



# VPN Tracker for Mac OS X



**How-to:**  
**Interoperability**  
**With**  
**Asanté FriendlyNET VR2004**  
**VPN Routers**

Rev. 1.0

Copyright © 2004 equinux USA Inc. All rights reserved.

# 1. Introduction

This document describes how VPN Tracker can be used to establish a secure connection between a Macintosh running Mac OS X and Asanté FriendlyNET VR2004 appliances.

The Gateway is configured as a router connecting a company LAN to the Internet.

This paper is only a supplement to, not a replacement for, the instructions that have been included with your Asanté FriendlyNET VR2004 appliance. Please be sure to read those instructions and understand them before starting.

All trademarks, product names, company names, logos, screenshots displayed, cited or otherwise indicated on the How-to are the property of their respective owners.

EQUINIX SHALL HAVE ABSOLUTELY NO LIABILITY FOR ANY DIRECT OR INDIRECT, SPECIAL OR OTHER CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE HOW-TO OR ANY CHANGE TO THE ROUTER GENERALLY, INCLUDING WITHOUT LIMITATION, ANY LOST PROFITS, BUSINESS, OR DATA, EVEN IF EQUINIX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

# 2. Prerequisites

Please make sure, that you use a recent Asanté FriendlyNET VR2004 firmware version.

On the Mac side you need one VPN Tracker Personal license for each Mac connecting to the Asanté FriendlyNET VR2004. VPN Tracker is compatible with Mac OS X 10.2/10.3.

### 3. Connecting a VPN Tracker host to a Asanté Router

In this example the Mac running VPN Tracker is directly connected to the Internet via a dialup or PPP connection.<sup>1</sup>

The Asanté router is configured in NAT mode and has the static WAN IP address 169.1.2.3 and the private LAN IP address 192.168.1.1. The Stations in the LAN behind the VPN Gateway use 192.168.1.1 as their default gateway and should have a working Internet connection.

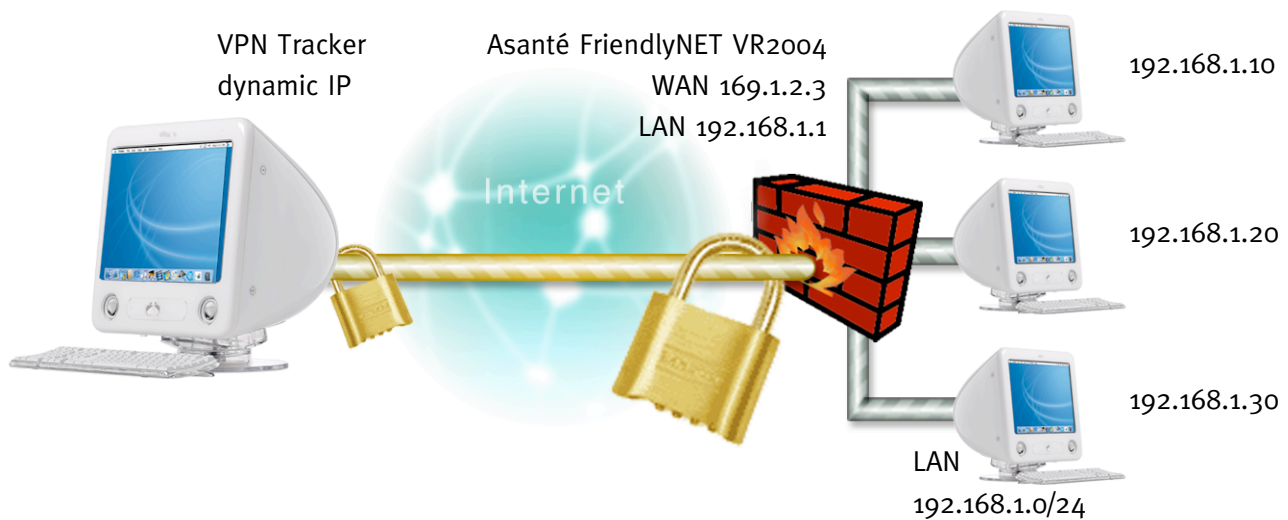


Figure 1: VPN Tracker – Asanté FriendlyNET VR2004 connection diagram

---

<sup>1</sup> Please note that the connection via a router, which uses Network Address Translation (NAT), only works if the NAT router supports „IPSEC passthrough“. Please contact your router’s manufacturer for details.

### 3. Connecting a VPN Tracker host to a Asanté Router

#### 3.1 Asanté FriendlyNET VR2004 Configuration

Please go to “Setup Wizard → VPN Settings” and create a new connection. Enter an arbitrary “Connection Name” and your “PreShared Key”.

Setup Wizard - VPN Settings

VPN Security Router

Device Information Device Status **Setup Wizard** Advanced Settings System Tools Help

Main menu

- Time Zone Settings
- Device IP SETTINGS
- ISP Settings
- Additional ISP Settings
- Wireless Settings
- Modem Settings
- VPN Settings**
- Save & Restart
- Logout

**VPN Settings**

Connection Name: vpntracker

Local IPSEC Identifier:

Remote IPSEC Identifier:

Remote IP Network: 0 . 0 . 0 . 0

Remote IP Netmask: 0 . 0 . 0 . 0

Remote Gateway IP: 0 . 0 . 0 . 0

Network Interface: WAN ETHERNET

Secure Association: ☒ IKE ☐ Manual

Perfect Forward Secure: ☒ Enabled ☐ Disabled

Encryption Protocol: 3DES

PreShared Key: 1234

Key Life: 3600 Seconds

IKE Life Time: 28800 Seconds

Save

Enable	Connection Name	Local IPSEC ID	Remote IPSEC ID	Command
<input checked="" type="checkbox"/>	vpntracker			Edit Del

< Back Next >

Figure 2: Asanté - VPN Settings

Save your settings and restart the Asanté FriendlyNET VR2004 router.

#### 3.2 VPN Tracker Configuration

##### Step 1

Add a new connection with the following options: Choose „Asante“ as the Connection Type, „Host to Network“ as Topology, then type in the remote endpoint (169.1.2.3) and the remote network (192.168.1.0/24).

The screenshot shows the 'VPN Tracker - Main Window' configuration dialog. It is divided into three sections: General, Networking, and Authentication. In the General section, the 'Name' field is set to 'Asanté', the 'Connection Type' is set to 'Asante', and the 'Initiate connection' checkbox is checked. In the Networking section, the 'Topology' is set to 'Host to Network', the 'Local Endpoint' is set to 'Default Interface', the 'Remote Endpoint' is set to '169.1.2.3', the 'Local Host' field is empty with an 'optional' label, and the 'Remote Network' is set to '192.168.1.0 / 24'. In the Authentication section, the 'Pre-shared key' radio button is selected, and there are 'Edit...' buttons for both 'Pre-shared key' and 'Certificates'. At the bottom, there is a lock icon with the text 'Click the lock to prevent further changes.' and 'Cancel' and 'Save' buttons.

Section	Field/Option	Value
General	Name	Asanté
	Connection Type	Asante
	Initiate connection	<input checked="" type="checkbox"/>
Networking	Topology	Host to Network
	Local Endpoint	Default Interface
	Remote Endpoint	169.1.2.3
	Local Host	optional
	Remote Network	192.168.1.0 / 24
Authentication	Pre-shared key	<input checked="" type="radio"/>
	Certificates	<input type="radio"/>

Figure 3: VPN Tracker - Main Window

### 3. Connecting a VPN Tracker host to a Asanté Router

#### Step 2

Select as “Authentication” method „Pre-shared key“ and click “Edit...”. Please type in the Pre-shared key you typed in chapter 3.1.



Figure 4: VPN Tracker - PSK dialog

#### Step 3

Save the connection and Click on „Start IPsec“ in the VPN Tracker main window.

You're done. After 10-20 seconds the red status indicator for the connection should change to green, which means you're securely connected to the Asanté FriendlyNET VR2004. After IPsec has been started, you may quit VPN Tracker. The IPsec service will keep running.

Now to test your connection simply ping a host in the Asanté FriendlyNET VR2004 network from the dialed-in Mac in the “Terminal” utility:

```
ping 192.168.1.10
```

#### ❖ Debugging

If the status indicator does not change to green please have a look at the log file on both sides. You can define the amount of information available in the log file in the VPN Tracker preferences.