

# BGAN from Stratos

Application Note

## Cisco VPN Client



Global Terrestrial Network

Revision: 1.0 Apr-11

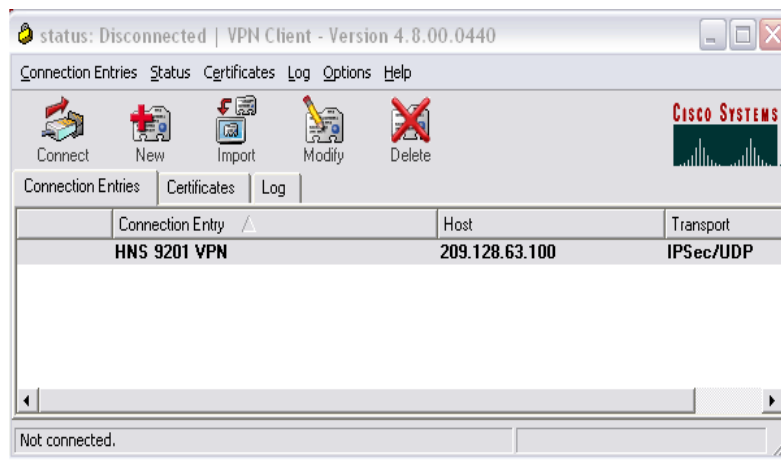
AuthID: SE.AH

### Purpose

The purpose of this document is to describe how to configure a Cisco VPN Client software version: 4.8.00.0440 solution for use with the Hughes 9201 BGAN terminal.

### Summary

The Cisco VPN Client is installed on a remote PC which communicates with a Cisco VPN device at an enterprise or service provider location. The VPN Client creates a secure connection over the Internet that lets the end user access a private network as if they were an on-site user.



### Description

The Cisco VPN Client allows organizations to establish end-to-end, encrypted VPN tunnels for secure connectivity for mobile employees or satellite office workers. This thin design, IP security (IPSec) implementation is compatible with all Cisco virtual private network (VPN) products. The Cisco VPN Client can be preconfigured for mass deployments and initial logins require little user intervention. It supports the innovative Cisco Easy VPN capabilities, delivering a uniquely scalable, cost effective, and easy-to-manage remote access VPN architecture that eliminates the operational costs associated with maintaining a consistent policy and key management method.

Benefits:

- Secured access to corporate resources
- Remote PC and handheld protection
- Flexible connectivity options
- Simplified central management for lower total cost of ownership

### Requirements

To provide a secured connection to corporate resources, the remote PC must have the Cisco Client installed on the PC. The remote PC must be configured to allow authentication into the Corporate or Enterprise Network. The remote PC will need to have an authorized profile created with the correct IP address, login credentials, and a network token.

## System Requirements

The Cisco VPN Client supports Windows 98, ME, NT 4.0, 2000, and XP; Linux (Intel); and Solaris (UltraSparc 32-and 64-bit). The client is reported to work on Mac OS X, 10.2, 10.3, and 10.4 and is believed to work on newer versions of the MAC OS also. The Cisco VPN Client is compatible with the following Cisco products:

- Cisco 6500 / 7600 IPSec VPN SM and VPN SPA IOS Software Release 12.2 SX and later.
- Cisco VPN 3000 Series Concentrator Software Version 3.0 and later.
- Cisco IOS Software Release 12.2(8) T and later.
- Cisco PIX Security Appliance Software Version 6.0 and later.
- Cisco ASA 5500 Series Software Version 7.0 and higher.

The Cisco VPN Client is included with all models of Cisco VPN 3000 Series concentrators and Cisco ASA 5500 Series security appliances, and most Cisco PIX 500 security appliances. Customers with Cisco SMARTnet® support contracts and encryption entitlement may download the Cisco VPN Client from the Cisco Software Center at no additional cost. For customers without Cisco SMARTnet support contracts, a media CD containing the client software is available for purchase.

**Note:** This version of the VPN client is NOT compatible with the Windows NT 3.x and 4.x operating systems. If you are using a Windows 95, Windows 98, or Windows NT platform, you must update the VPN Client software manually. Please contact your Systems Administrator or your Cisco Vendor.

## Stratos Dashboard Configuration

To use the Cisco VPN Client, one can provision a Stratos SIM card with a Private IP address. This is the Default IP address scheme that is created when someone activates the SIM card in the Stratos Dashboard. The Private IP address is created during the provisioning phase of the activation or if a new user profile is created on an existing SIM card. A User Profile can be created that will be used to access the VPN Client. If you choose, it can also be set as the default User Profile. A default User Profile means that the user of the terminal will not be required to enter a user name and password when connecting to a data session. The Stratos Network knows how the SIM is to be used when connecting to the network.

Note: The default profile checkbox option circled in **RED** below

User Profile Details

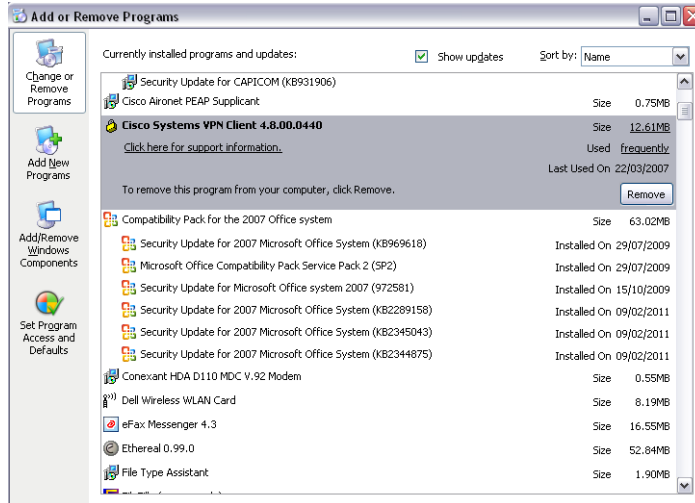
The screenshot shows the 'Details for User Profile R479584' configuration page. The 'Default' checkbox is circled in red. The configuration includes the following fields:

Access Type	Private IP Access
User Name	R4
Password	<input type="password"/>
Description	Private IP Access provides you with basic access to the internet.
Update by End-user Allowed	<input type="checkbox"/>
Customer ID	<input type="text" value="5"/>
SIM Card	<input type="text" value="901112"/>
Default	<input checked="" type="checkbox"/>
Maximum Streaming Speed Allowed	Streaming Symmetrical 384+ (BGAN only)
Trench Rules	Open
Subscription	
Current Sessions	0
Accept SIM cards	Accept any SIM card
IP Addresses	n/a
Actions	<input type="button" value="OK"/> <input type="button" value="Finish"/>

When configuring the Cisco VPN Client, it is recommended that the user installs the version suggested in this application note. If the user needs to re-install the software or needs to install a newer version, it is recommended to remove any older VPN Client software before installing the Cisco VPN Client with MSI 4.8.00.0440.

1. Access the "Add or Remove Programs" menu option available from the Windows Control Panel to remove any existing VPN Clients.

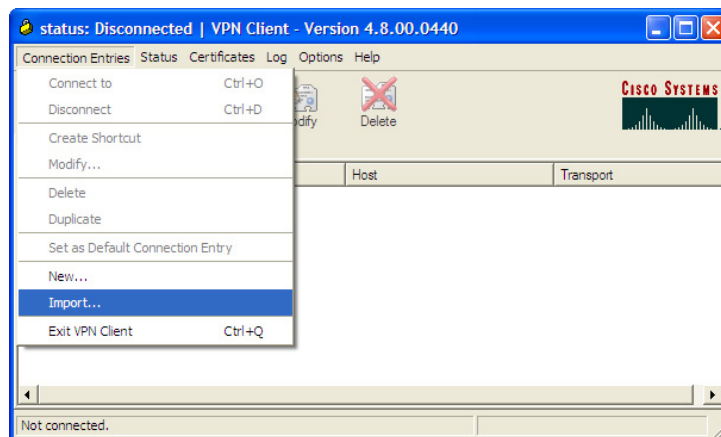
2. Install the VPN Client using the MSI installer (vpnclient\_en.msi). This may take a few minutes as it gathers system information.
3. To continue the installation select **"Next"**
4. Accept the license agreement **"Next"**
5. **"Next"**
6. **"Next"**
7. **"Finish"**
8. Restart your system



Regardless if you had to install a new version or uninstall and reinstall to a newer version you will be required to import or create a connection profile. Once you successfully install the Cisco VPN Client software, a new connection profile must be imported. If you uninstall and reinstall you can save the profiles prior to removing the Cisco VP Client and add them again once the new install is complete.

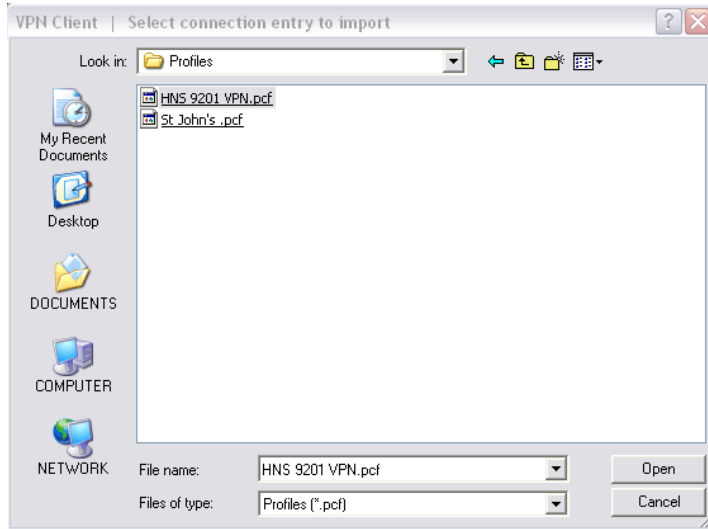
Start up the Cisco VPN Client from Start > Programs > Cisco Systems VPN Client > VPN Client

Your network administrator should create a BGAN connection profile for you. If they have not, you will need to create one or import it for the profiles directory folder. To import a new connection entry profile from a file, either display the Connection Entries menu and choose Import (as shown below) or click the Import icon on the toolbar above the Connection Entries tab. The VPN Client displays the **"Import..."** VPN Connection dialog box.

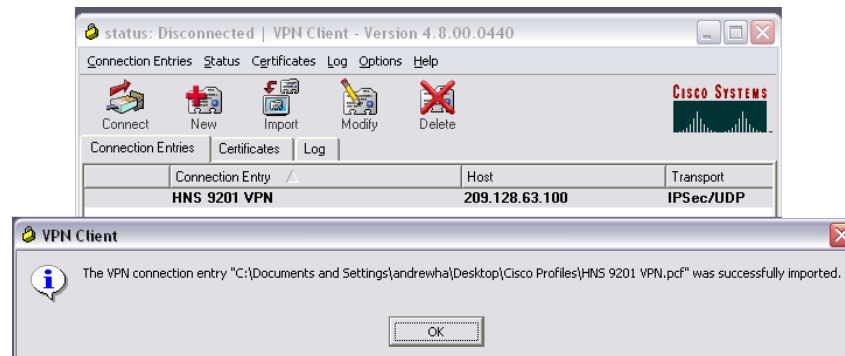


Type the file name (it will have .pcf extension) in the File name box or browse to find the file you want to import. The default Windows path for the Cisco VPN Client is:

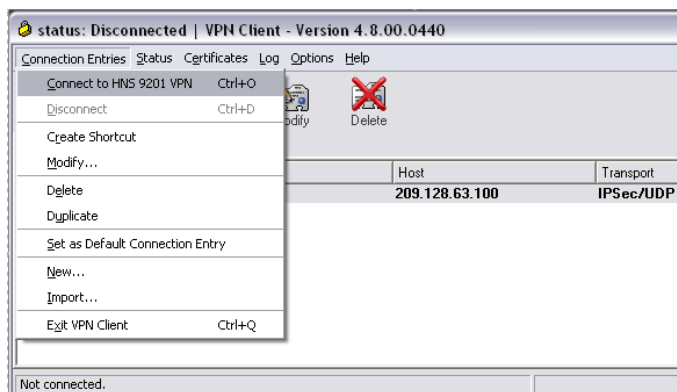
**C:\Program Files\Cisco Systems\VPN Client\Profiles**



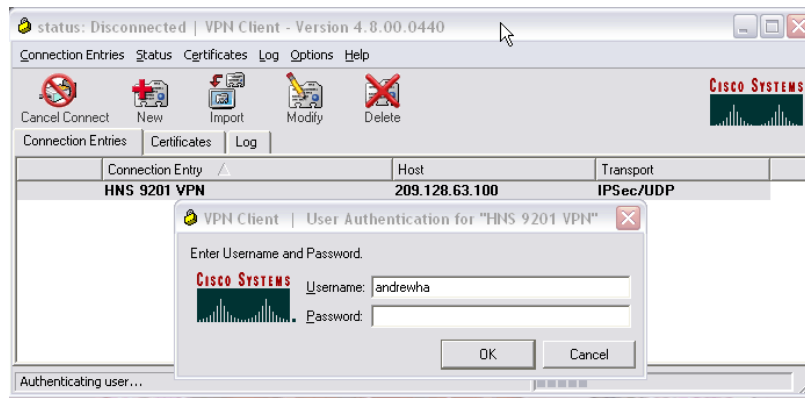
The Cisco VPN Client will display a message to inform you that the import action succeeded. It will place the imported profile in the Cisco Systems\VPN Client\Profiles directory. You are now ready to use the Cisco VPN Client.



Once your computer is connected to the Internet via your EXPLORER 700 terminal, you can then click on the **"Connect"** icon.



After a few seconds you will be prompted for a username and password.



The password may be a combination of a personal numbers and the code generated numbers in the Secure Token.

You can confirm the format of the password with your Network Administrator. After authentication and exchange of security policies the window will disappear and a small lock will be shown in you status window.



You are now connected to you corporate network via your Cisco VPN tunnel. You data traffic will transverse the VPN tunnel as if you were sitting on your local LAN.



## Tested

All tests performed on a Standard and Streaming Data connection:

1. Simultaneous Standard Voice and Standard Data
2. Chat
3. E-mail
4. File Transfer

## Vendor

### Contact Details

Support: [http://www.cisco.com/web/about/ac49/ac162/about\\_cisco\\_customer\\_service\\_contacts.html](http://www.cisco.com/web/about/ac49/ac162/about_cisco_customer_service_contacts.html)  
Sales: [http://www.cisco.com/en/US/ordering/or13/or8/order\\_customer\\_help\\_how\\_to\\_order\\_listing.html](http://www.cisco.com/en/US/ordering/or13/or8/order_customer_help_how_to_order_listing.html)  
Web site: <http://www.cisco.com/>

## Stratos

### Contact Details

Web site: <http://www.stratosglobal.com>

