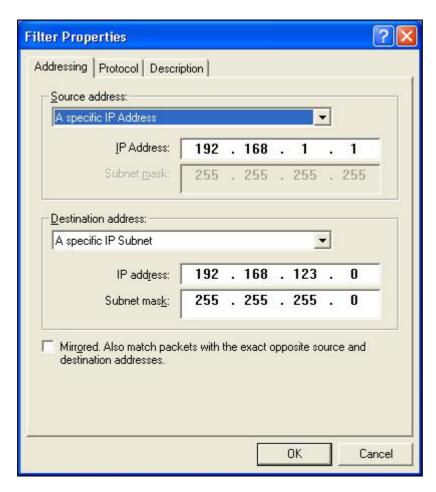
In the "new policy's properties" screen, disselect [Use Add Wizard] check box, and then click [Add] button to create a new rule.



click [Add] button



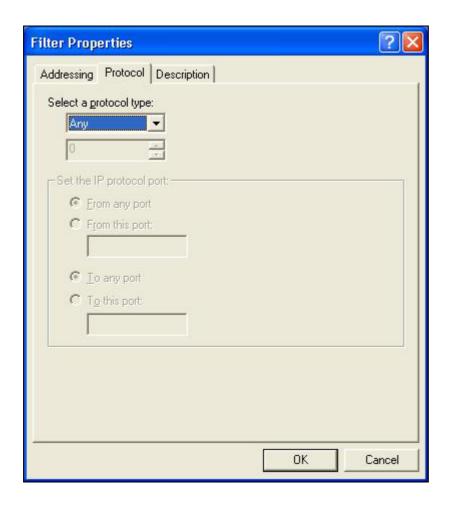
Enter a name, for example: **xp->router** and dis-select [**Use Add Wizard**] check box. Click [**Add**] button.



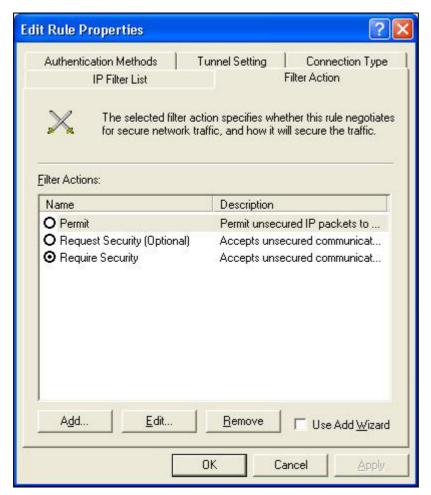
In the Source address field, select [A specific IP Address]. and fill in IP Address: 192.168.1.1

In the Destination address field, select [A specific IP Subnet], fill in IP Address: 192.168.123.0 and Subnet mask: 255.255.255.0.

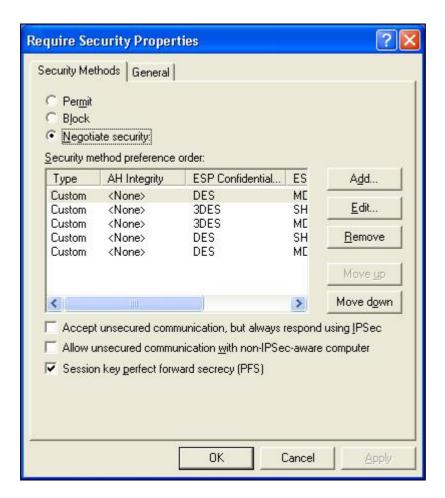
If you want to select a protocol for your filter, click [Protocol] page.



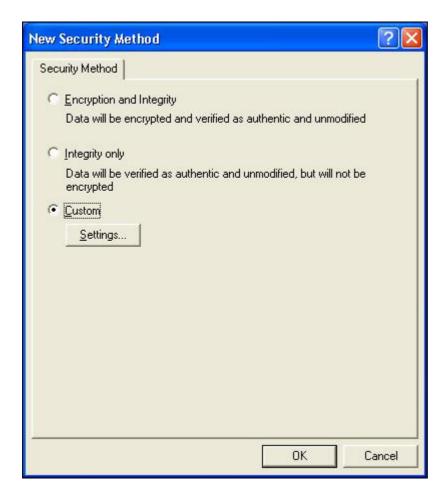
Click [OK] button. Then click [OK] button on the "IP Filter List" page.



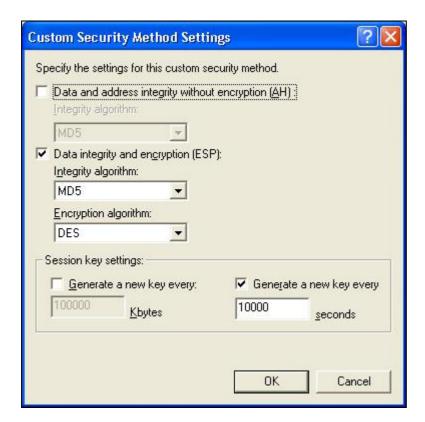
select [Filter Action], select [Require Security], then click [Edit] button.



select [Negotiate security], Select [Session key Perfect Forward Secrecy (PFS)] click [Edit] button.



select [Custom] button



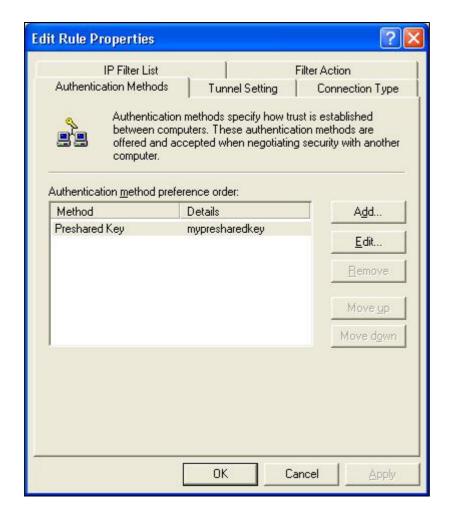
Select [Data integrity and encryption (ESP)]

Configure "Integrity algorithm": [MD5]

Configure "Encryption algorithm": [DES]

Configure "Generate a new key every [10000] seconds"

Click [OK] button



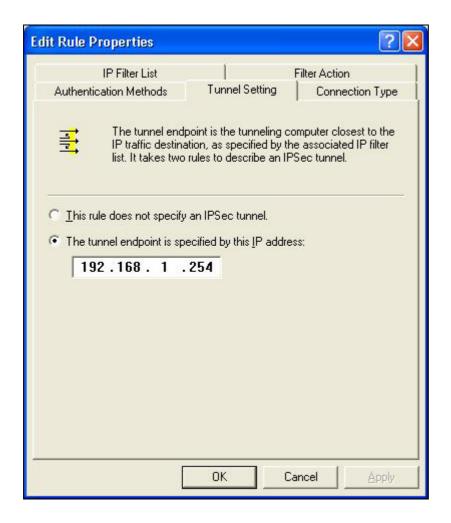
select [Authentication Methods] page, click [Add] button.



select [Use this string to protect the key exchange (preshared key)], and enter your preshared key string, such as mypresharedkey. Click [OK] button.

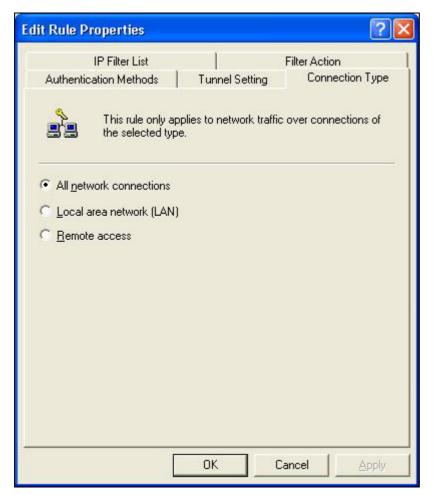
Click [OK] button on [Authentication Methods] page.

Select [Tunnel Setting]



configure [The tunnel endpoint is specified by this IP address]: 192.168.1.254

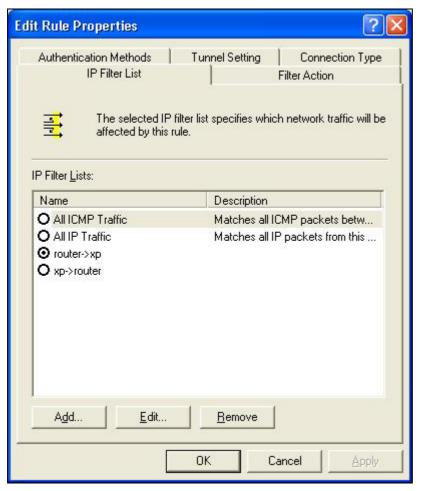
Select [Connection Type]



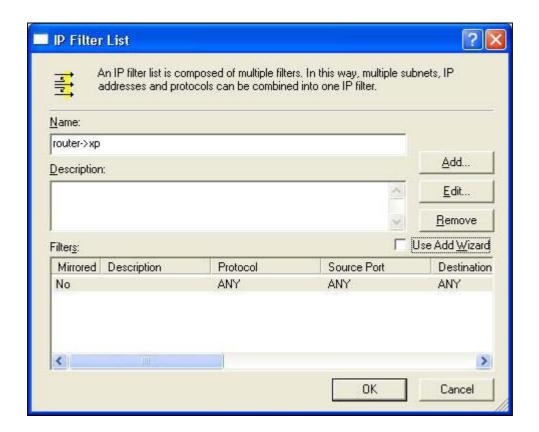
select [All network connections]

### Tunnel 2: router->xp

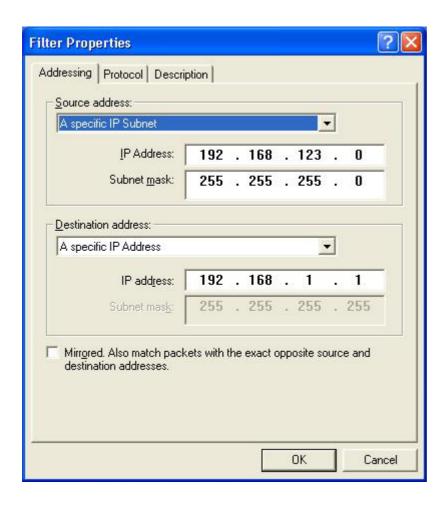
In the "new policy's properties" page, dis-select [Use Add Wizard] check box, and then click [Add] button to create a new rule.



click [Add] button



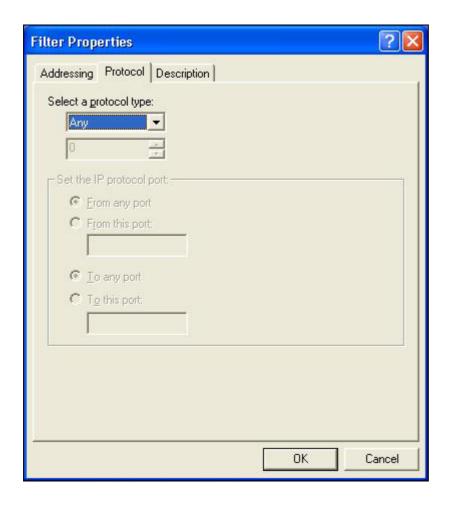
Enter a name, such as **router->xp** and dis-select [Use Add Wizard] check box. Click [Add] button.



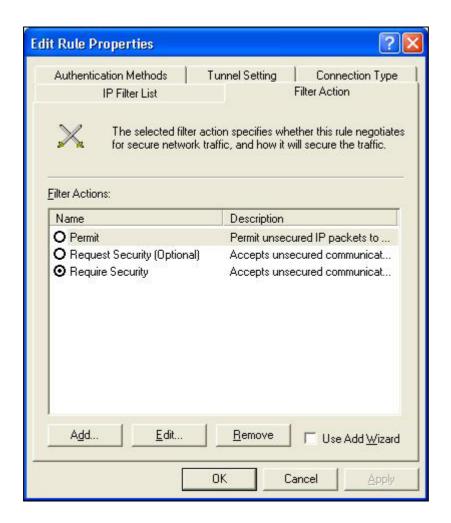
In the Source address field, select [A specific IP Subnet]. fill in IP Address: 192.168.123.0 and Subnet mask: 255.255.255.0.

In the Destination address field, select [A specific IP Address], and fill in IP Address: 192.168.1.1

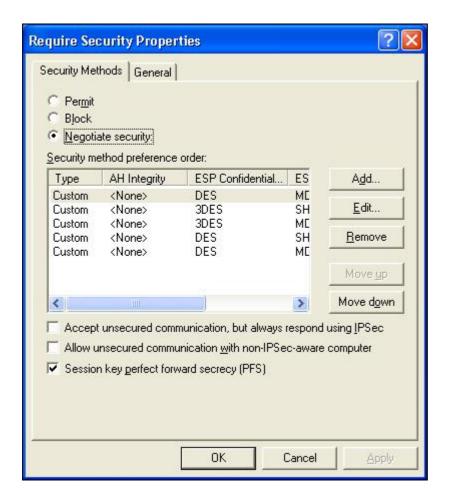
If you want to select a protocol for your filter, click [Protocol] page.



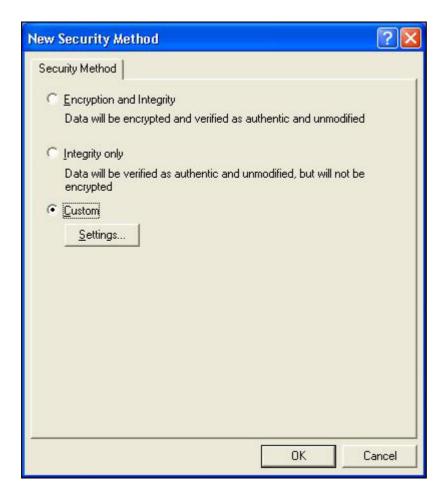
Click [OK] button. Then click [OK] button on [IP Filter List] window.



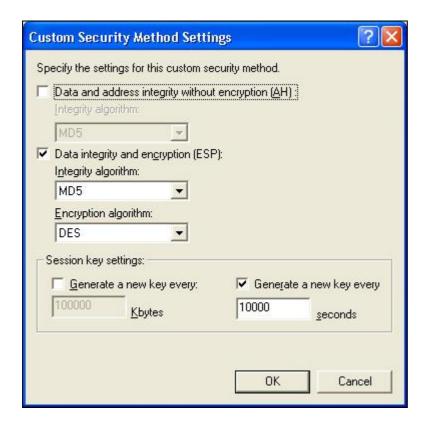
select [Filter Action tab], select [Require Security], then click [Edit] button.



select [Negotiate security], Select [Session key Perfect Forward Secrecy (PFS)] click [Edit] button.



select [Custom] button



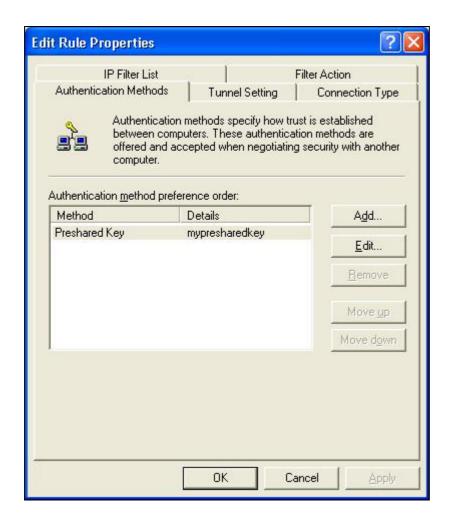
Select [Data integrity and encryption (ESP)]

Configure "Integrity algorithm": [MD5]

Configure "Encryption algorithm": [DES]

Configure "Generate a new key every [10000] seconds"

Click [OK] button



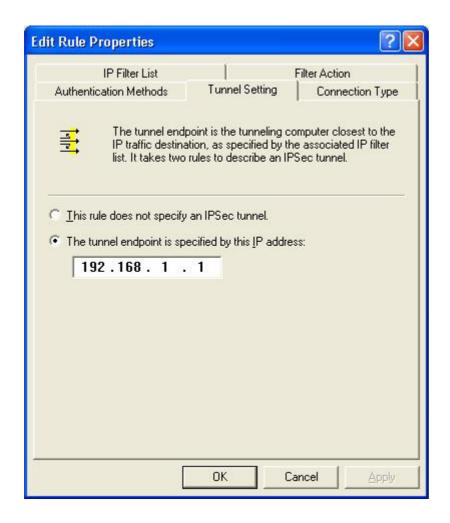
select [Authentication Methods] page, click [Add] button.



select [Use this string to protect the key exchange (preshared key)], and enter the preshared key string, such as mypresharedkey. Click [OK] button.

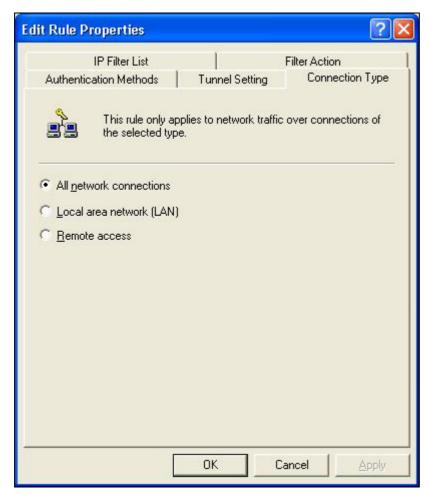
Click [OK] button on [Authentication Methods] page.

Select [Tunnel Setting]



Configure [The tunnel endpoint is specified by this IP address]: 192.168.1.1

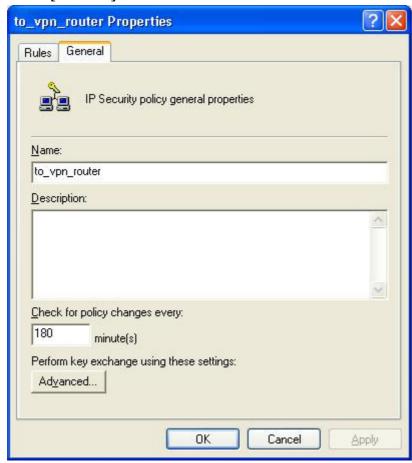
Select [Connection Type]



select [All network connections]

### **Configure IKE properties**

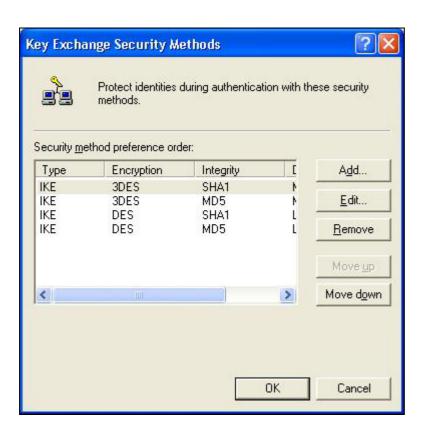
## Select [General]



### Click [Advanced...]



enable "Master key perfect forward security (PFS)" configure "Authenticate and generate a new key after every [10000] seconds" click [Methods...]



click [Add] button



Configure "Integrity algorithm": [SHA1]

Configure "Encryption algorithm": [3DES]

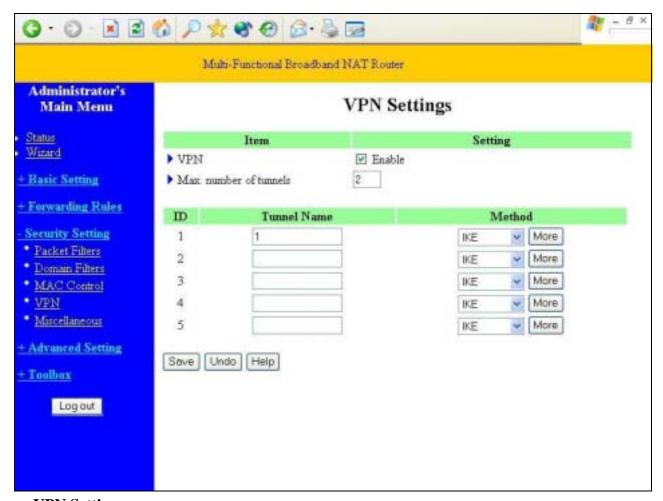
Configure "Diffie-Helman group": [Medium (2)]

### Settings on VPN router

VPN Router: Wan IP address:192.168.1.254

Lan IP address:192.168.123.254

**PC:** 192.168.123.123



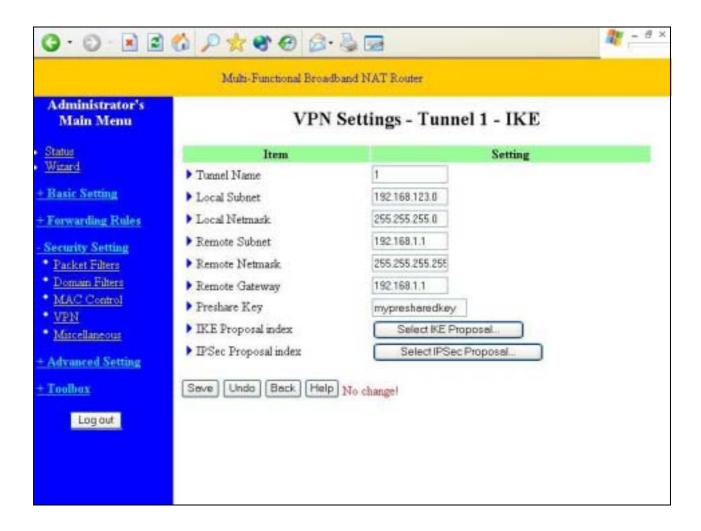
### **VPN Settings:**

VPN: Enable

Max. number of tunnels: 2

ID: 1

Tunnel Name: 1
Method: IKE
Press "More"→



### **VPN Settings - Tunnel 1 – IKE**

Tunnel:1

Local Subnet:192.168.123.0

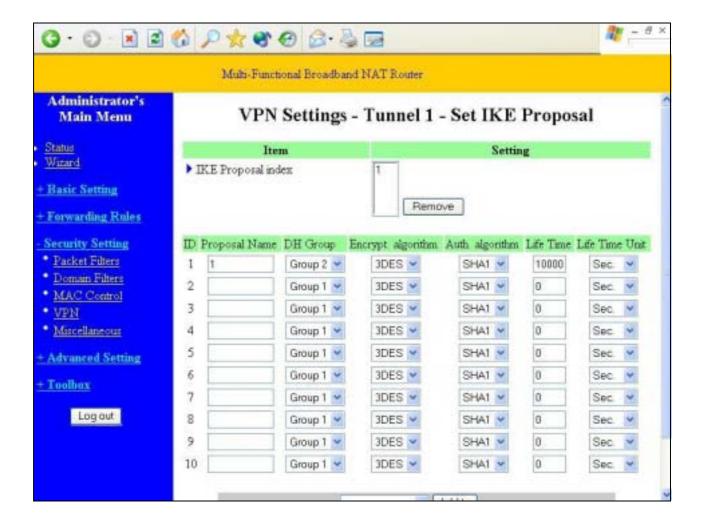
Local Netmask:255.255.255.0

Remote Subnet:192.168.1.1

Remote Netmask:255.255.255.255

Remote Gateway:192.168.1.1

Preshare Key: mypresharedkey



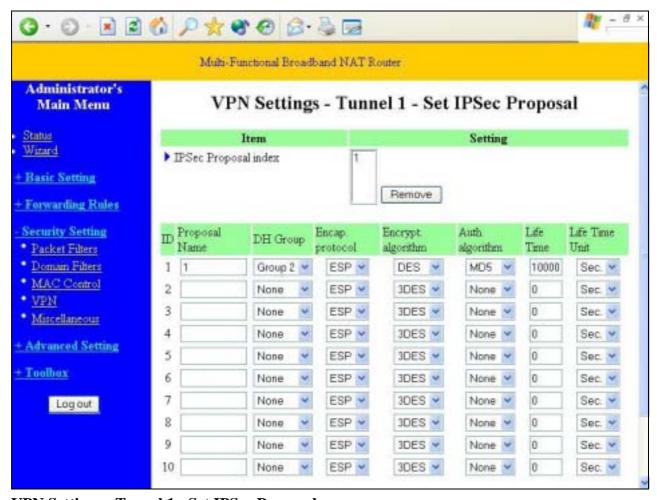
### **VPN Settings - Tunnel 1 - Set IKE Proposal**

ID: 1

Proposal Name: 1 DH Group: Group2

Encrypt. Algorithm: 3DES Auth. Algorithm: SHA1

Life Time: 10000 Life Time Unit: Sec.



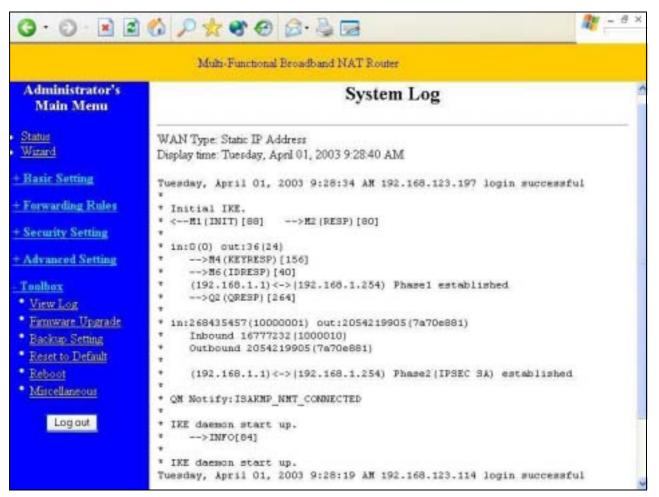
**VPN Settings - Tunnel 1 - Set IPSec Proposal** 

ID: 1

Proposal Name: proposal1

DH Group: Group2 Encap. Protocol: ESP Encrypt. Algorithm: DES Auth. Algorithm: MD5

Life Time: 10000 Life Time Unit: Sec.



User can view VPN connection process in "**System Log**" page, and correct their settings. Phase1 is related to **IKE** settings, Phase2 is related to **IPSEC** settings.

# **Appendix C** Console Mode (optional)

When you forget the system password or the IP address of this product, you need enter console mode to reset them.

Before invoking the console program, be sure to find a null modem cable and use it to connect from this product's COM port to your computer's COM port. Then, execute a terminal program, such as the *Hyper Terminal* of MS Windows 95. The connection parameters should be set to **19200 8-N-1**. And, reboot this product. When the M1 indicator starts flashing regularly, you can press the "*Enter*" key of the keyboard several times, there should be some messages and console prompt ">" appeared in the terminal.

In the console mode, you may reset the IP address and the system password of this product. Please remember to execute the **SR** command to save the changes you have made. For example,

```
IP 192.168.123.254
PW admin
SR
```