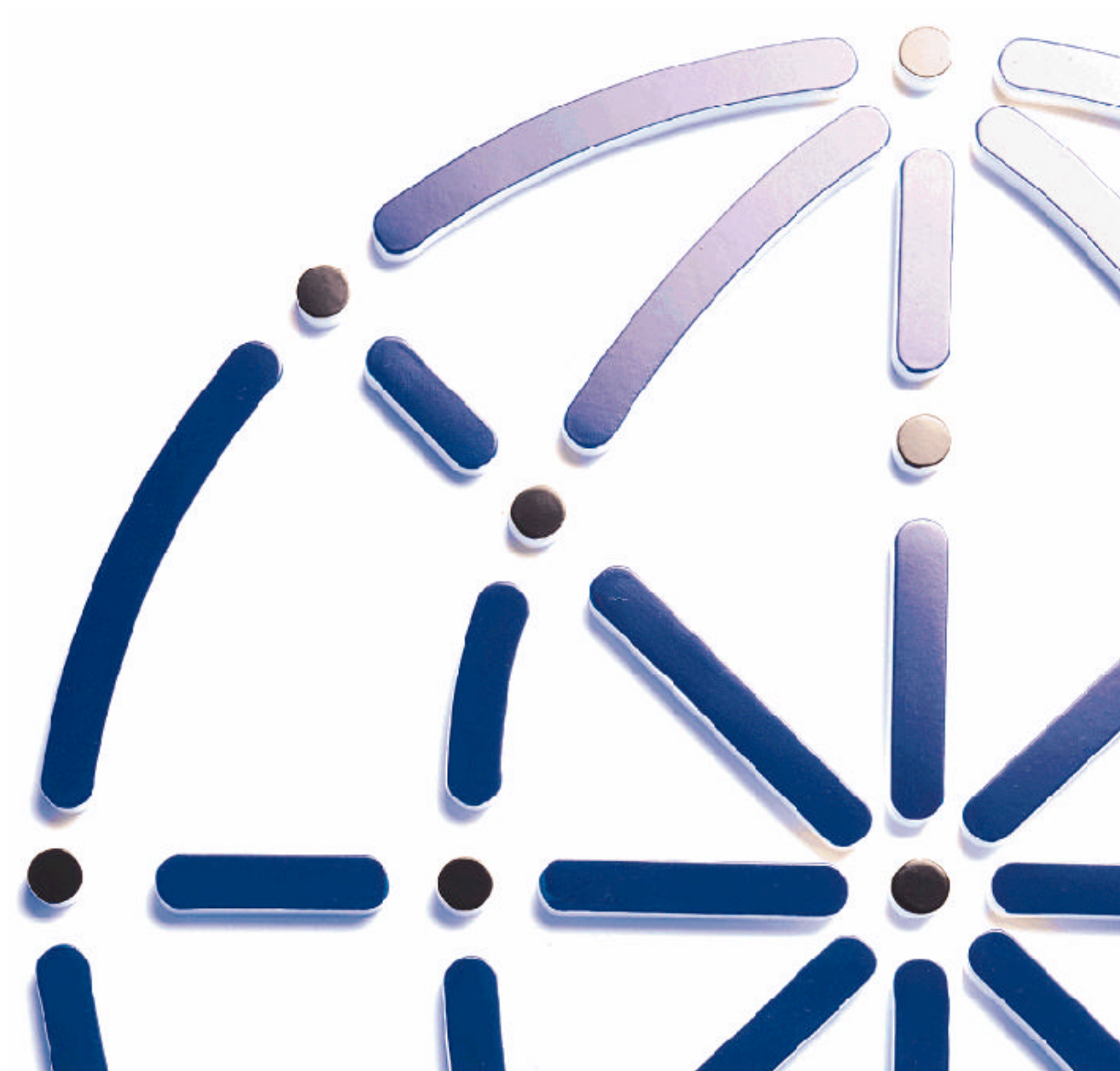


Windows 2000

Establishing a VPN Tunnel without Nortel

Access Products

June 2002.



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Introduction

This document has been put together in response to customers requirements where conflicting 3rd party software does not allow the use of Nortel Extranet, provided for by Galileo Southern Cross when installing FocalPointNet.

This guide is intended as an aid for installing and configuring FocalpointNet single or multi user environment on a Windows 2000 Professional machine. This guide is in response to customer requests and does not constitute a released or supported product. The following documentation is based on internal testing at Galileo Southern Cross. These procedures may vary depending on individual site requirements and server administration differences.

This solution is not supported by Galileo Southern Cross Service Centre, and troubles experienced by users using this method of connectivity must understand that there is no service level agreement.

Requirements

The following hardware and networking must be installed and functioning before FocalpointNet is configured and installed:

- ISP access and Internet connectivity.

IMPORTANT:

Windows NT Administration password is required.

Assumptions

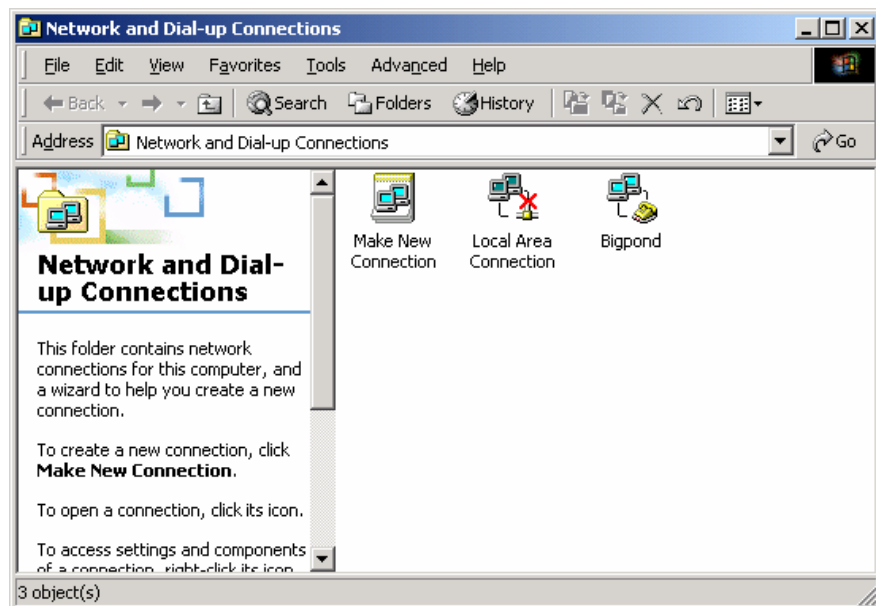
This guide is intended to document the process for installing VPN Connectivity, however, these procedures cannot duplicate the process that will be required for every installation. The following assumptions apply to this guide:

1. The user has already installed Focalpoint 3.50.21 and Wingate (if multi-user environment) and found that Nortel Extranet is incompatible.
2. The drive locations will vary depending on your server environment. For this document, the following standards apply:
 - Drive C designates the local drive of the W2K machine.
 - Drive A designates the floppy drive.
 - Drive D designates the CD-ROM drive.

Adding VPN account

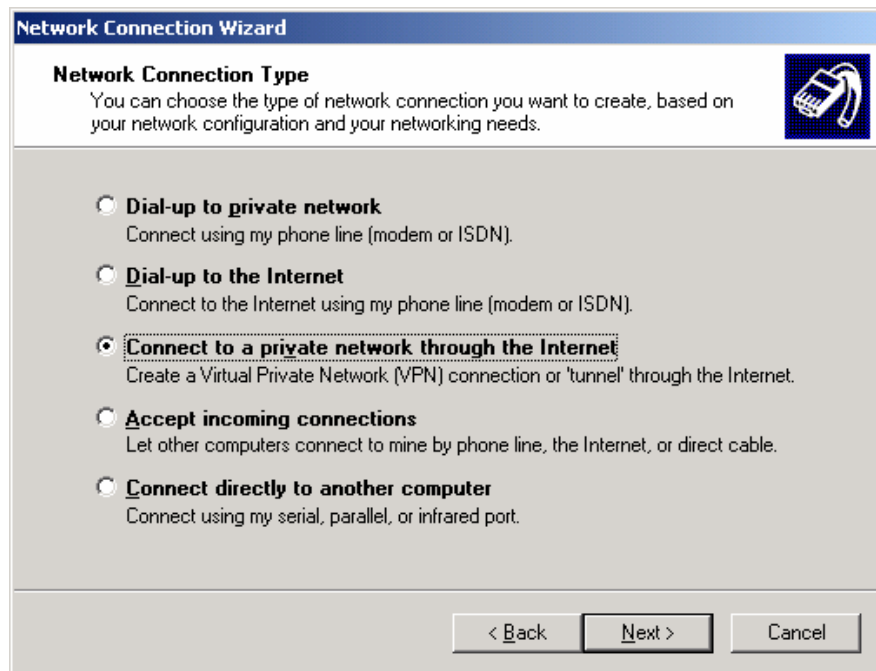
 ENSURE YOU ARE LOGGED IN AS THE ADMINISTRATOR


 Right click on the My Network Places icon on your desktop and select properties,



 Select the Make New Connection icon to launch the Network Connection Wizard as pictured next.



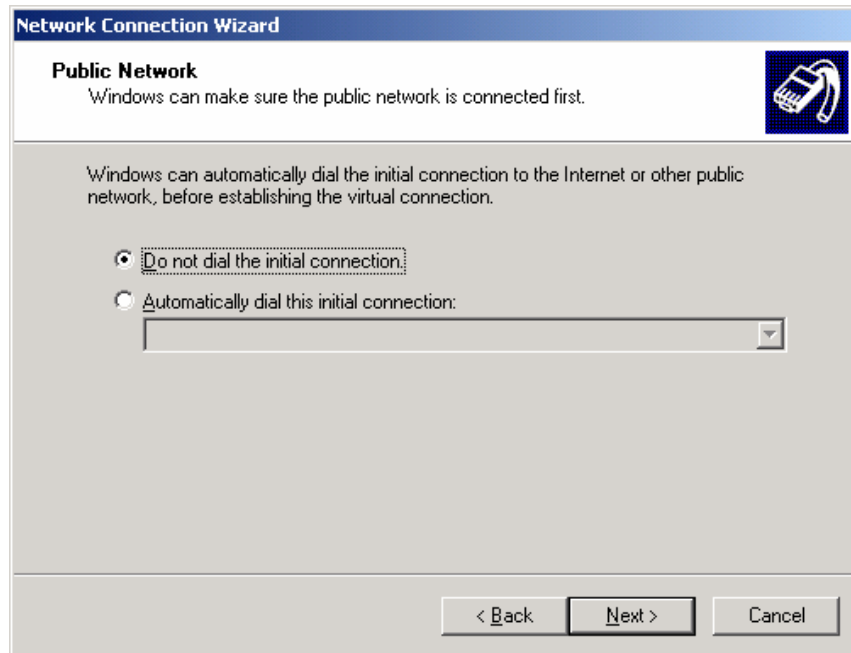


 Select the 3rd Radio option, Connet to a private network through the internet, then select next

The Public Window displays next.

This screen will allow the opportunity to establish the ISP connection if no connection is present when connecting the VPN tunnel.

It is recommended that you change the default to “Do not dial the initial connection”.

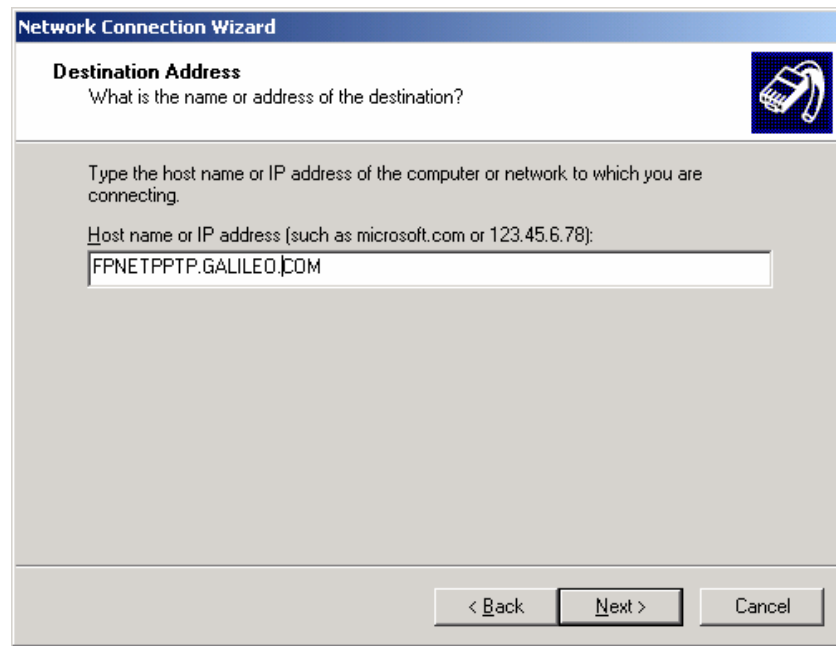


The default is the lower radio button.

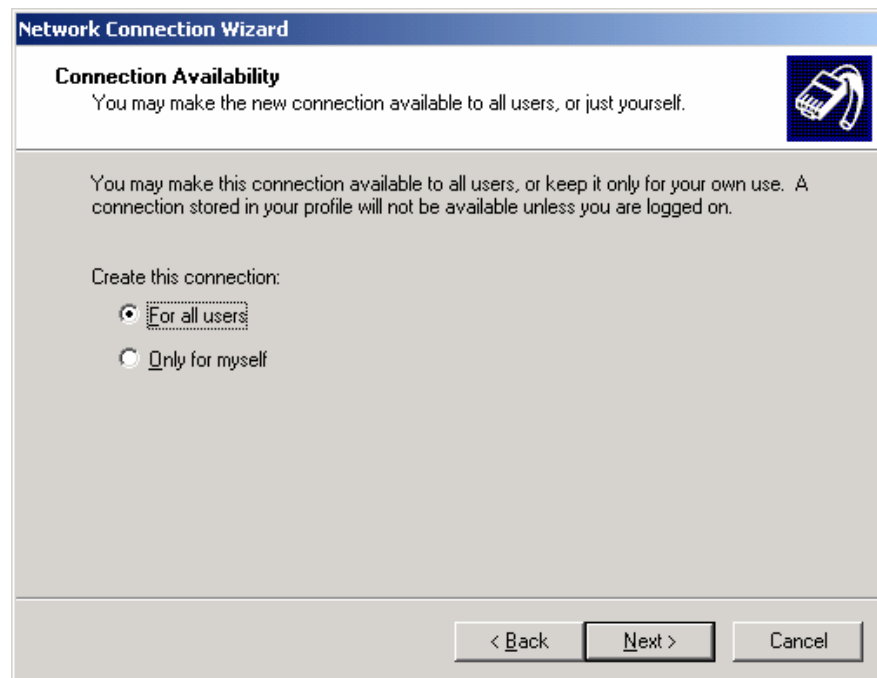



Change this to the UPPER radio button then select next.

The Destination Address window will display.



 Type ***FPNETPPTP.GALILEO.COM*** and then select next.



 Select "For all users" and then select Next

The Completing the Network Connection Wizard window will display next.



Give the Connection a name such as "Galileo VPN"



Check the Add shortcut to Desktop



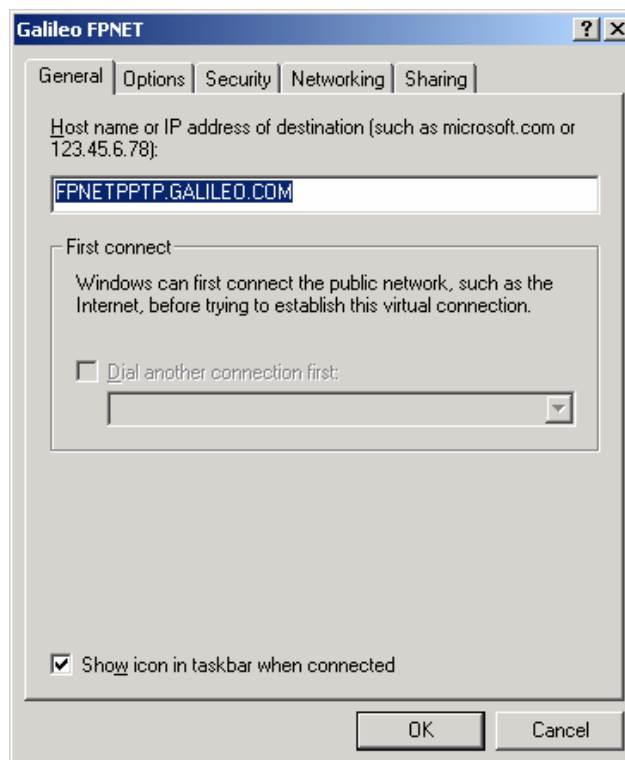
Select FINISH.

Customising the VPN Properties



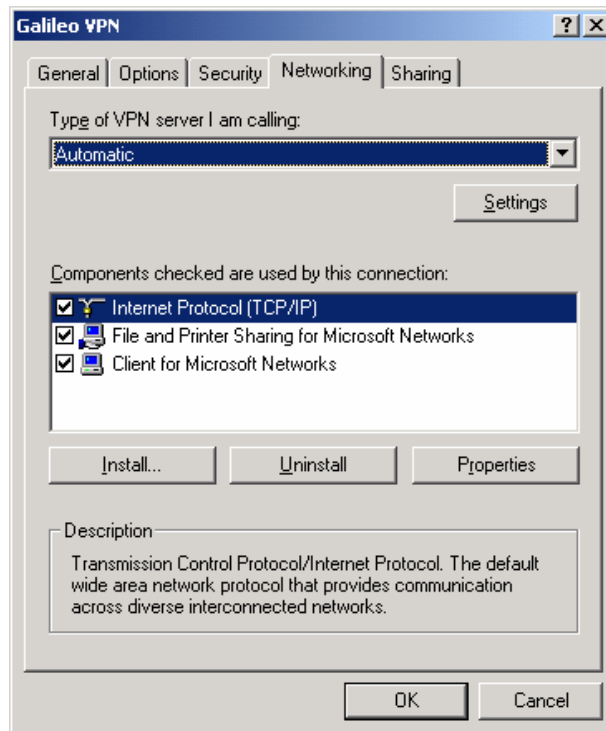
Having ended the wizard this screen will automatically display.

 *Click the Properties Button*



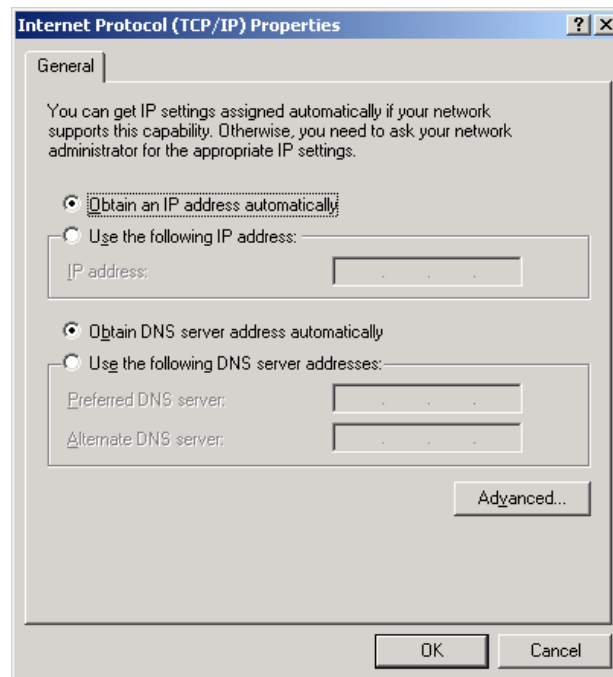
This window will display.

 *Select the Networking Tab*



Ensure INTERNET PROTOCOL (TCP/IP) is highlight then

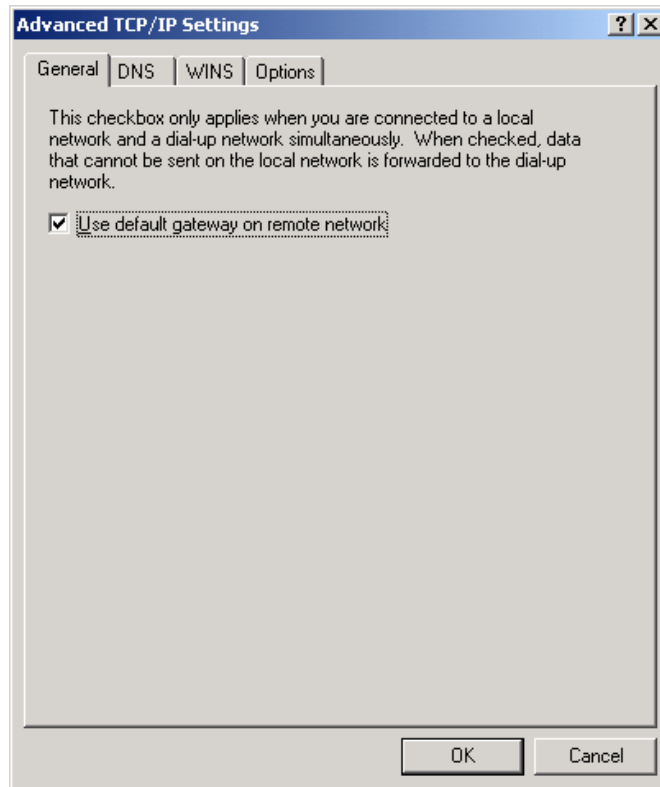
 *Click on Properties*



The above dialogue box will display.

Ensure that the two default options are set to obtain automatically.



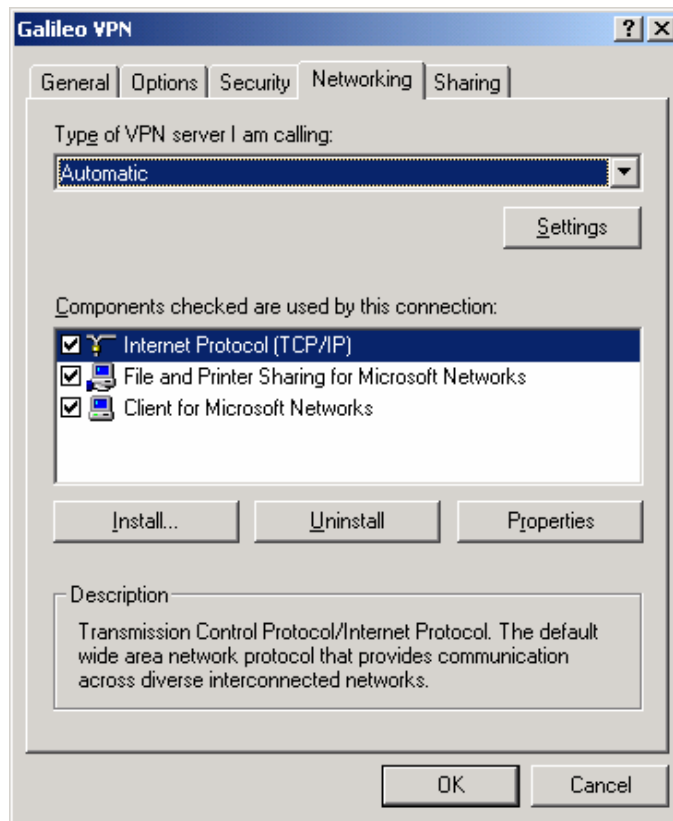


The Advanced TCP/IP Settings window will display and it will default with the check box for “Use default gateway on remote network” selected.



Uncheck this option and click OK

This window will redisplay.



 *Click OK*



This window will redisplay.

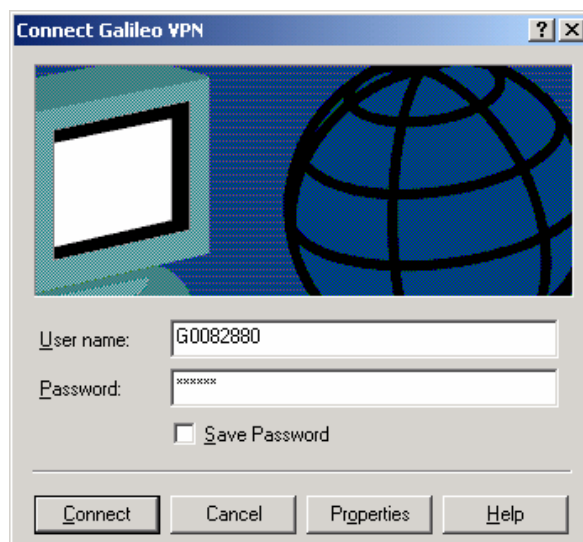
Setting the Galileo Userid & Password

Galileo Southern Cross will allocate a Client ID, which is also the User name and a Galileo Terminal ID (GTID), which is also the password. These fields are case sensitive and must be in UPPER case.



 *Type your client id and GTID in upper case*

In this example the Client ID is G0082880. The Password will always appear as asterixs.

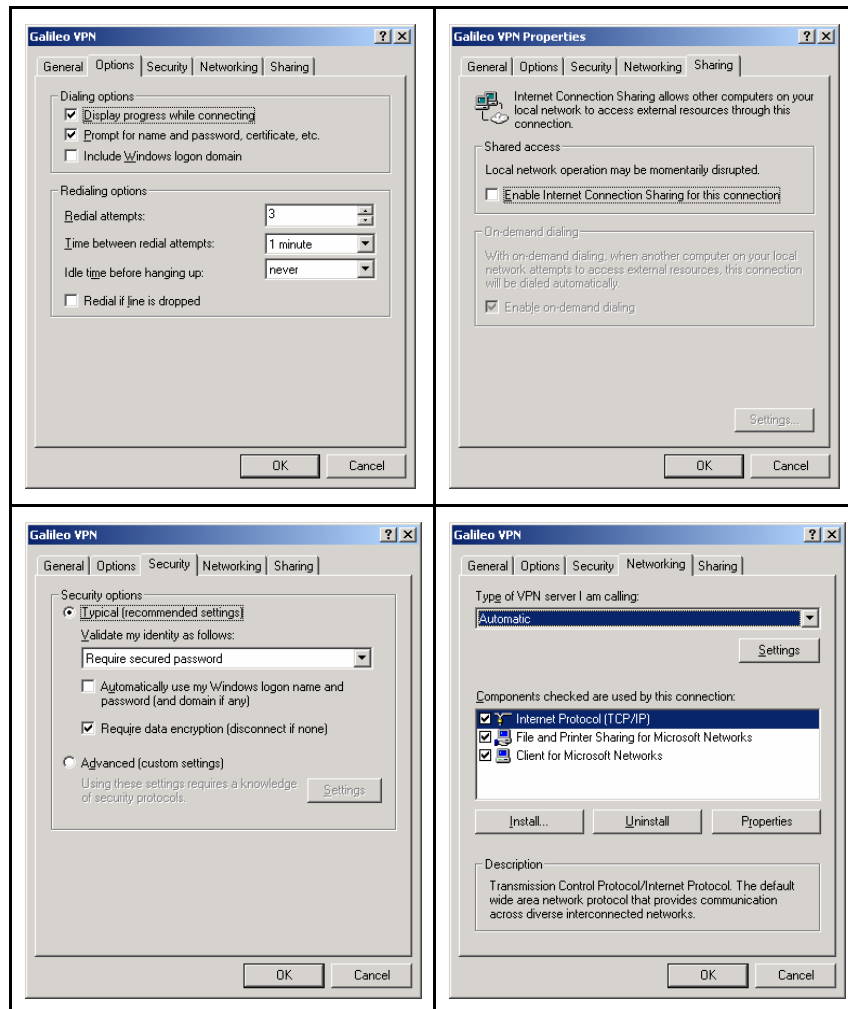


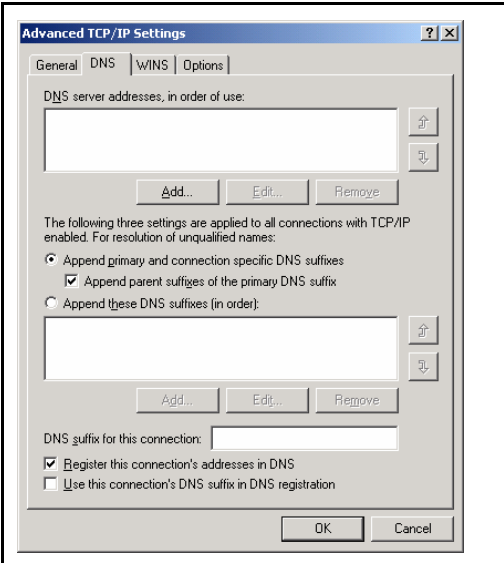
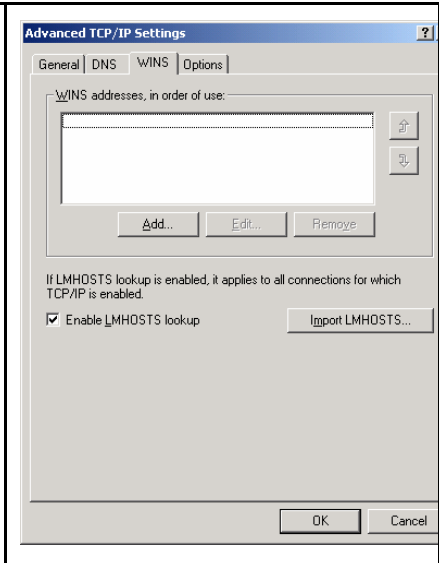
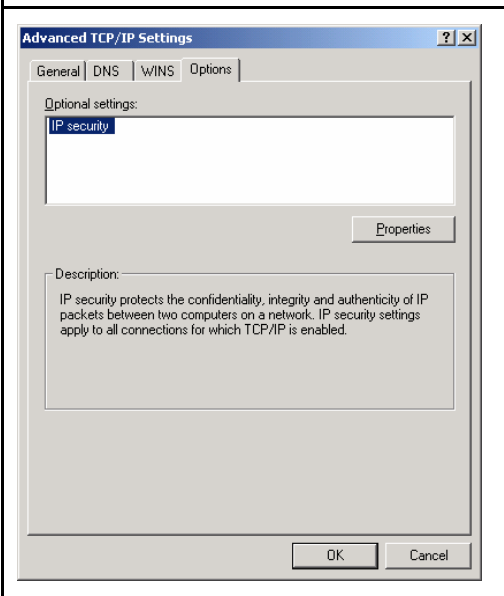
 *Click Save Password*

Default VPN Properties

The following screen shots are of all other settings in the VPN properties.

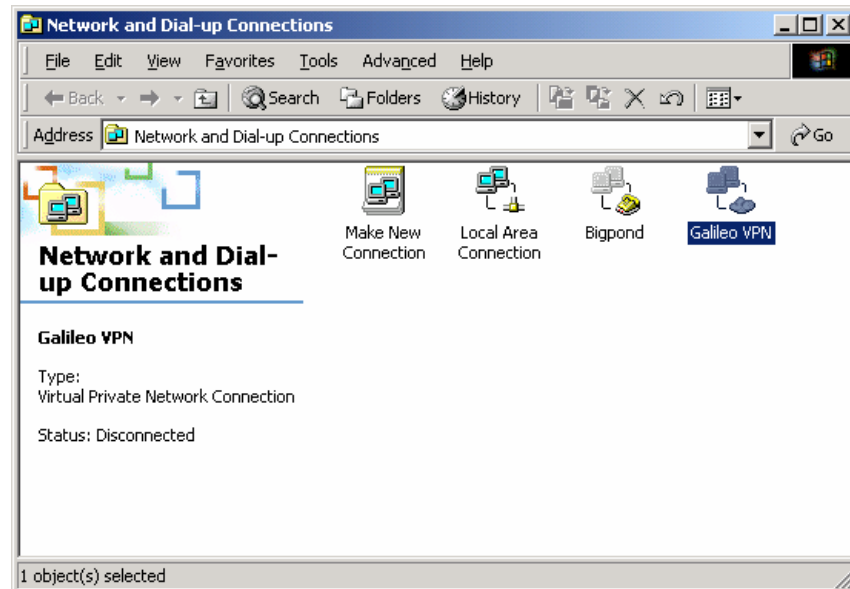
In testing these settings were found to be the defaults and therefore should not need to be changed.



 <p>The screenshot shows the 'Advanced TCP/IP Settings' dialog box with the 'DNS' tab selected. It features a list for 'DNS server addresses, in order of use:' with 'Add...', 'Edit...', and 'Remove' buttons. Below this, it states: 'The following three settings are applied to all connections with TCP/IP enabled. For resolution of unqualified names:'. There are three radio button options: 'Append primary and connection specific DNS suffixes' (selected), 'Append parent suffixes of the primary DNS suffix' (checked), and 'Append these DNS suffixes (in order):'. There is a text box for 'DNS suffix for this connection:' and two checkboxes: 'Register this connection's addresses in DNS' (checked) and 'Use this connection's DNS suffix in DNS registration' (unchecked). 'OK' and 'Cancel' buttons are at the bottom.</p>	 <p>The screenshot shows the 'Advanced TCP/IP Settings' dialog box with the 'WINS' tab selected. It features a list for 'WINS addresses, in order of use:' with 'Add...', 'Edit...', and 'Remove' buttons. Below this, it states: 'If LMHOSTS lookup is enabled, it applies to all connections for which TCP/IP is enabled.' There is a checked checkbox for 'Enable LMHOSTS lookup' and an 'Import LMHOSTS...' button. 'OK' and 'Cancel' buttons are at the bottom.</p>
 <p>The screenshot shows the 'Advanced TCP/IP Settings' dialog box with the 'Optional Settings' tab selected. It features a list with 'IP security' selected. A 'Properties' button is to the right of the list. Below the list, there is a 'Description:' section with the text: 'IP security protects the confidentiality, integrity and authenticity of IP packets between two computers on a network. IP security settings apply to all connections for which TCP/IP is enabled.' 'OK' and 'Cancel' buttons are at the bottom.</p>	<p>In testing these settings were found to be the defaults and therefore should not need to be changed.</p>

Connecting the VPN

Display the Galileo VPN icon by right clicking on My Network places and selecting properties.



You may also have a shortcut on your desktop as per the wizard step mentioned on page 10.

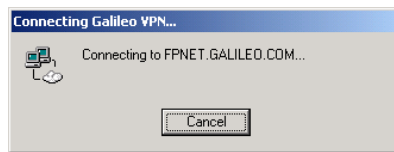


Click on the Galileo VPN icon



Click on the Connect button

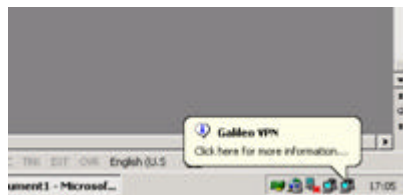
The following will appear during the connection process.



When the connection is successful it will minimise itself onto the task bar.

Care should be taken when troubleshooting as this icon will look the same as the bigpond icon and the ethernet card icon.

Floating your mouse over the icons will display which is which.



Route Add Statement



Display your IP addresses via the command prompt

```
C:\WINNT\System32\cmd.exe
C:\>IPCONFIG
Windows 2000 IP Configuration
Ethernet adapter {80E3A116-1EBB-4B32-991F-531FF34E8093}:
    Connection-specific DNS Suffix . . :
    IP Address . . . . . : 0.0.0.0
    Subnet Mask . . . . . : 0.0.0.0
    Default Gateway . . . . . :

Ethernet adapter Local Area Connection:
    Media State . . . . . : Cable Disconnected

PPP adapter Galileo UPN:
    Connection-specific DNS Suffix . . :
    IP Address . . . . . : 172.20.51.210
    Subnet Mask . . . . . : 255.255.255.255
    Default Gateway . . . . . :
```

The PPP Adapter Galileo VPN IP address will display.

Galileo will advise your IP address.

In the above example 172.20.51.210 has been allocated to the machine.

If the IP address that is allocated to yourself is 172.20.X.X then you can ignore the rest of this chapter.


If your IP address is 172.21.0.0 or higher you will need to add a route command to your machine.

```

C:\WINNT\System32\cmd.exe
Default Gateway . . . . . :
Ethernet adapter Local Area Connection:
    Media State . . . . . : Cable Disconnected
PPP adapter Bigpond:
    Connection-specific DNS Suffix . :
    IP Address . . . . . : 203.54.163.39
    Subnet Mask . . . . . : 255.255.255.255
    Default Gateway . . . . . : 203.54.163.39
PPP adapter:
    Connection-specific DNS Suffix . :
    IP Address . . . . . : 172.21.80.111
    Subnet Mask . . . . . : 255.255.255.255
    Default Gateway . . . . . :
C:\>

```

In the above example the IP address allocated by the Galileo VPN is 172.21.80.111. As this is higher than 172.21.0.0 a ROUTE ADD command needs to be added.

 *Type route add 172.20.200.0 mask 255.255.255.0 (and your ip) /p*

```

C:\WINNT\System32\cmd.exe
C:\>route add 172.20.200.0 mask 255.255.255.0 172.21.80.111 /p_

```

Refer <http://support/APS/files/1%20KnowledgeBase/KBx%20-%20FPN%20New%20DB%20with%20PPTP/APISD-FPN%20NewDB%20with%20PPTP.htm>

The /p will make this entry permanent and therefore only needs to be done once.

The GALILEO VPN connection must be connected when making this entry.