

## WatchGuard PINsafe Integration

### Table of Contents

|  |    |
|--|----|
| WatchGuard PINsafe Integration.....  | 1  |
| 1. Introduction.....   | 2  |
| 2. Overview.....   | 2  |
| 2.1. Prerequisites .....   | 2  |
| 2.2. Baseline.....   | 2  |
| 2.3. Architecture .....  | 2  |
| 3. Installation.....   | 2  |
| 3.1. Configure The PINsafe Server.....   | 2  |
| 3.1.1. Optional: Two Stage Authentication .....  | 3  |
| 3.1.2. Optional: Challenge and Response Using SMS .....  | 3  |
| 3.2. Configure The WatchGuard Server .....   | 5  |
| 3.2.1. Configure The Authentication Server Settings .....  | 5  |
| 3.2.2. Configuration for Mobile SSL VPN.....   | 6  |
| 3.2.3. Connecting using the Mobile SSL VPN .....   | 8  |
| 3.2.4. Optional: SSL VPN Authentication using Two Stage or Two Stage and Challenge<br>and Response ..... | 9  |
| 3.2.5. Configuration of VPN Gateway for VPN IPSEC Client.....  | 10 |
| 3.2.6. Configuration of VPN IPSEC Client.....  | 15 |
| 3.2.7. Connecting using the VPN IPSEC Client.....  | 18 |
| 3.2.8. Optional: IPSec Authentication using Two Stage or Two Stage and Challenge and<br>Response .....   | 19 |
| 4. Verifying the Installation .....  | 20 |
| 5. Troubleshooting .....   | 20 |
| 6. Known Issues and Limitations.....   | 21 |
| 7. Additional Information .....  | 21 |

# 1. Introduction

This document describes the integration of PINsafe with the WatchGuard VPN solutions

## 2. Overview

### 2.1. Prerequisites

PINsafe 3.x  
Watchguard Firewall with VPN

### 2.2. Baseline

PINsafe 3.7  
Watchguard Firebox X750e Core

### 2.3. Architecture

The WatchGuard Firebox accepts VPN connections by SSL or VPN client and uses RADIUS to authenticate users against the PINsafe server by checking the users username and One Time Code.

## 3. Installation

### 3.1. Configure The PINsafe Server

Configure a RADIUS NAS entry

1. Ensure the RADIUS server is running on PINsafe, on the PINsafe Management Console select RADIUS/Server, Server Enabled should be Yes
2. On the PINsafe Management Console select RADIUS NAS
3. Enter a name for the NAS
4. Enter the WatchGuard internal IP address
5. Enter the shared secret
6. Optionally if RADIUS groups are to be used then set the Vendor (Groups): to WatchGuard. When a RADIUS request is made this will return Filter ID 11, with the Group Name that the user is a member of. This can be used for assigning policies to users based on group membership.
7. Click on Apply to save changes

|                      |  |                                       |
|----------------------|--|---------------------------------------|
| NAS: Identifier:     | <input type="text" value="Watch Guard VPN"/> |                                       |
| Hostname/IP:         | <input type="text" value="10.0.1.1"/>        |                                       |
| Secret:              | <input type="password" value="....."/>       |                                       |
| EAP protocol:        | <input type="text" value="None"/>            |                                       |
| Group:               | <input type="text" value="--ANY--"/>         |                                       |
| Authentication Mode: | <input type="text" value="All"/>             |                                       |
| Change PIN warning:  | <input type="text" value="No"/>              |                                       |
| Vendor (Groups):     | <input type="text" value="Watchguard"/>      |                                       |
| Two Stage Auth:      | <input type="text" value="No"/>              | <input type="button" value="Delete"/> |

### 3.1.1. Optional: Two Stage Authentication

This is where a user enters a password, and then is taken to a second page for a One Time Code. The user must have a password for authentication.

To Allow Two Stage Authentication, on the PINsafe Administration Console select Radius/NAS, ensure Two Stage Authentication is set to Yes.

|                      |  |                                       |
|----------------------|--|---------------------------------------|
| NAS: Identifier:     | <input type="text" value="Watch Guard VPN"/> |                                       |
| Hostname/IP:         | <input type="text" value="10.0.1.1"/>        |                                       |
| Secret:              | <input type="password" value="....."/>       |                                       |
| EAP protocol:        | <input type="text" value="None"/>            |                                       |
| Group:               | <input type="text" value="--ANY--"/>         |                                       |
| Authentication Mode: | <input type="text" value="All"/>             |                                       |
| Change PIN warning:  | <input type="text" value="No"/>              |                                       |
| Vendor (Groups):     | <input type="text" value="Watchguard"/>      |                                       |
| Two Stage Auth:      | <input type="text" value="Yes"/>             | <input type="button" value="Delete"/> |

### 3.1.2. Optional: Challenge and Response Using SMS

This is where a user enters a password, and if this is correct the user will then be sent automatically a One Time Code for authentication by their transport.

To Allow Challenge and Response Authentication using SMS, first configure Two Stage Authentication. On the PINsafe Administration Console select Server/Dual Channel, and ensure On-Demand Authentication is set to Yes.

## Server>Dual Channel

Please select whether dual channel security string messages are delivered preemptively or on demand at the point of authentication.

On-demand authentication:

Allow message request by username:

Confirmation image on message request:

On-demand delivery:

Multiple authentications per String:

Then select on the PINsafe Administration Console RADIUS/Server, ensure the Use Challenge/Response is set to Yes.

## RADIUS>Server

Please enter the details for the RADIUS server.

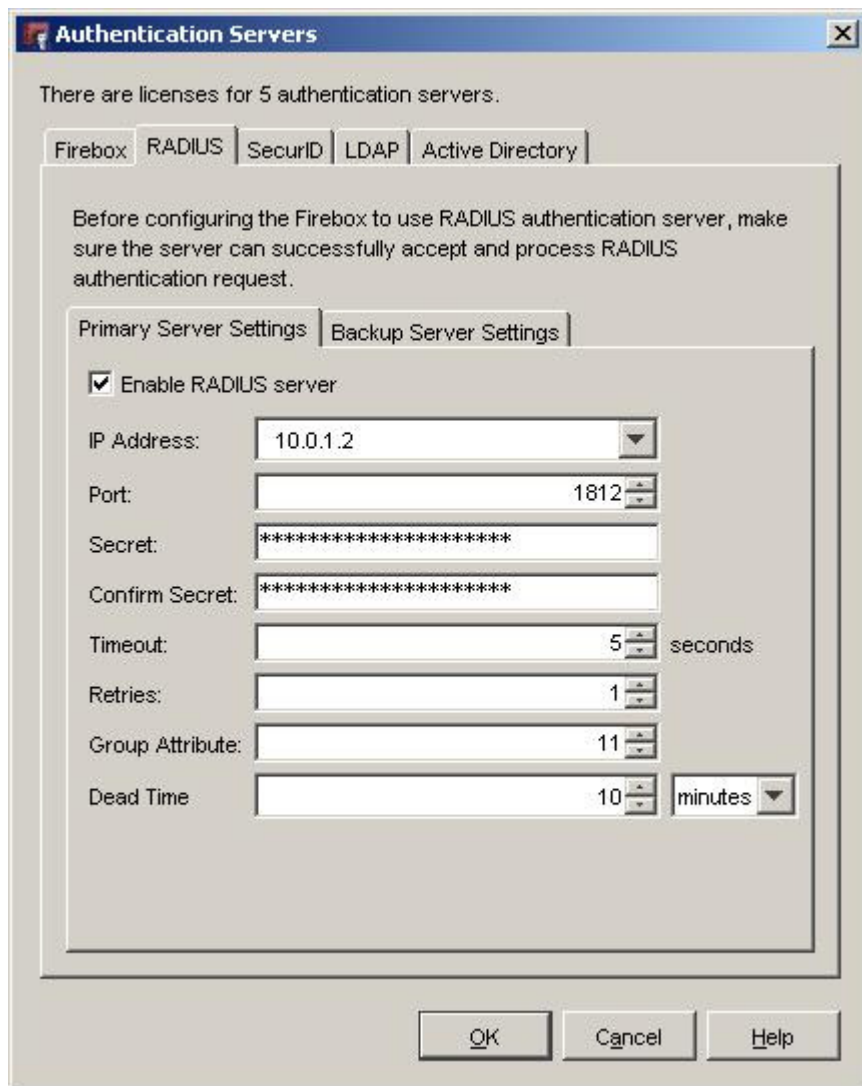
|   |                                   |
|---|-----------------------------------|
| Server enabled:   | <input type="text" value="Yes"/>  |
| IP address:   | <input type="text"/>              |
| Authentication port:  | <input type="text" value="1812"/> |
| Accounting port:  | <input type="text" value="1813"/> |
| Maximum no. sessions:   | <input type="text" value="50"/>   |
| Permit empty attributes:  | <input type="text" value="No"/>   |
| Additional RADIUS logging:  | <input type="text" value="Both"/> |
| Enable debug:   | <input type="text" value="Yes"/>  |
| Radius Groups:  | <input type="text" value="Yes"/>  |
| Radius Group Keyword:   | <input type="text"/>              |
| Session TTL:  | <input type="text" value="60"/>   |
| Use Challenge/Response:   | <input type="text" value="Yes"/>  |
| <input type="button" value="Apply"/> <input type="button" value="Reset"/> |                                   |

### 3.2. Configure The WatchGuard Server

#### 3.2.1. Configure The Authentication Server Settings

On the WatchGuard Policy Manager create an authentication server

1. Select Setup/Authentication/Authentication Servers
2. From the Tabs select RADIUS (or also SecureID has been recommended as it has been designed for One Time Codes)
3. Configure the following settings:
  - IP Address of the PINsafe server
  - Port used for RADIUS, usually 1812
  - Shared Secret that has been entered on the PINsafe server
4. When settings have been configured click on OK.

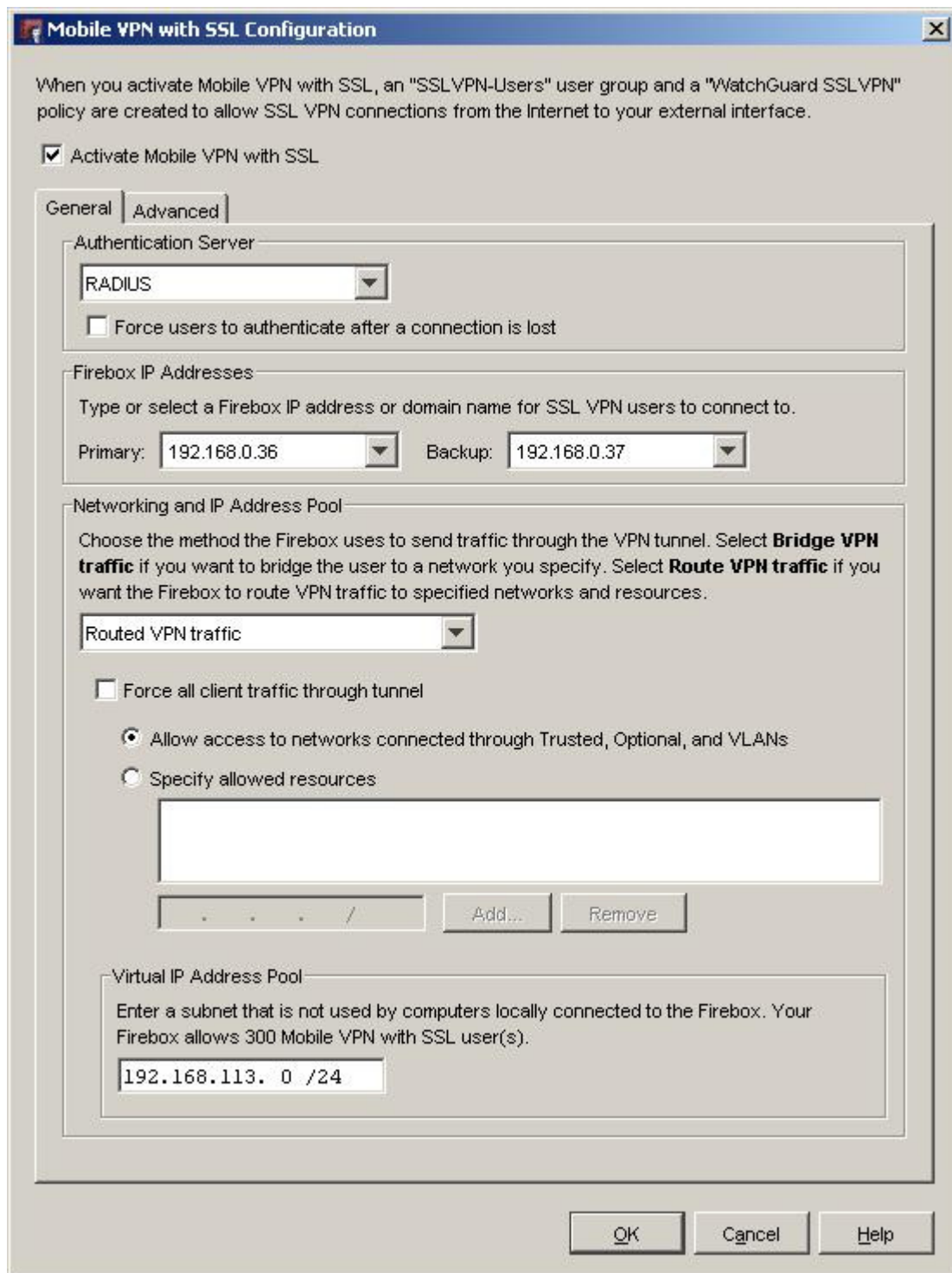


### 3.2.2. Configuration for Mobile SSL VPN

Configure the WatchGuard for Mobile SSL VPN use.

1. Select VPN/Mobile VPN/SSL.
2. In the Mobile VPN with SSL Configuration configure the following settings:
  - Ensure the Activate Mobile VPN with SSL is ticked.
  - Enter the previously configured Authentication Server
  - It is recommended to Force users to authenticate after a connection is lost by selecting the tick box.
  - Enter the IP Address or hostname for users to connect to
  - Configure Networking and IP address Pool as required
3. When completed click OK

Note: When you enable Mobile VPN with SSL, an SSLVPN-Users group is created automatically.



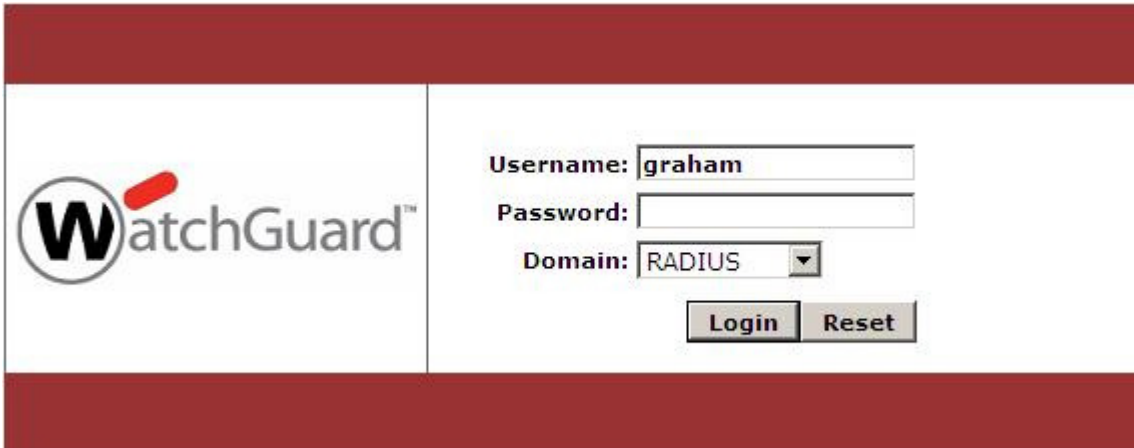
### To Allow Mobile VPN with SSL users to access a trusted network

1. Click the plus (+) icon on the Policy Manager toolbar. You can also select Edit/Add Policies.
2. In the The Add Policies dialog box, click the plus (+) icon on the left side of Packet Filters.
3. A list of templates for packet filters appears, select Any and click Add.
4. In the New Policy Properties dialog box, enter a name for the policy in the Name text box. Choose a name that will help you identify this policy in your configuration.
5. On the Policy tab, in the From area, select Any-Trusted and click Remove.

6. In the From area, click Add.
7. The Add Address dialog box opens and The Add Member dialog box appears. Click Add User. For the two Type drop-down lists, select SSL VPN for the first and Group for the second.
8. Select SSLVPN-Users and click Select.
9. Click OK to close the Add Address dialog box.
10. In the From area, select Any-External and click Remove.
11. In the To area, click Add.
12. In the Add Address dialog box select the Available Members list, and select Any-Trusted and click Add.
13. Click OK twice and click Close.
14. Save the changes to the WatchGuard device.

### 3.2.3. Connecting using the Mobile SSL VPN

Open a web browser and connect to the WatchGuard SSL VPN portal



The screenshot shows the WatchGuard SSL VPN portal login interface. On the left is the WatchGuard logo. On the right is a login form with the following fields and controls:

- Username:
- Password:
- Domain:  (dropdown menu)
- Buttons:  and

Enter the username, then enter the PINsafe One Time Code, possible sources of the One Time Code are:

- SMS Text Message
- PINsafe Taskbar utility or Single Channel image
- Mobile Phone Applet





### 3.2.4. Optional: SSL VPN Authentication using Two Stage or Two Stage and Challenge and Response

Enter Username and Password

A screenshot of the WatchGuard login form. On the left is the WatchGuard logo. On the right, there are three input fields: "Username:" with the value "graham", "Password:" which is empty, and "Domain:" with a dropdown menu showing "RADIUS". Below these fields are "Login" and "Reset" buttons.

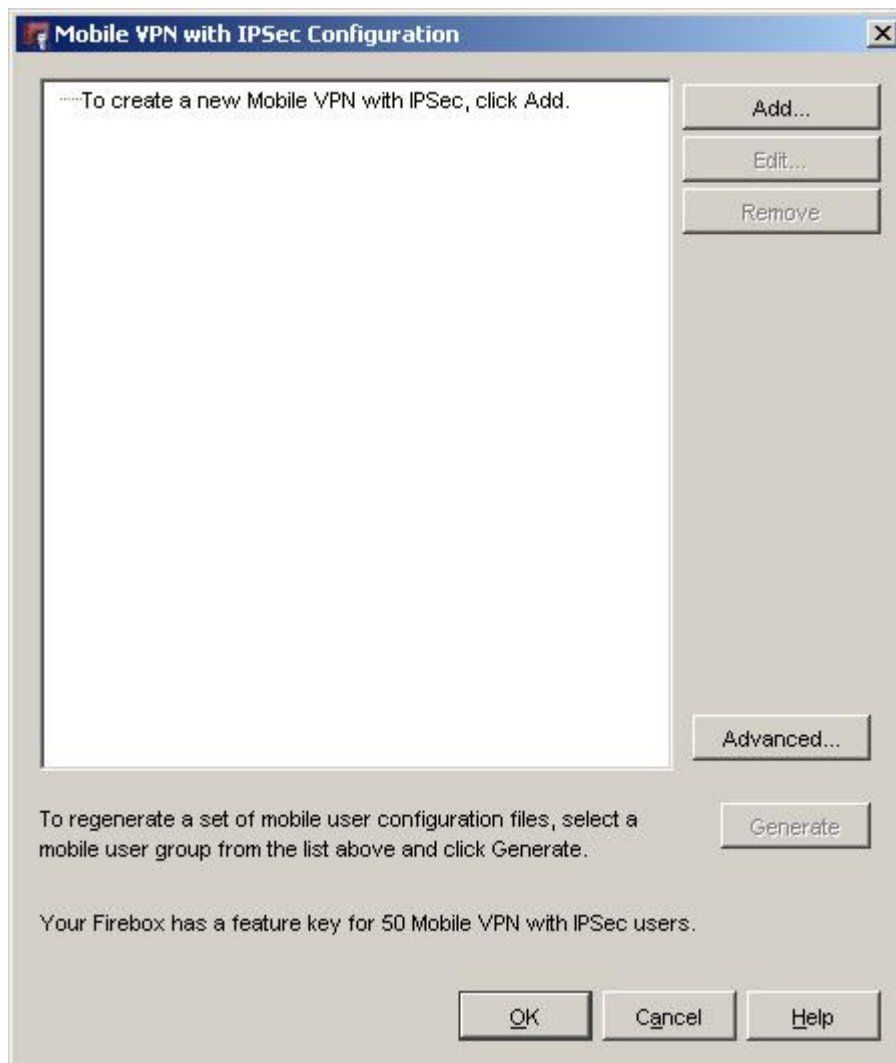
Enter One Time Code

A screenshot of the WatchGuard one-time code entry form. On the left is the WatchGuard logo. On the right, there is a label "One-Time Code" above a text input field containing four dots. Below the input field are "Apply" and "Reset" buttons.

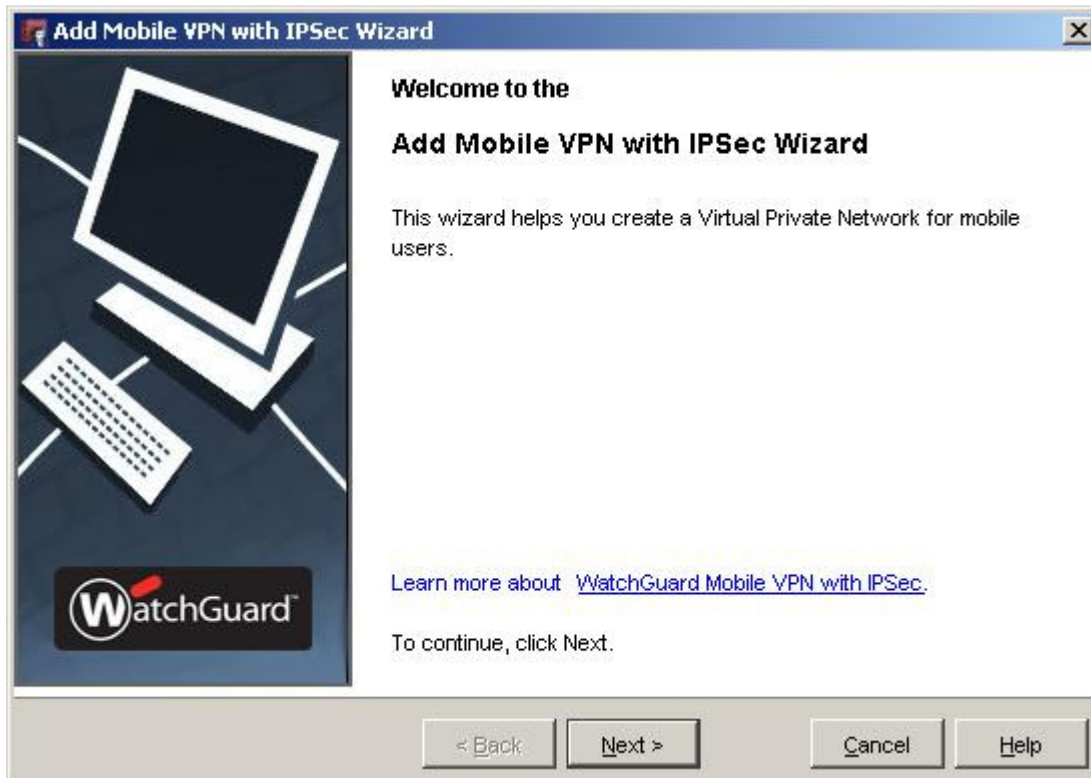


### 3.2.5. Configuration of VPN Gateway for VPN IPSEC Client

1. From the WatchGuard Policy Manager select VPN/Mobile VPN/IPSec... then click Add.



2. The Add Mobile VPN with IPsec Wizard starts, click Next.



3. Select the authentication server, and enter a group name.



4. Enter a passphrase for the VPN Tunnel

**Add Mobile VPN with IPSec Wizard** [X]

**Select a tunnel authentication method.** WatchGuard

Select the authentication method the Firebox will use to establish a secure VPN tunnel.

Use this passphrase:

Tunnel Passphrase: [\*\*\*\*\*]

Retype Passphrase: [\*\*\*\*\*]

Use an RSA certificate issued by your WatchGuard Management Server.

Provide the administration passphrase for your server.

IP Address: [0 . 0 . 0 . 0]

Administration Passphrase: [ ]

[Learn more about authentication methods.](#)

< Back    Next >    Cancel    Help

5. Select how users traffic will be routed.

**Add Mobile VPN with IPSec Wizard** [X]

**Direct the flow of Internet traffic.** WatchGuard

Do you want all traffic between the mobile computer and the Internet to flow through the tunnel?

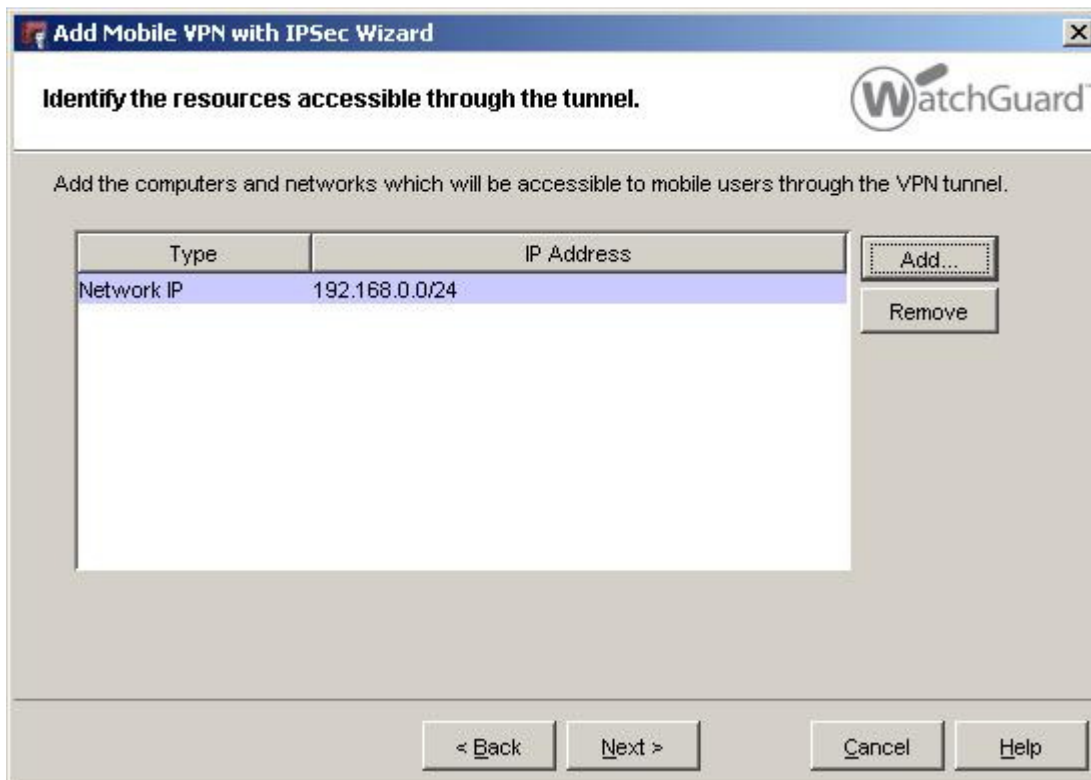
No, allow Internet traffic to go directly to the mobile user's ISP. (more flexible, less secure)

Yes, force all Internet traffic to flow through the tunnel. (less flexible, more secure)

[Learn more about directing Internet traffic through a tunnel.](#)

< Back    Next >    Cancel    Help

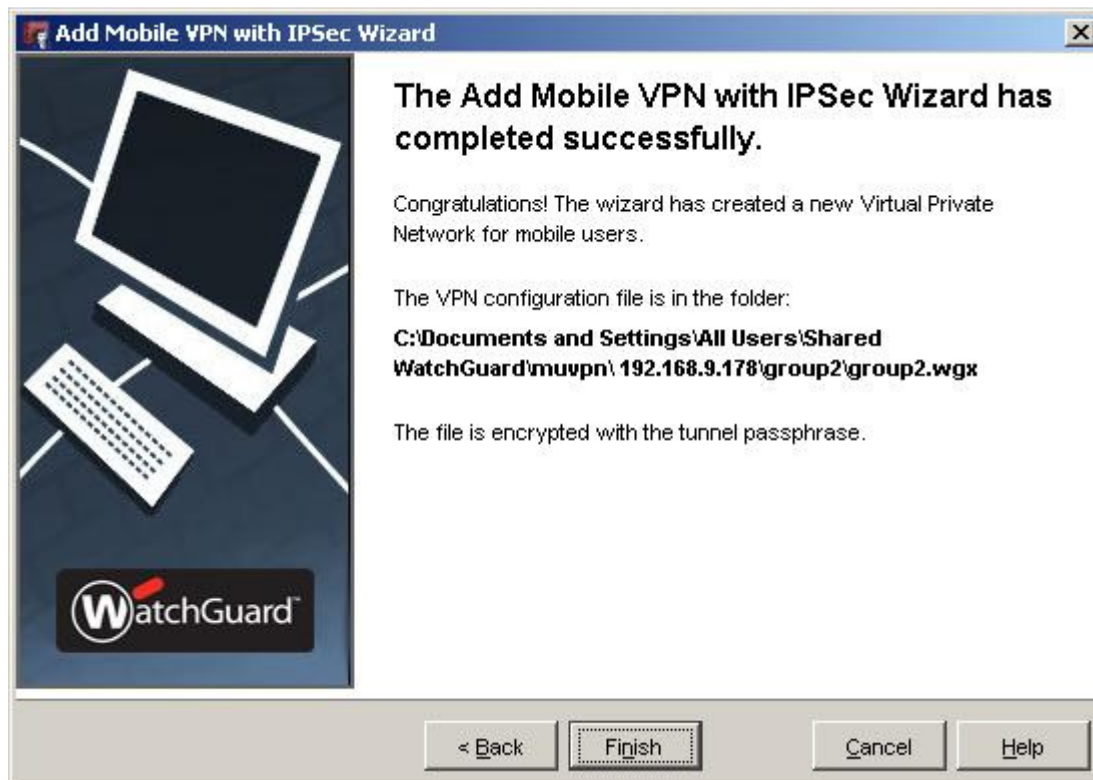
6. Enter the resources that are available through the VPN



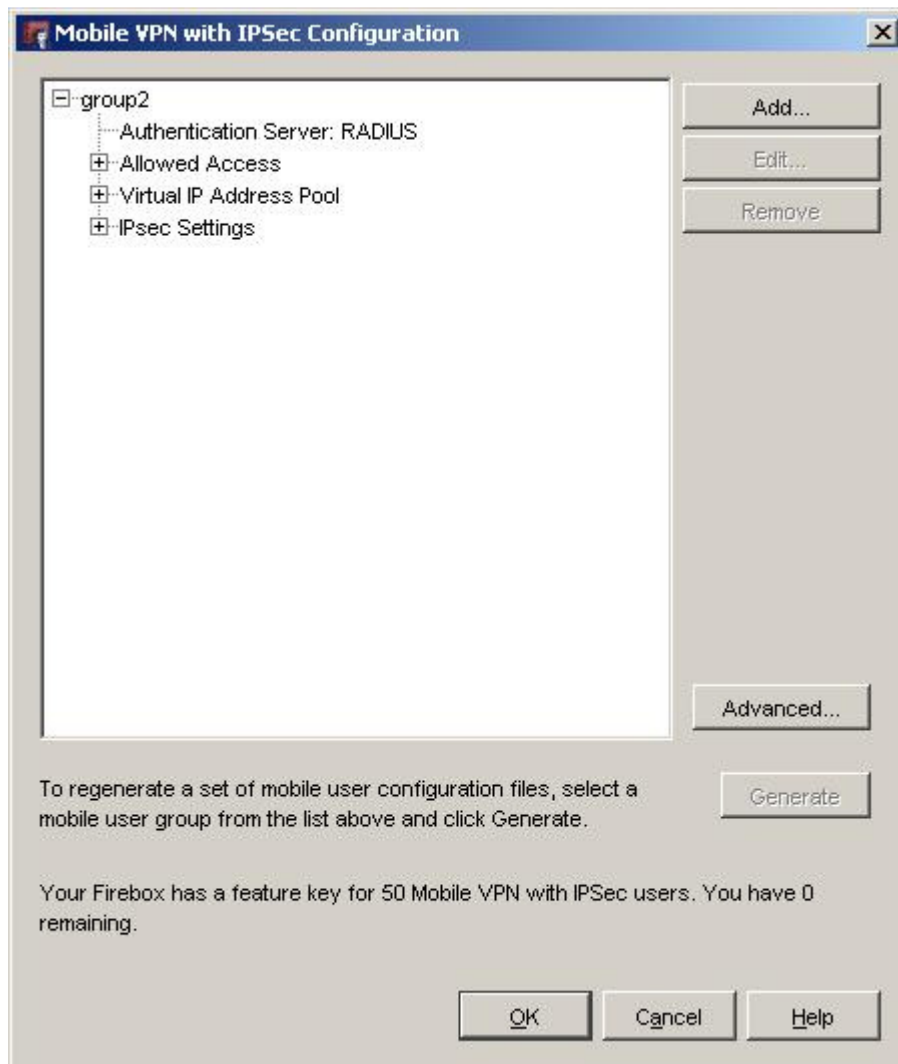
7. Enter the IP address ranges that are available to users



8. When complete click on Finish



9. Select the Group and click on Generate to create the Client policy.



10. The configuration files can be imported into the VPN Client software.



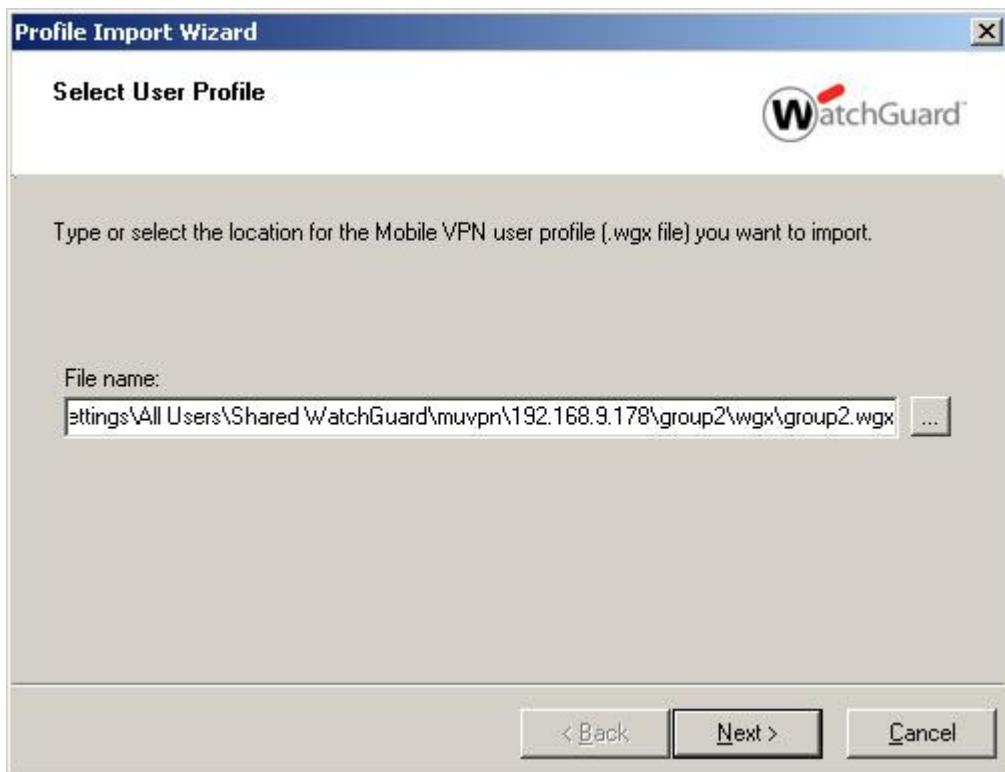
11. Start the VPN Client and select Configuration/Profiles. Click on Configuration then Profile Import.

### 3.2.6. Configuration of VPN IPSEC Client





1. Select the Configuration file created above, then click on Next.



2. Enter the passphrase used above then click on Next.



**Profile Import Wizard**

**Decrypt User Profile**

Type the passphrase or key used to protect the user profile. If you do not have the passphrase, contact your network administrator. The passphrase is case sensitive.

Key or Passphrase:

XXXXXXXXXX

< Back   Next >   Cancel

3. Enter the Authentication information, if you wish to enter the User ID: for the profile, enter the required User ID:, leave the Password field empty then click on Next.

**Profile Import Wizard**

**Authentication**

Type the user name and password you use to connect to the VPN. You get this information from your network administrator.

If you do not type your user name and password here, then you must type this information each time you connect to the VPN.

Use the same user name and password for all profiles

Profile: group2

User name:

Password:

Confirm password:

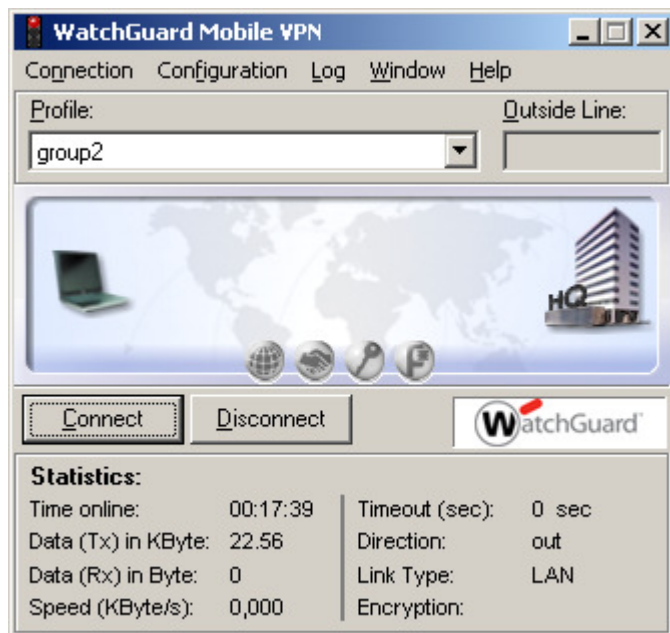
< Back   Next >   Cancel

4. The profile is completed, then click on Finish.



### 3.2.7. Connecting using the VPN IPSEC Client

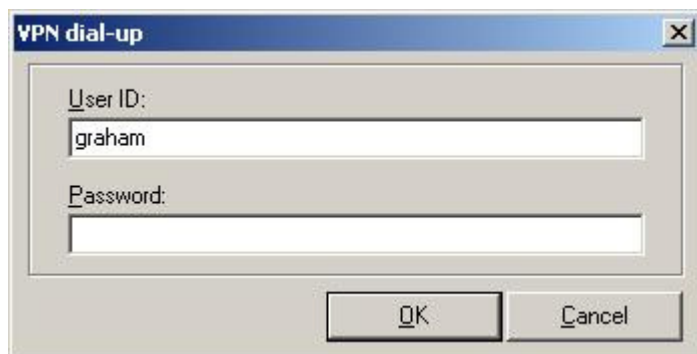
1. Select the required profile and then click Connect



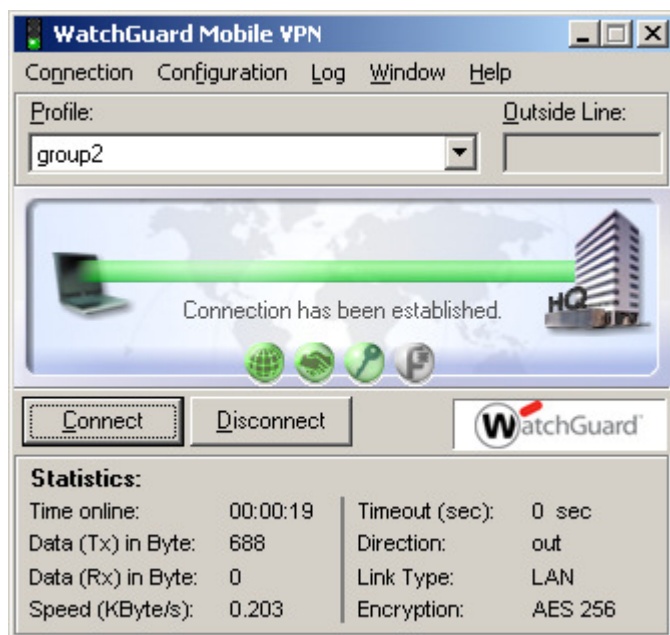
2. Select the required profile and then click Connect

Enter the username (unless pre-defined above), then enter the PINsafe One Time Code, possible sources of the One Time Code are:

- SMS Text Message
- PINsafe Taskbar utility or Single Channel image
- Mobile Phone Applet

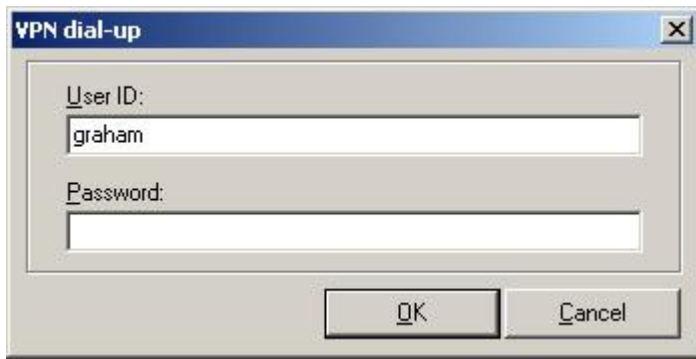


3. If a correct One Time Code is entered, the VPN connection is established.

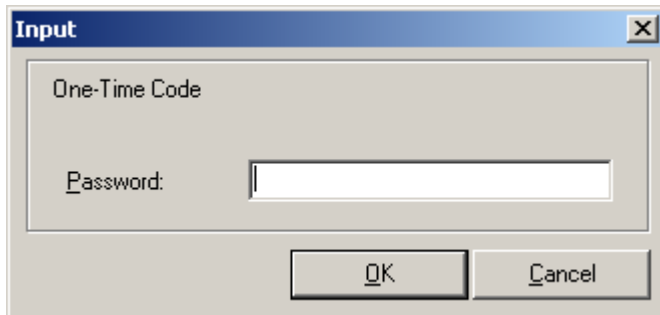


### 3.2.8. Optional: IPSec Authentication using Two Stage or Two Stage and Challenge and Response

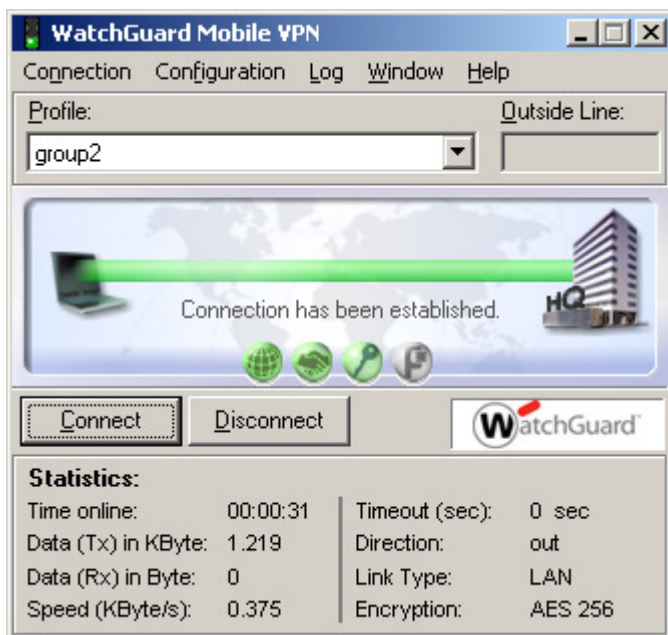
Enter Username and Password



Enter One Time Code



If a correct One Time Code is entered, the VPN connection is established.



## 4. Verifying the Installation

<How to check the install is working ok>

## 5. Troubleshooting

<If it does not work, what steps to try>

## **6. Known Issues and Limitations**

<If there are any, if none write None >

## **7. Additional Information**

For assistance in the PINsafe installation and configuration please firstly contact your reseller and then email Swivel Secure support at [support@swivelsecure.com](mailto:support@swivelsecure.com)