A large background image showing a globe with a wireframe overlay, set against a light blue and white background. A red vertical bar is on the left side of the image.

iPassConnect™ 3.35 for Windows User Guide

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Every effort has been made to use fictional companies and locations in this manual. Any actual company names or locations are strictly coincidental and do not constitute endorsement.

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)

Getting Started

Welcome to iPassConnect™ 3.35 for Windows! This guide will serve as an introduction to the use of iPassConnect, providing you with information on installation, configuration, basic and advanced usage.

iPassConnect is an easy-to-use desktop client that allows remote users to connect to the Internet and enterprise resources through iPass' global network of providers. In addition, iPassConnect can be customized to automatically launch other programs such as a VPN, personal firewall, or Web browser.

System Requirements

Minimum Hardware Requirements

- Pentium III processor
- 256 MB RAM
- 100 MB free disk space
- TCP/IP Protocol
- 16-bit color mode
- At least one connectivity device installed, depending on your intended connection type:
 - GSM modem for GSM connections
 - ISDN terminal adapter for an ISDN connection
 - 56K v90/92 modem for a dial-up connection
 - PHS phone for PHS connections
 - Wi-Fi adapter for a Wi-Fi connection
 - Ethernet adapter for a wired broadband connection
 - Mobile Data card for a Mobile Data connection (requires a fully-provisioned account with a Mobile Data service provider)

Operating System Requirements

iPassConnect 3.35 is supported on Microsoft Windows 2000 SP 4 or later, and Windows XP Home or Professional SP 1 or later. iPassConnect has also been tested on Windows XP Professional SP 2.

iPass strongly recommends that you install critical Windows updates, and preferably all Microsoft-recommended updates, for your operating system.

Optional Hardware Supported in iPassConnect 3.35

Wireless Cards

An 802.11x wireless card is needed for Wi-Fi connections. The table on the following page displays the wireless cards that have been successfully tested for connectivity on the iPass network using iPassConnect 3.35.

iPass-Supported Wireless Cards

Card	Firmware	NDIS
3Com 802.11 a/b/g 3CRPAG175 Wireless LAN PC Adapter	1.0.0.25	
Cisco Aironet 350 Wireless Adapter (802.11b)	V4.25.30	V7.29
Cisco Aironet 340 Wireless Adapter (802.11b)		V6.64
Cisco Aironet 802.11 a/b/g Wireless Adapter		1.0.0.305
D-Link Air DWO-650	2.0.10.0	
IBM 802.11 a/b/g Wireless CardBus Adapter	2.4.1.21	

Card	Firmware	NDIS
Intel Centrino Mini-PC Card		
Intel Pro/Wireless 2011 (802.11b)		V4 or V5
Intel Pro/Wireless 2011B (802.11b) (New Intel Proset)		
Intel Pro/Wireless 5000 LAN Cardbus Adapter (802.11b)	V1.0.10	
Linksys Wireless USB Adapter (802.11b)	V2.5	
Linksys Dual-Band Wireless A+G Notebook Adapter	2.4.2.33	
Lucent Orinoco 802.11b PC Card Gold World Card PC24E-H-FC	7.14.01	
Microsoft USB 802.11b Adapter (for Desktop PCs)	V1.31.9.0	4.10.2222
Microsoft Wireless Notebook Adapter MN-720		3.20.26.0
Microsoft Wireless USB 2.0 Adapter MN-710		1.0.8.0
Nokia C110/C111 Wireless Adapter	V0.0.104.0	
Orinoco 802.11ag ComboCard Gold		2.3.0.75
Orinoco 802.11ag ComboCard Silver		2.3.0.75
Toshiba Wireless LAN mini PCI Card		1.0.8.0

Mobile Data Cards

The following cards have been successfully tested with iPass Mobile Data. Each table shows the card make and model, the frequency bands in which the card operates, the network type, and the operators and regions where the card was tested.

Note: To make use of iPassConnect Mobile Data connectivity, you will need a provisioned account with a third-party Mobile Data provider and a supported Mobile Data PCMCIA card. iPassConnect does not include Mobile Data card drivers. Your card drivers will be installed when you install and activate your account with your Mobile Data carrier. Your card should be fully installed and tested for connectivity with your carrier's network, using your carrier's client, before attempting to use it with iPassConnect.

GPRS (includes EDGE and UMTS)

Card	Bands	Network Type	Operator: Regions Tested
Sony Ericsson GC-82	850 MHz 1900 MHz	GPRS, EDGE	AT&T: USA Cingular: USA
Sony Ericsson GC-83	850 MHz 1800 MHz 1900 MHz	GPRS, EDGE	AT&T: USA Cingular: USA Roaming in UK, Germany, France
Sierra Wireless 750	900 MHz 1800 MHz 1900 MHz	GPRS	O2: UK T-Mobile: USA AT&T: USA
Option Globetrotter Tri-band	900 MHz 1800 MHz 1900 MHz	GPRS	Vodafone: UK, Germany, France and US O2: UK Orange: UK, France
Vodafone Option 3G	900/1800 MHz for GPRS, 2200 MHz for UMTS	GPRS, UMTS	Vodafone: UK, Germany, France

CDMA (includes 1xRTT, CDMA2000)

Card	Bands	Network Type	Operator: Regions Tested
Sierra Wireless 555D	1X 800 1X 1900	1XRTT, CDMA2000	Verizon Wireless: USA Telecom New Zealand: NZ
Sierra Wireless 550	1X 1900	1XRTT CDMA2000	SprintPCS: USA

Third-Party Integration

iPassConnect 3.35 supports integration with the following tested third-party products, using the version listed or later versions.

VPNs

- Aventail VPN version 5.3.1
- Check Point AI R55
- Cisco Systems VPN Client version 4.0.4b
- NCP VPN version 8.0
- Nortel Contivity version 4.65.18
- PPTP (as shipped with the Windows OS)

Anti-Virus Applications

- Network Associates McAfee VirusScan Enterprise version 7.1
- Symantec Norton AV Corporate Edition version 9.0
- Trend Micro OfficeScan Corporate Edition version 5.58

Personal Firewalls

- ISS RealSecure (Black ice) version 7.0ebo
- Sygate Secure Enterprise version 3.5
- ZoneAlarm Pro – Integrity Desktop (ZAP1D) version 4.5

Installation

Your system must meet system requirements (specified on page 5) or the iPassConnect installer will prevent the installation from occurring.

You must also have local administrator rights in order to perform the installation.


To install iPassConnect:

1. Download the software installation package from your company intranet or service provider Web site.
2. Double-click the downloaded file.
3. Follow the installation directions.

Uninstalling iPassConnect

You must have local administrator rights in order to uninstall iPassConnect.

To uninstall iPassConnect:

1. Right-click the Windows System Tray icon  and choose **Exit**.
2. From the Windows Start Menu, open **Start→Settings→Control Panel**.
3. Select **Add/Remove Programs**.

4. Select **iPassConnect** from the list.
5. Click **Add/Remove**.
6. Windows will uninstall the iPassConnect software.

Upgrading To iPassConnect 3.35 from a Previous Version

You must have local administrator rights in order to upgrade to iPassConnect 3.35 from a prior release. Once upgrade has taken place, any user (such as a Power User or Restricted User) will be able to upgrade from 3.35 to another release and realize the full functionality of iPassConnect 3.35.

Setting Up

Before using iPassConnect, you should configure your basic settings, which include login information, connection settings, and configuration for any personal Wi-Fi network.

Login Information

iPassConnect can store your login credentials, making it easier and faster for you to log in. You will generally only need to enter this information prior to using iPassConnect for the first time.

- A valid iPass password must be an alphanumeric string, 15 characters or less in length.
- You should verify with your Help Desk whether you will need separate credentials for Internet access and for VPN access.

To set your login credentials:

1. On the **Settings** menu, select **Login Information**.
2. Under **Internet Credentials**, type your Internet user name and password.
3. If you want iPassConnect to store your Internet password, check **Save Password**.
4. If required, in **Dept/Project**, type your department or project name. (Check with your help desk to see if this is required to log in.)
- 5a. If you will use a VPN to connect to your organization's resources, and your VPN credentials are identical to your Internet credentials, check the **Same As Internet Credentials** checkbox. Then, in the **NT Domain** name box, type the name of your NT domain and proceed to Step 5.
- OR-
- 5b. If your VPN credentials differ from your Internet credentials, make sure the **Same As Internet Credentials** checkbox is unchecked. Then, type your VPN user name, your NT domain name, and VPN password.
6. From the **Default Country** drop-down list, select the country you wish to appear as the default in the **Country** filter on the main iPassConnect dialog box.
7. Click **OK**.

Dial Properties

Dial properties are required settings for your dial-up connection, such as a number needed to access an outside line, or to disable call waiting. If you're a dial-up user (which includes modem, PHS, GSM PHONE and ISDN connections), it's important to set your dial properties correctly. (You won't need to set dial properties if you are using a broadband connection like DSL or Wi-Fi.)

Your *dial string* is the phone number you're dialing, plus any additional numbers set from your dial properties. For example, if you are dialing the local number 555-1212, and you need to dial a 9 to access an outside line, plus *70 to disable Call Waiting, then your dial string would be: 9, *70, 555 1212. Different access points can have different dial properties.

To set your dial properties:

1. On the **iPassConnect** dialog box, click the **Dial Properties** button.
2. Under **General**, in the **To access outside line** dial text box, type any dial prefix you may need (such as 9) to get an outside line.
3. If you wish to disable Call Waiting, in the **To disable Call Waiting dial** box, select the characters needed from the drop-down list.
4. In **Dial Using**, select whether your phone system uses tone or pulse dialing. (Most phone systems use tone dialing.)

5a. Under **Dialing From Location**, if this will be the same location as the one you are connecting to, check **Same Location** and proceed to Step 6.

-OR-

5b. Under **Dialing From Location**, if this will be a different location from the one you are connecting to, uncheck the **Same Location** checkbox. Then:

- Select the country from which you are dialing from the **Country** drop-down list.
- In **Area Code**, type the area code you wish to dial.
- From the **Area Rule** drop-down list, select a rule that reflects your local area's dialing rules (for example, dialing a 1 before the area code).
- Proceed to Step 6.

6. If you will be using a calling card for dialing, under **Calling Card**, type the calling card information.

7. Click **OK**.

8. The complete dial string appears at the bottom of the main iPassConnect dialog box next to the **Dial Properties** button. You are now ready to connect.

Wi-Fi Connection Settings

iPass Network Hotspots

When you try connecting at an iPass-enabled Wi-Fi hotspot, your Wi-Fi settings will be configured automatically when iPassConnect detects the hotspot. However, you may need to configure a WEP key (Wireless Equivalent Privacy) key for security purposes when connecting. (See *Auto-Detection* on page 11 for more information.)

To enter the WEP key for an iPass hotspot,

1. In the Phonebook, click the network name and then click **Connect**.
2. When prompted, in **WEP Key**, type your network WEP key.
3. Click **OK**.

Non-iPass Network Hotspots

If you are using a personal or other non-iPass Wi-Fi network, you must manually configure your wireless settings before connecting.

Check with your Help Desk to determine your organization is capable of connecting to personal or non-iPass networks.

To configure your Wi-Fi settings for a personal or other non-iPass Wi-Fi network:

1. Select **Settings > Connection Settings**.
2. Click the **WLAN** tab.
3. Under **Device Settings**, in **Device**, choose your Wi-Fi device from the drop-down list.
4. Under Personal Networks, click **Add**.
5. Under **Settings**, in **SSID**, type the network's Service Set Identifier in **Network (SSID)**, or click **,,,** to browse the nearby networks.
6. If the network uses WEP, select **Enable WEP**. Otherwise, click **OK** to close the dialog box and skip to Step 8.
7. In **WEP Key**, type the network WEP key.
8. Click **OK**.

- All detected networks, whether configured or not, will be listed under **Available Wireless Networks**.
- There is no limit to the number of personal networks that may be defined.
- You cannot edit a network SSID. If you need to modify it, delete and then re-add the network under the new SSID.

Mobile Data Settings

Your Mobile Data account must be provisioned with a carrier network before attempting to use a Mobile Data card with iPassConnect.

Discovery

iPassConnect will automatically search for your system's Mobile Data cards whenever one of the following happens:

- iPassConnect is installed on your computer
- You install or insert a Mobile Data card in your computer.

When it finds your devices, it will attempt to automatically record the settings that each card contains, such as your user credentials, and use them when you attempt to connect. For some cards, however, you must manually prompt iPassConnect to locate these settings.

To manually discover your Mobile Data settings:

1. On the **Settings** menu, click **Connection Settings > Mobile Data**.
2. Click **Refresh**. iPassConnect will attempt to locate your Mobile Data device and record its settings.
3. Click **OK**.

Manual Configuration

In some cases, your card may not contain all of the information that iPassConnect requires, and you may be required to configure some of the settings manually in order to successfully connect. Contact your IT administrator for additional details.

To edit your Mobile Data settings,

1. On the **Settings** menu, click **Connection Settings > Mobile Data**.
2. Edit the settings as needed, and then click **OK**.

Connecting and Disconnecting

This section outlines wireless auto-detection, connecting, and disconnecting.

Auto-Detection of Available Wireless Networks

If your computer is properly equipped, iPassConnect will automatically detect both local Wi-Fi hotspots and Mobile Data wireless networks and display them. Auto-detection is also sometimes referred to as *sniffing*.

Wi-Fi

If Wi-Fi card is installed in your computer, iPassConnect will automatically try to detect any nearby iPass-enabled wireless hotspots for you. If found, iPassConnect will display them first in the Phonebook under **Available Wireless Networks**.

If enabled, iPassConnect may also display detected non-iPass networks. Check with your Help Desk to determine your organization is capable of connecting to non-iPass networks.

Auto-detection of an iPass-enabled Wi-Fi hotspot will automatically configure all of your Wi-Fi settings, such as SSID and WEP key. You will only need to configure Wi-Fi settings manually if you use a home or personal Wi-Fi network. See page 10 for more information.

Mobile Data

If a supported and provisioned Mobile Data card is installed in your computer, and there is a local Mobile Data network detected, iPassConnect will also display it under the Wi-Fi hotspots shown in **Available Wireless Networks**.

The settings required to connect to a Mobile Data network are usually automatically configured when your Mobile Data card is installed and your account is activated with your carrier network. However, manual configuration may be needed for some cards. See page 10 for more information.

Connecting with iPassConnect

To connect using iPassConnect:

1a. Use Available Wireless Networks: If a Wi-Fi card is installed in your computer, and there are any local iPass-enabled hotspots detected nearby, iPassConnect will display them first in the Phonebook under **Available Wireless Networks**, in order of signal strength.

If a Mobile Data card is installed in your computer, and there is a local Mobile Data network detected, iPassConnect will display it in **Available Wireless Networks**.

Click the name of a network to connect to, and then proceed to Step 5.

-OR-

If there are no available wireless networks listed, proceed to Step 1b to locate a nearby access point by location, or to Step 1c to locate a nearby access point by phone number.

1b. **Search by Location:** Under **Search by Location or Phone Number**, select the filter criteria you will use from the drop-down lists. Each filter criterion will narrow your search for an access point to a more specific location. You can make the search as broad or narrow as you need.

For example, to see all the access points in a country, select that country from the **Country** drop-down list.

- To narrow the search to a specific state or province in that country, select the state or province from the **State (Province)** drop-down list. (**State/Province** search is not enabled for some countries.)
- To narrow the search even further to a specific city, select the city from the **City** drop-down list.

Enter your location criteria, and then proceed to Step 2.

-OR-

1c. **Search by Number:** Alternately, if you are searching for a US dial-up access point, in the **Country** drop down list, select *United States*. Then, under **Enter a local phone number**, in the **Area Code** and **Phone Number** text boxes, type the area code and exchange (first three digits) of your location. Proceed to Step 2.

2. **Find:** Click **Find**. The access points matching your search criteria will be displayed in the Phonebook.

3. **Select Your Connection Type:** The Phonebook now displays a number of access points for each connection type. For example, **Modem (25)** shows there are 25 available access points for which you can use a modem connection. Click the right arrow, also called a *norgy*, next to the connection type to show the locations available.

4. **View Access Points:** If you searched by location in Step 1, the expanded list under the connection type now displays a set of locations and the number of access points of that type in each location. For example, under **Modem (25)**, the notation **Townsville (5)** shows there are 5 modem access points in Townsville. Click the right arrow to expand the list further and show each access point. (If instead you searched by number in Step 1, no location names will be shown, but all local numbers will be displayed.)

5. **Select an Access Point:** From the list of access points, click the access point you wish to connect to.

6. **Connect:** Click **Connect**. You will be connected to the iPass network. (You may be requested to enter user credentials or a VPN gateway to connect to.)

Search Tips

- If you change the search criteria to look for a new access point, click Find in order to refresh the access points shown in the Phonebook.
- Your last search criteria will be saved when you exit iPassConnect, and will be displayed the next time you start iPassConnect. If you wish to start a new search, click **Clear** and return to Step 1.
- When searching by number, you can enter 800 to search for local access points in the toll-free 800, 855, 866, 877 and 888 area codes.

Integrated Solutions


iPassConnect can be integrated with several types of security solutions, such as a virtual private network (VPN), personal firewall (PFW) and antivirus software. An integrated solution means that iPassConnect works alongside the security software to ensure a safe, secure Internet connection.

- *Auto-connect integration:* in Auto-connect integration, clicking the iPassConnect icon also launches the security solution upon connecting to the Internet. No further action need be taken by you.
- *Auto-launch integration:* in Auto-launch integration, iPassConnect will automatically launch the integrated security software after connecting to the Internet. However, you will need to enter a separate user name and password in addition to the credentials used to connect to the iPass network. Commonly used with a VPN, you can set up your VPN credentials in the Login Information dialog box.
- *Auto-teardown:* the auto-teardown feature ensures that if the security solution is terminated, your Internet connection will automatically be closed safely. For example, if your personal firewall stops working, iPassConnect will automatically disconnect.
- *Home Broadband:* If you're a home broadband user who is already connected to the Internet (such as through cable modem or DSL), you can use iPassConnect to launch your integrated solutions across your Internet connection.

Consult your Help Desk for details on how iPassConnect has been configured to integrate with your security solutions.

Disconnecting from the iPass Network


To disconnect from the iPass network,

1. In your Windows System Tray, right-click the iPassConnect icon .
2. Select **Disconnect**. You will be disconnected from the iPass Network. iPassConnect will remain running in the Windows System Tray.
3. *Alternately*, you can choose **Disconnect and Exit** to disconnect from the iPass Network and exit the application.

Note that even if you disconnect from the iPass network, iPassConnect will still run in the background, and can be accessed using the Windows System Tray.

Exiting iPassConnect

To exit iPassConnect,

1. Right-click the iPassConnect icon  in your Windows System Tray.
2. Select **Exit**.

Help

You can get help on iPassConnect by pressing the **F1** key, or by selecting **Help > Help Topics**.


Additional Features

iPassConnect contains a number of additional features to make your connection experience quicker and easier.

Bookmarks

The **Bookmarks** menu allows you to conveniently save and re-use connection information for access points you use most frequently.

To bookmark an access point:

1. Select an access point as you would normally.
2. Select the access point, and then click the **Add Bookmark** button.
3. On the **Add Bookmarks** dialog box, type the Bookmark details, such as a Bookmark name and other data. Note that you can enter the dial properties for the bookmarked access point as well.
4. Click **OK**. In your Phonebook, the  symbol indicates that you've bookmarked the access point.

- *For dial-up connections, in addition to bookmarking individual access points, you can also bookmark all the dial-up access points in a city. You can then use the Bookmark to connect to that city, as described in *Connecting at the City Level* on page 18.*
- *You may not bookmark a Mobile Data network connection.*

To connect using an existing bookmark:

1. On the **Bookmarks** menu, select the access point you wish to use.
2. If the Bookmark is a single access point, iPassConnect will attempt to connect to the access point. If the Bookmark is a city, iPassConnect will dial all the dial-up access points in that city until a connection is made as described in *Connecting at the City Level* on page 18.

Because the iPass network is constantly evolving and growing, you may occasionally find that a Bookmark points to an obsolete access point. If you attempt to connect to a bookmarked access point that is no longer valid, iPassConnect will search for an access point with a similar location and connection type and offer to connect you. You will also be presented with a chance to substitute the new access point for the old one as a permanent Bookmark.

To modify a bookmark:

1. On the **Bookmarks** menu, click **Edit Bookmark**.
2. On the **Edit Bookmark** dialog box, select the Bookmark you wish to edit and click **Modify**.
3. On the **Modify Bookmark** dialog box, type the new or revised information as needed.
4. Click **OK**, and then click **OK** on the **Edit Bookmark** dialog box.

To delete a bookmark:

1. On the **Bookmarks** menu, click **Edit Bookmark**.
2. On the **Edit Bookmarks** dialog box, select the Bookmark you wish to remove and click **Delete**.
3. Click **Yes** to confirm deletion.

Home Broadband Connection

You can use iPassConnect to connect to the iPass network using an existing wired broadband Internet connection, such as DSL or cable modem. In this case, iPassConnect does not connect to the Internet, since your broadband connection is already connected, but iPassConnect will launch your VPN and other

integrated applications like your personal firewall. This ensures a secure connection to your corporate resources.

Although this is referred to as a *Home Broadband* connection, it can include any pre-existing Internet connection, such as a connection over an office LAN.

To connect using a Home Broadband connection,

1. Make sure your wired broadband connection is already connected to the Internet.
2. Connect your computer to the wired broadband connection, such as your DSL modem. (Consult your broadband documentation for instructions.)
3. Launch iPassConnect.
4. In the Phonebook, under **Home Broadband**, click **Use Existing Internet Connection**.
5. Log in to the iPass network as usual. iPassConnect will launch your VPN and any other applications that are integrated with iPassConnect.

To disconnect iPassConnect from a Home Broadband connection, right-click the System Tray icon and choose **Disconnect**.

Launching Programs after Connecting

You can configure iPassConnect to launch other programs automatically after connecting to the iPass network. For example, you can launch your Web browser or other programs, such as a VPN client or personal firewall, by adding them to the launch list.

To configure iPassConnect to launch your computer's default Web browser upon connection:

1. Select **Settings > Connection Settings**.
2. Click the **General** tab.
3. Under **After Connecting**, check **Default Web Browser**.
4. Click **OK**.

To configure iPassConnect to launch other programs upon connection:

1. Select **Settings > Connection Settings**.
2. Click the **General** tab.
3. Under **After Connecting**, in **Launch Programs**, click **Add**.
4. On the **Add/Edit Post-Connection Program** dialog box, under **Location**, click **Browse**.
5. Browse to the program you wish to launch after successful connection and click **Open**.
6. In **Description**, type a brief description of the program to run. For example, if you launched your e-mail program upon connecting, you might type "My E-mail".
7. If you want to launch other programs, continue to add programs as desired to the list by following steps 3-6. (You can also come back later and add more programs, if desired.)
8. When done, click **OK**.

To modify an entry in the list of launched programs:

1. Select **Settings > Connection Settings**.
2. Click the **General** tab.

3. In **After Connecting**, under **Launch Programs**, select the name of the program you want to change and click **Modify**.
4. On the **Add/Edit Post-Connection Program** dialog box, type a revised description, or browse to a new location for the program.
5. Click **OK**.

To delete a program from the list:

1. Select **Settings > Connection Settings**.
2. Click the **General** tab.
3. In **After Connecting**, under **Launch Programs**, select the program you want to delete from your list of automatically launched programs.
4. Click **Delete**. (Note that this procedure does not delete the program from your computer, just from your list of automatically launched programs.)
5. Click **OK**.

Updating iPassConnect

You can manually update iPassConnect to make sure you have the most current Phonebook and software. Note that you must be connected to the Internet in order to perform an update. After updating, you will need to restart iPassConnect in order for the changes to take place.

To update the iPassConnect software or Phonebook:

1. Connect to the Internet using iPassConnect.
2. On the **Settings** menu, select **Software Update**. Next to **Software Update**, iPassConnect will display the time and date of that item's most recent update. For example, **Software Update (Thu Feb 13 2004 09:00:00)** indicates that your last update was performed on Thursday, February 13th, 2004 at 9 AM.
3. iPassConnect will contact the update server, then download and install the most recent update.
4. Follow the prompts to install your updated software.

Automatic Updates: *iPassConnect will also automatically check at periodic intervals see if there are any updates available. If so, you may be prompted to download and install the update. You can also choose to defer an update for up to 15 days. At the end of that time, iPassConnect will automatically update.*

Advanced Dial-up Features

These features apply to dial-up (modem, PHS, GSM or ISDN) connections only.

Smart Redial

By using the Smart Redial feature with dial-up connections, iPassConnect will automatically continue dialing all access points within the same city until a successful connection is made.

To activate the Smart Redial feature:

1. Select **Settings > Connection Settings**.
2. Depending on your connection type, select either the **Dial-up** tab (for a modem, PHS or GSM connection) or **ISDN** tab (for an ISDN connection).
3. Under **Redial Settings**, check **Smart Redial**.

4. Click **OK**.

In most cases, Smart Redial is turned on by default. If possible, iPass recommends you turn it on to enhance your dial-up connection experience.

Busy Number Redial

The Busy Number Redial feature, used for dial-up connections, allows you to configure iPassConnect to retry a busy access point if a connection attempt fails. This feature is useful when using a bookmarked access point, or when roaming in areas where there are few access points and heavy Internet traffic.

To configure iPassConnect to redial a busy access point:

1. Select **Settings>Connection Settings**.
2. Depending on your connection type, select either the **Dialup** tab (for modem, GSM and PHS connections) or **ISDN** tab (for ISDN connections).
3. Under **Redial Settings**, in the **Redial Attempts** text box, enter the number of connection attempts you want iPassConnect to make.
4. In the **Redial if not connected within** text box, enter the amount of time (in seconds) you want to elapse between each dial attempt. This should be set to a minimum of 120 seconds in order to give each dialing attempt time to finish.
5. Click **OK**.

The Busy Number Redial feature, which will redial a busy number, may be incompatible with the Smart Redial feature, which will cause iPassConnect to roll over to the next access point upon a failed connection attempt. Whenever possible, for greater reliability, you should give preference to Smart Redial.

Connecting at the City Level

If you're using a dial-up connection (modem, PHS, GSM or ISDN) you don't need to select an individual access point to connect to the iPass network. Instead, you can also have iPassConnect attempt to connect to a set of access points in a city, one after another, until you're connected. This is helpful if you don't have a particular access point in mind but simply wish to connect to any nearby one.

You can configure dial properties at the city level, too. For more information, see *Dial Properties*, page 9.

To connect at the city level:

1. Select an access point like you would normally, either by location or by phone number.
2. Under **Modem, PHS, GSM** or **ISDN**, double-click the name of the city you wish to connect to. iPassConnect will attempt to dial the optimal access point in that city.
3. If Smart Redial is turned on, and iPassConnect fails to connect to the first access point, it will dial the others in that city until it connects. If Smart Redial isn't turned on, and iPassConnect fails to connect, iPassConnect will attempt to redial the first access point based on the settings described under *Busy Number Redial* on page 18.

To bookmark a city:

1. Select a country and city as you would normally.
2. Under **Modem, ISDN, GSM** or **PHS**, click the city name, and then click the **Add Bookmark** button.
3. On the **Add Bookmarks** dialog box, type the bookmark details, such as a Bookmark name and other data. Note that you can enter the dial properties for the bookmarked connection as well.

4. Click **OK**. In your Phonebook, the ribbon  symbol indicates that you've bookmarked the city.

Some enterprises may disable dialing of individual access points and only enable city-level dialing. Check with your Help Desk for details.

Using a Calling Card

If you wish to use a calling card for a dial-up connection, you can store the information for a single calling card in iPassConnect.

To store calling card information:

1. On the main iPassConnect dialog box, locate an access point as usual, and click **Dial Properties**.
2. Under Calling Card, select the Use Calling Card checkbox.
3. Click the **Calling Card** button.
4. On the **Calling Card** dialog box, in the **Dial Sequence**, type the phone number to dial for the calling card and/or any of the symbols shown here. You may type any combination of symbols and numbers provided they follow the format outlined on your calling card. For example, if the instructions for your calling card read “Dial 1 800 555 5050 + PIN + area code + phone number”, your dial sequence would be 1 800 555 5050 HFG. **Note:** To view the list of symbols in iPassConnect, click the **Symbols** button.
5. In **PIN**, type your calling card Personal ID Number.
6. Click **OK**.
4. Click **OK** on the **Edit Bookmark** dialog box.

Symbol	Meaning
E	Country code
F	Area code
G	Phone number
H	Card number (PIN)
P	Pulse-dial subsequent numbers
T	Tone-dial subsequent numbers
W	Wait for second dial-tone
,	Pause (approx. 1 second)
!	Flash
@	Wait for quiet answer
\$	Wait for calling card prompt tone
?	Wait for user input


POP Details

POP (Point of Presence) is another term for an access point. You can display the details of any POP, which can include:


- *Location:* location of the POP.
- *Address:* the physical address of the site.
- *Phone Number:* the phone number at which you can contact the site.
- *Maximum Speed:* if this is a dial-up POP.
- *Connection Price:* if known, the hourly connection rate.
- *POP Type:* the connection type possible at this access point.
- *SSID (Service Set Identifier):* for Wi-Fi broadband POPs.
- *Signal Strength:* for Wi-Fi broadband POPs.


Note that depending on your Phonebook and the type of access point, not all POPs will display all of this information.

To display POP details:

1. Search for an access point as usual.
2. In the Phonebook, on the line belonging to the POP, click the  icon in the **Info** column.
3. When done, click **OK**.

The System Tray Icon

To...	Right-click the  icon and select...
open iPassConnect (when not already connected)	Open iPassConnect
exit iPassConnect	Exit
connect to the iPass network	Connect
connect to a Bookmark	the name of the Bookmark
update iPassConnect	Update
disconnect from the iPass network	Disconnect
disconnect from the iPass network and exit the application	Disconnect and Exit

When iPassConnect is running, you'll see an iPassConnect  icon in the System Tray on the right side of your Windows taskbar. You can use this icon to accomplish a number of program functions.

Windows Prelogon

If the prelogon functionality is enabled, iPassConnect takes the place of your regular Windows logon. Check with your Help Desk to see if Windows prelogon is enabled for your enterprise.

To log on to your computer using iPassConnect:

1. At the Windows logon screen, type your iPassConnect username and password.
2. Check **Login Using iPassConnect**.
3. Click **OK**. iPassConnect will then log in to the iPass network and connect you to the Internet before logging you on to your local machine.

If this function is enabled, your iPassConnect login credentials (user name and password) must match your Windows logon credentials. Note that an iPass password must be 16 characters or less in length.

Logoff on Connect

Logoff on Connect is configurable for clients integrated with the Nortel Contivity VPN client. It allows you to use your Nortel VPN client to securely log in to the Internet and then your local system. (Check with your Help Desk to see if Logoff on Connect is enabled for your enterprise.)

To use Logoff on Connect,

1. **At the Windows login screen**, log into your computer normally.
2. **Connect using iPassConnect**. iPassConnect connects you to the Internet and launches the Nortel VPN client. You will be authenticated to the iPass network. Upon successful authentication, the Contivity VPN logs you off your local computer but you remain connected to the Internet and your corporate LAN.

3. **Log in again.** The Windows login screen will be presented again. Press Ctrl-Alt-Del to log in and enter your login credentials. On this subsequent login, you are authenticated by the domain controller over the Nortel VPN connection. You are then connected to the local system, the corporate LAN, and the Internet. iPassConnect will appear in the Windows System Tray, as usual.

Troubleshooting

If you have trouble connecting to the iPass network, these troubleshooting tips may prove helpful to resolve your issue. These tips should be considered suggestions only. Please contact your Help Desk for further assistance.

Troubleshooting Tips and Hints

General Connection Tips

These tips apply to connections in general using iPassConnect.

Difficulty Connecting To the Access Point

- The access point you are connecting through may be inactive or temporarily unavailable. Try another access point in the area.
- Bookmarks are not updated when you update your Phonebook. You may be using an outdated access point that you have bookmarked. If this is the case, update the Phonebook in iPassConnect and/or choose a new access point.
- Verify that your dial properties are entered correctly. You may need to change your settings if you are attempting to connect from a different location than the last time you used iPassConnect.
- Verify that you have the correct hardware for the access type selected. For instance, you must use a Wi-Fi card to access a Wi-Fi access point.

No Access Point in Your Location

- In some instances, you may not find a particular city listed in the Phonebook, but there might be access points that are local or close to where you are.
- If possible, try connecting through an alternate access type. For example, broadband users without local access to broadband may be able to find a local dial-up connection.
- If you are in the United States, check if there are other cities within the same area code, which might be local.
- In some countries, there may be All-Cities listings or Toll Free listings. All Cities access points have local rates and are therefore usually less expensive. Toll Free access points are not local and usually yield a higher connection charge for you or your company. When in the United States, entering 800 to search by number will also list access points in the toll-free 800, 855, 866, 877 and 888 area codes.
- Check in-country rates with the local operator for a non-local access point. In many countries, it is very inexpensive to dial long-distance within the country.

Incorrect Password

- Re-enter your username, domain name and password.
- Password entry is case-sensitive. Make sure the CAPS LOCK key is not depressed.
- Make sure you have entered the domain name, such as domain.com, in the **Domain** field of your **Login Info**.
- It is possible that the authentication server or the iPass RoamServer at your ISP or company may be down or offline. Check with your Help Desk.
- Your user account may no longer be active. Check with your Help Desk.
- The access point you are connecting through may be inactive or temporarily unavailable. Try another access point in your area. The iPass network offers multiple access points in worldwide locations.

Password Authentication is Slow

- In some areas, it may take up to 120 seconds or more to connect. Do not click the **Cancel** button prematurely.
- Generally, the further away from home you are, the longer the authentication process will take. Check **Settings>Connection Settings**, and click the **Dialup** tab. Ensure that the option **Redial if not connected in... seconds** is set to 120 seconds. If this doesn't work, you may also try setting this to a higher number of seconds, up to 180.
- It is possible that the authentication server or the iPass RoamServer at your ISP or company may be down or offline. Check with your Help Desk.

Recovering from Problems with Windows Prelogon

- If you are able to log on to your system, use `regedit` to delete the following value from the Registry:

`\HKEY_LOCAL_MACHINE\Software\Microsoft\WindowsNT\CurrentVersion\Winlogon\GinaDLL`

- If you are not able to log on to fix the problem, you can recover by doing one of the following:
 - If the test machine is on the network and you have an account on another machine with Administrative privileges on the test machine, open the test machine registry remotely with `regedt32` and delete the `GinaDLL` value.
 - If the test machine is on the network, and `%systemroot%\SYSTEM32` is available on a network share for that machine (for example, `\\<name>\c$`), rename `IPGina.dll` to something else with a command like: `ren`
`\\<name>\c$\winnt351\system32\IPGina.dll gina.sdk`
 - Reboot the test machine.
 - Delete the `GinaDLL` value from the registry.
 - If the test machine will dual boot to another version of Windows NT or another operating system capable of accessing `%systemroot%\system32`, boot to that operating system, delete `%systemroot%\system32\Gina.dll`, reboot, and delete the `GinaDLL` value from the registry.
- If these suggestions fail to resolve the issue, consult the following URL:
<http://support.microsoft.com/default.aspx?scid=kb;EN-US;302346>

Dial-up Troubleshooting Tips

These tips apply to dial-up (modem, PHS, GSM and ISDN) connections.

Difficulty Connecting To the Access Point

- Make sure you've set dial properties for the required prefixes and local dial code for the region. Many hotels require you to dial additional characters to reach an outside line.
- Pick up the phone and dial the phone number of the access point manually. You may hear a message explaining the problem. For example, the hotel switchboard may be overloaded, or you may be required to dial a 9 to get an outside line.
- The access point you are connecting through may be inactive or temporarily unavailable. Try another access point in the area. The iPass service offers multiple access points in major business centers.
- You may be attempting to connect to a bookmarked access point that is now outdated. Try choosing a new access point.
- Verify that your dial properties are entered correctly. You may need to change your settings if you are attempting to connect from a different location than the last time you used iPassConnect.

- Never manually enter the access point phone number in the **Dial String** box, even if you have memorized the number. Always use the procedures outlined in this help file to connect.

No Dial Tone

- Check that there is a working phone line by connecting a phone to it and dialing out.
- Make sure that the phone extension is connected securely to your computer and the wall phone jack.
- Check that the phone line is connected to the input jack in the correct PC card.
- Verify that your speaker volume is turned up.
- Your modem may not recognize the local dial tone. You may need to reconfigure your Windows software to not detect a dial tone when dialing. See your Windows help file for instructions.

Modem Not Found/No Modem Noise

- Verify that you have a modem installed in your computer. If you do not, you will need to install one.
- If you have more than one modem installed, verify that you are connecting with the correct one.
- Make sure that there is a working phone line by connecting a phone to it and dialing out.
- Verify that any phone extension is connected securely to your computer and the wall phone jack.
- Check that the phone line is connected to the input jack in the correct PC card.
- If the local phone system is digital (as opposed to analog), you may need a special adapter to connect. You could also request access to a fax line, which is an analog line.
- Verify that your dial properties are entered correctly. You may need to change your settings if you are attempting to connect from a different location than the last time you used iPassConnect. Check (or uncheck) the box **Location same as selected number** and attempt to connect again.
- If you can't hear your modem, verify that the speaker volume is not turned off or disabled.
- Your modem may not recognize the local dial tone. You may need to reconfigure your Windows software to not detect a dial tone when dialing. See your Windows help file for instructions.

Loud or Ongoing Modem Noise

- Verify that the phone line is not already in use.
- The modem volume may be set too loud. Turn down the computer and/or modem volume.
- If your modem is not negotiating the connection, or is not compatible, you may need to set the modem manually. Check the instructions that came with your modem or contact your Help Desk for further assistance.

Busy Signal

- The access point you are connecting through may be inactive or temporarily unavailable. Try another access point in the area. The iPass service offers multiple access points in major business centers.
- You may be using an outdated access point that you have bookmarked. Try updating the Phonebook in iPassConnect and/or choose a new access point.
- Pick up the phone and dial the access point manually. You may hear a message explaining the problem. For example, the hotel switchboard system may be overloaded, or you may be required to dial a 9 to get an outside line.
- Your modem may not recognize the local dial tone, local busy tone, or both. You may need to reconfigure your Windows software to not detect a dial tone when dialing. Check your Windows help file.

No Answer/Human Answer

- The access point you are connecting through may be inactive or temporarily unavailable. Try another access point in the area. The iPass service offers multiple access points worldwide.

- You may be using an outdated Bookmark. Try choosing a new access point.
- Verify that your dial properties are entered correctly. You may need to change your settings if you are attempting to connect from a different location than the last time you used iPassConnect.

Connection Drops/Disconnects In The Middle Of a Session

- A sudden disconnect is often a result of electro-magnetic interference (EMI), a “noisy” phone line, or traffic congestion. Try reconnecting to the access point.
- If you remain connected to the Internet but are inactive, the iPassConnect software might be set to automatically disconnect you. Contact your Help Desk for assistance.

Slow Web Page Access

- Slow Web access could be the result of electromagnetic interference (EMI), a “noisy” phone line, or Internet congestion. Try reconnecting to the access point.

Wired Broadband Troubleshooting Tips

These tips apply to wired broadband connections.

Unable to Log in using iPassConnect

- If you’ve never successfully logged in using iPassConnect, your account may not be activated or enabled for roaming. Please follow your company’s procedure for verifying your account status, or contact your company’s iPass administrator for details.
- Verify that your Ethernet cable is securely plugged in to both the computer and the wall jack at your location.
- Most Ethernet cards have a light on the connector to the cable, indicating whether there is a valid Ethernet connection. Ensure that the light is on.

Wi-Fi Troubleshooting Tips

These tips apply to wireless broadband connections.

Unable to Log in using iPassConnect

- If you’ve never successfully logged in using iPassConnect, your account may not be activated or enabled for roaming. Please follow your company’s procedure for verifying your account status, or contact your company’s iPass administrator for details.
- Verify that your Wi-Fi adapter is correctly installed. If necessary, consult the adapter documentation.
- Make sure you are working away from any obstructions, such as walls, pillars, columns, or other possible sources of interference.
- Check your Link Status Meter, usually found in your Windows system tray, and make sure the signal strength and quality are at least 50%. Move your mouse pointer over the icon to display the link status.

Mobile Data Troubleshooting Tips

This advice applies to Mobile Data wireless connections.

Unable to Log in using iPassConnect

- You may be outside coverage area for your carrier network.
- Your account must be provisioned with the carrier network before attempting to use a Mobile Data card with iPassConnect. If you’ve never before successfully logged in using iPassConnect, your carrier account may not be activated or enabled for roaming. Please follow your company’s

procedure for verifying your carrier network account status, or contact your company's IT administrator for details.

- Verify that your Mobile Data card is correctly installed. If necessary, consult the card documentation.
- There could be interference with the Mobile Data signal. Make sure that you are not in or near a structure that is blocking the signal. Also, make sure you are working away from any obstructions, such as walls, pillars, columns, or other possible sources of interference.
- Your antenna may not be fully extended or is pointing in the wrong direction.
- Check **Connection Settings > Mobile Data**. Make sure your account credentials, including user name and password, are recorded correctly.
- If you use a SIM in your Mobile Data card, make sure your SIM is properly inserted in the card.

Technical Support

To get technical support for iPassConnect:

1. On the **Help** menu, select **Technical Support**.
2. The dialog box will display contact information for your organization's Help Desk.
3. Click **OK** to close.

Connection Log

The connection log displays your past connection history, including both successful and unsuccessful attempts to connect. This information can be useful when diagnosing access problems.

To view the connection log:

1. To view the connection log, on the **Help** menu, select **Connection Log**.
2. The Connection Log will display.
3. Click **OK** to close.

About iPassConnect

The **About iPassConnect** dialog box the details of iPassConnect. You may require this information when dealing with technical support issues. Shown here are:

- *Version*: software version number
- *Configuration*: profile and phonebook number.
- Copyright
- *Phonebook Update*: shows the date the list of POPs was last updated
- *Software Update*: shows the date iPassConnect software and associated configuration files were last updated.

To view the About dialog box:

1. On the **Help** menu, click **About iPassConnect**.
2. When done, click OK.