

# **Configuration Aid To Ingate Firewall/SIParator® - How to Configure PPTP Connections to Ingate Firewall/SIParator®**

**Lisa Hallingström**  
Ingate Systems AB



# Table of Contents

<b>How to configure Ingate Firewall/SIParator® for PPTP connections .....</b>	<b>3</b>
Networks and Computers.....	3
PPTP .....	3
Rules .....	4
Save/Load Configuration .....	5
Configuring the Client .....	5

# How to configure Ingate Firewall/SIParator® for PPTP connections

When a VPN connection using PPTP is established, the firewall/SIParator will assign a local IP address to the PPTP client, which then can look like it is located on the local network.

Follow these steps to configure the firewall/SIParator for PPTP connections.

## Networks and Computers

Go to the **Networks and Computers** page under **Network** and create a new network. The new network should contain IP addresses from the local network which the PPTP clients can use. Select "-" as the Interface for this network.

Also, make sure that there are networks for the computers which the PPTP clients should be allowed to access. These networks are used when rules are set up for the PPTP traffic.

Edit Row	Name	Subgroup	Lower limit		Upper limit (for IP ranges)		Interface/VLAN	Delete Row
			DNS name or IP address	IP address	DNS name or IP address	IP address		
<input type="checkbox"/>	+ All	-	0.0.0.0	0.0.0.0	255.255.255.255	255.255.255.255	-	<input type="checkbox"/>
<input type="checkbox"/>	+ Internet	-	0.0.0.0	0.0.0.0	255.255.255.255	255.255.255.255	External (eth1 untagged)	<input type="checkbox"/>
<input type="checkbox"/>	+ Office	-	10.7.0.0	10.7.0.0	10.7.0.255	10.7.0.255	Internal (eth0 untagged)	<input type="checkbox"/>
<input type="checkbox"/>	+ PPTP clients	-	10.7.0.220	10.7.0.220	10.7.0.240	10.7.0.240	-	<input type="checkbox"/>

## PPTP

Go to the **PPTP** page under **Virtual Private Networks** to do settings for the PPTP server in the firewall/SIParator.

First, select that the PPTP server should be On and select an IP address for it. This IP address is one of the firewall/SIParator's own IP addresses and is the one which PPTP clients should access, which means that it must be available from the Internet. It is recommended that you select one of the addresses on the firewall/SIParator outside.

IPsec Peers	IPsec Tunnels	IPsec Settings	X.509 Certificates	Authentication Server	IPsec Status	<b>PPTP</b>	PPTP Status
<b>General</b> (Help)							
PPTP server: <input checked="" type="radio"/> On <input type="radio"/> Off							

*Configuration Aid To Ingate Firewall/SIParator® - How to Configure PPTP Connections to Ingate Firewall/SIParator®*

Then, select a firewall/SIParator IP address which will act as a local peer for the PPTP clients. You must select an IP address on the same firewall/SIParator interface and logical network as the IP addresses in the PPTP client network.

Select the network created above as the Client IP addresses. When a PPTP client connects, it will be assigned one of these IP addresses on the local network.

**Client Network** (Help)  
PPTP local IP address:  
PPTP (10.7.0.1)  
Client IP addresses:  
PPTP clients

You can enter local DNS and WINS servers for the PPTP clients to use. This will enable the clients to use local network services.

**DNS Servers** (Help)      **WINS Servers** (Help)  
Primary DNS:      Primary WINS:  
DNS name or IP address      IP address      DNS name or IP address      IP address  
10.7.0.7      10.7.0.7      10.7.0.9      10.7.0.9  
Secondary DNS:      Secondary WINS:  
DNS name or IP address      IP address      DNS name or IP address      IP address  
           10.7.0.12      10.7.0.12

Enter the users allowed to connect using PPTP, and their passwords. The user must enter this username and password in her PPTP client.

**PPTP Users** (Help)

Edit row	User	Password	Enabled	Delete row
<input checked="" type="checkbox"/>	bob	Change Password	On	<input type="checkbox"/>
<input type="checkbox"/>	cindy		On	<input type="checkbox"/>
<input type="checkbox"/>	fred		On	<input type="checkbox"/>
<input type="checkbox"/>	lucy		On	<input type="checkbox"/>
<input type="checkbox"/>	minnie		On	<input type="checkbox"/>
<input type="checkbox"/>	steve		On	<input type="checkbox"/>

Add new rows  rows.

## Rules

Go to the **Rules** page under **Rules and Relays** and create rules for the traffic between the PPTP clients and the local network. The PPTP clients are represented by the network of local PPTP IP addresses.

If the PPTP clients should initiate all traffic (i.e., they are not supposed to act as servers), you don't need a reply rule for TCP.

Edit Row	Rule no.	Rule State	Client	From IPsec peer	Server	To IPsec peer	Direction	Service	Action	Time class	Log class	Comment	Delete Row
<input type="checkbox"/>	1	On	PPTP clients	-	Office	-	Indeterminate interface -> Internal	tcp	Allow	24/7	Local		<input type="checkbox"/>
<input type="checkbox"/>	2	On	Office	-	PPTP clients	-	Internal -> Indeterminate interface	udp	Allow	24/7	Local		<input type="checkbox"/>
<input type="checkbox"/>	3	On	PPTP clients	-	Office	-	Indeterminate interface -> Internal	udp	Allow	24/7	Local		<input type="checkbox"/>

## Save/Load Configuration

Finally, go to the **Save/Load Configuration** page under **Administration** and apply the new settings by pressing **Apply configuration**.

**Save/Load Configuration**    Show Configuration    User Administration

**Test Run and Apply Conf** (Help)

Duration of limited test mode:

seconds

When the configuration has been applied, you should save a backup to file. Press **Save config to CLI file** to save the configuration.

**Save/Load CLI Command File** (Help)

The permanent configuration might be affected by loading a CLI file.

       Local file:    

## Configuring the Client

When the firewall/SIParator has been configured, you also need to configure the PPTP client. This is, of course, done differently with different clients. A Windows XP computer has a built-in PPTP client which is configured under Control Panel -> Network connections.