Dell[™] ControlPoint Connection Manager



Notes

NOTE: A NOTE indicates important information that helps you make better use of your computer.

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The DellTM ControlPoint (DCP) Connection Manager application enables you to easily set-up and automate your network connections and network-related settings (such as firewall, VPN, and printers) from a single application on your Dell laptop. DCP Connection Manager replaces multiple utilities that were required in the past to configure all of your network connections and settings, greatly simplifying the configuration process as well as network connectivity usage.

When DCP Connection Manager starts the first time, many of the connections and settings listed below are configured automatically using the default settings on your Dell laptop as a guide. From DCP Connection Manager, these connections and settings can be easily added, removed, edited, and imported/exported.

Connection Manager helps you manage the following network connection types and network-related settings:

- Wi-Fi
- Mobile Broadband
- Dial-up
- Ethernet or Wired (Cable Broadband, DSL)
- BluetoothTM and UWB
- GPS
- Printer
- Internet Browser & Security
- VPN
- Share Folders
- Map Network Drives

Starting DCP Connection Manager

There are three access methods for starting the DCP Connection Manager application:

- Directly through the Dell ControlPointTM application
- In the system tray icons
- By starting the DCP Connection Manager from the Microsoft[®] Windows[®] Start Menu

To start DCP Connection Manager from Dell Control Point system tray icon:

1 Double-click or right-click the DCP icon in the system tray.

- 2 Click Open Dell ControlPoint.
- **3** Click **Connection Manager**. The **Connection Manager Overview** window appears (see Figure 1-1).

To start DCP Connection Manager from Dell ControlPoint application:

 From Windows, click Start→All Programs→Dell Control Point→Connection Manager. The Connection Manager Overview window appears.

To start DCP Connection Manager directly from the Windows Start Menu:

• From Microsoft Windows, click Start→All Programs→Connection Manager. The DCP Connection Manager Device Status screen appears.

To start DCP Connection Manager from any of the three system tray icons:

• Double-click or right-click the DCP Connection Manager icon in the system tray, and then click **Open Utility**. The Device Status screen appears.

The **Connection Manager Overview** screen shows a Location Profile name (if configured), the currently active network connection and a list of installed network devices currently being managed by DCP Connection Manager. From this screen, you can click the **Connections** button to view, create, delete, and edit Network Connections and Location Profiles.

The **Connection Manager Overview** screen shows a Location Profile name (if configured), the currently active network connection, and a list of installed network devices currently being managed by DCP Connection Manager. From this screen you can click the **Connections** button to view, create, delete, and edit Network Connections and Location Profiles.

Figure 1-1. Connection Manager Overview Window



Table 1-1. Icon Legend

lcon	Description
¢.	Main DCP Connection Manager icon with no active network connections
-	Ethernet or wired network connection is active
all	Wireless network connection is active

Device Status Screen

The **Device Status** screen is the default home page that displays when you first start the DCP Connection Manager application. It provides information regarding the Network Devices (Network Types) configured on your Dell laptop and managed by DCP Connection Manager.

To access the Device Status screen, open DCP Connection Manager. The **Device Status** screen appears (see Figure 1-2).

Network Devices

The **Network Devices** section displays installed Network Types and their status. Grayed-out icons indicate that the device does not have an active connection. Click or double-click a **Network Type** icon to go to the **Connection Status** screen for this network connection. If an icon is not shown, then the Network Type is either not currently managed by the DCP Connection Manager or is not installed.

Radio Controls

In the **Radio Controls** section at the bottom of the screen, only installed technology radio types on your laptop that are managed by the DCP Connection Manager will have a check box.

- Click the Airplane Mode check box to disable radios of all Network Types.
- Click individual check boxes to disable or enable radios individually.

Other Links

In the navigation frame on the left are four links to other functions of the DCP Connection Manager application:

- Click **Device Status** to return to the **Device Status** page.
- Click **Connection Status** to see a more detailed view of your currently configured network connections, as well a start/stop/activate your network connections.
- Click **Profiles** to view configured Location Profiles and Network Connections, make a manual network connection, add or remove a network connection or Location Profile, edit settings, import, and export profiles.
- Click **Troubleshooting** to find resources for diagnosing network connectivity problems.

Figure 1-2. Device Status Screen



Connection Status Screen

The Connection Status screen illustrates the connectivity details of your network connections. To access the Connection Status Screen from the DCP Connection Manager, click **Connection Status**.

- The **Connection** drop-down menu lists installed and available network connections.
- The **Profile** drop-down menu lists the network connections defined for the Connection selected. The word Active appears next to the active Connection (Network Type).

Below the **Profile** drop-down menu is the network map associated with the selected connection (network type) and profile (network connection). From this screen you can do the following:

- Click a drop-down menu to find and select a network connection.
- Click **Connect/Disconnect** button to either disconnect from the active network or connect to an alternative network connection.

At the bottom of the screen are three links:

• Click **View Available Wi-Fi Networks** to locate and connect to Wi-Fi networks in your area. This link is active only when the Wi-Fi connection technology is enabled on your laptop and managed by the DCP Connection Manager.

- Click **View Network Status Details** to see a lower level of detail for the network you selected.
- Click **SMS Text messaging**. This link is active only when the Mobile Broadband connection technology is activated on your laptop by a mobile operator and managed by the DCP Connection Manager.

To interpret the network maps specific to each network connection type, click these links:

- Wi-Fi Status Screen
- Mobile Broadband Status Screen
- Dial-up Status Screen
- Ethernet Status Screen
- GPS Status Screen

Wi-Fi Connection Status

	D¢LL
Device Status Connection Status Profiles Troubleshooting	No Active Location Profile Connection: With Profile: Markeng With 3 1 ydresser-d6. Ready 2. 7. Connect
	View available Wi-Fi networks View network status details SMS Text messaging

Figure 1-3. Wi-Fi Connection Status Screen

Table 1-2.	Wi-Fi	Connection Status	Screen	Legend
------------	-------	--------------------------	--------	--------

Indicator	Description
1	Network connection source and laptop
	name
1, 2, and 4	Wi-Fi network adapter detected
2	Status Message field; other status
	messages include:
	Authenticating
	Connecting
	Connected
	Disconnecting
3	Strong Wi-Fi signal
4	Wi-Fi network symbol
4, 5, and 6	Wi-Fi network not connected to Internet
6	Internet symbol
7	Connect/Disconnect button

Indicator	Description
XI	Wi-Fi radio off
al	Good Wi-Fi signal
I	Weak Wi-Fi signal
	Wi-Fi connected to Internet
	Wi-Fi connected to domain
★ = X =	Wi-Fi not connected to domain
VPN	VPN tunnel established

Mobile Broadband Connection Status

Double-click on the **mobile operator branded** icon or **generic mobile broadband** icon to be redirected to the mobile operator or Dell website for more information about mobile broadband service.



Figure 1-4. Mobile Broadband Connection Status Screen

Table 1-3. Mobile Broadband Connection Status Screen Legend

Indicator	Description
1	Network connection source
1, 4, and 6	Mobile Broadband adapter connected
2	Local network IP Address
3	Signal strength
4	Connection status field; other status messages include:
	• Ready
	Connecting
	Disconnecting
	SIM Locked

Indicator	Description
5	Mobile Broadband air interface type. Other air interface types:
	• HSxPA
	• EVDO Rev A
	• UMTS
	• EVDO
	• GPRS
6	Mobile Operator branded symbol; may also be generic mobile operator symbol:
7	Mobile Operator name
9	Button indicating Connect/Disconnect, Unlock, or Activate
10	Mobile Broadband network adapter is in a dormant mode or idle.
atl	Strong signal
I	Weak signal
XII	Radio is turned off
\$~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mobile Broadband device connected to Internet
læ=x=©	Mobile Broadband device not connected to Internet
VPN	Mobile Broadband connected to domain
8	New text messages

Indicator	Description
R	Mobile broadband service is roaming on another network
VPN	VPN tunnel established

Dial-Up Connection Status

	D¢LL	ଡ
Device Status Connection Status Profiles Troubleshooting	No Active Location Profile Connection: Dial-Up Profile: Home DialUp 1. 3. 4. 3. 4. Ydresser-d620v 2. 6. Connection	• •
	View available Wi-Fi networks View network status details SMS Text messaging	

Figure 1-5. Dial-Up Connection Status Screen

Table 1-4.	Dial-Up Connection Status Screen Legend

Indicator	Description
1	Network connection source and laptop name
2	Status message field; other status messages include:
	• Ready
	• Dialing
	Connecting
	• Connected
	Disconnecting
3	Dial-up network symbol
3, 4, and 5	Dial-up network not connected to Internet
5	Internet symbol
6	Connect/Disconnect button

Indicator	Description
& ──X─≪	Dial-up network adapter not detected
\$B	Dial-up network connected to Internet
VPN	Dial-up network connected to a domain
≪ –x–	Dial-up network not connected to a domain
VPI	VPN tunnel established

Ethernet Connection Status

Dell ControlPoint - Connec	ion Manager DELL
Device Status Connection Status Profiles Troubleshooting	No Active Location Profile Connection: Ethemet (Active)
	View available Wi-Fi networks View network status details SMS Text messaging

Figure 1-6. Ethernet Connection Status Screen

Table 1-5.	Ethernet	Connection	Status	Screen	Legend
------------	----------	------------	--------	--------	--------

Indicator	Description
1	Network connection source
1, 2, and 3	Ethernet network adapter detected
3	Ethernet network
4	Domain symbol
5	Domain name
7	Ethernet network throughput
8	Local IP Address
9	Domain Controller IP Address
	Ethernet connected to a domain
器=X=∎	Ethernet not connected to a domain

Indicator	Description
	Ethernet cable unplugged
4E	Limited Ethernet signal

GPS Connection Status

Dell ControlPoint - Connec	DELL
Device Status Connection Status Profiles Troubleshooting	No Active Location Profile Connection: OPS (Active)
	View network status details SMS text messaging View available WI-Fi networks

Figure 1-7. GPS Connection Status Screen

|--|

Indicator				Description
1				Network connection source and laptop name
2				Dell laptop geographic location measured from satellite
3				GPS symbol
4				Status message field; other status messages include:
				Acquiring
				Acquired
				Disconnected
5				Start/Stop button
4			~	GPS Disconnected
qc-d430	Latitude: Longitude:	N/A N/A	Disconnect	

Tray Icon

The **Tray** icon provides a menu of shortcuts to often used DCP Connection Manager tasks and information.

1 Right-click any of the DCP Connection Manager tray icons (see Table 1-1) to open the **Tray Icon** window.

Figure 1-8. Tray Icon Window

Help Files About DCP Connection Manager	
Disable Radio	۲
Switch To Connect Using Wizard	۲
Options	
Open Utility	

- **2** The following Tray Icon tasks and information are available:
 - Help Files
 - About DCP Connection Manager
 - Disable Radios
 - Switch To opens a menu of all available Location Profiles and Network Connections.
 - Connect Using Wizard opens the Profile Wizard Options screen
 - Options opens the Program Settings screen
 - Open Utility reopens DCP Connection Manager

Location Profiles, Network Connections, and Network-Related Settings

Location Profiles

Location Profiles is a useful feature for automating your network connections and network-related settings when roaming between physical locations where your Dell laptop is frequently used. Common Location Profiles might include Work, Home, and Travel. For example, you may use your Dell notebook in multiple locations at work and use your laptop at home. Each location utilizes different networks and network types, printers, shared folders, etc. DCP Connection Manager allows you to define a Location Profile for each of these locations that combines applicable network connections and network-related settings, and applies them automatically when you either manually select the Location Profile or when Location Profiles automatically activate.

Below is the sequence of how the DCP Connection Manager works with Location Profiles and Network Connections.

- 1 When you power on your Dell laptop, DCP Connection Manager searches for available networks to connect to according to the order of Network Types and Network Connections defined from the **Profiles** screen.
- **2** When the first Network Type is located (Wi-Fi, Ethernet, Dial-up, etc.), DCP Connection Manager determines if the Network Type and its Network Connections are associated with any Location Profiles.
 - If DCP Connection Manager determines that a network connection is associated with one Location Profile, a connection is made automatically and the Location Profile's Network-related settings are applied.
 - If the Location Profile has several associated Network Types, DCP Connection Manager identifies the highest-ranking, available network connection to start. If during a networking session a connection link fails, the Connection Manager can re-establish a link with the next highest available network connection.
 - If DCP Connection Manager determines that a network connection is associated with more than one Location Profile, a pop-up box appears informing the user to manually decide which Location Profile to apply.

- Ordering of Network Types and Network Connections associated with Location Profiles is set from the Network Associations screen of the Profile Wizard.
- Ordering of Network Types and Network Connections not associated with Location Profiles is set from **Profiles** screen. Use the green up and down arrows to re-sequence Network Types and associated Network Connections.
- Advanced network connectivity rules associated with Location Profiles can be configured from the Location Settings screen.
- If DCP Connection Manager determines that a defined network connection is not associated with any Location Profile, you have the option to define a Location Profile or to start the network connection without a Location Profile.

Network Connections and Network Types

Network connections are uniquely configured network profiles associated with a network type supported on your Dell laptop. The following network types may be available on your Dell laptop:

- Wi-Fi
- Mobile Broadband
- Ethernet or Wired (includes DSL and Broadband Cable)
- Dial-up
- GPS
- Bluetooth
- UWB

Network-Related Settings

Any or all of these settings may be included with a Location Profile. The Profile Wizard scans your Dell laptop and automatically configures many of the settings listed below, which you can then edit and apply to an active Location Profile.

- Printer
- Internet Browser
- VPN

- Folder Sharing
- Map Network Drive
- Launch Applications
- Security
- GPS Settings
- WPAN Settings

Using Location Profiles and Network Connections

1 Open **DCP Connection Manager**→**Profiles**. The **Profiles** screen appears.

	D¢LL	
Device Status	Show All	•
Connection Status	Locations	
1	Mobile Broadband	
Profiles	WI-F1	
Troubleshooting	Dial-Up	
	Add	t₽₽Apply
	Import Profiles and Settings Export Profiles and Settings Change Settings	

Figure 1-9. Profiles Screen

From this screen, you can:

- Filter your profiles with the Show drop-down list
- · Connect or disconnect an existing network or hot spot
- Add a Network Connection or Location Profile
- Remove a Network Connection or Location Profile
- Lock a Network Connection or Location Profile

- Use the **Up** and **Down** arrows to re-sequence Network Connections and Location Profiles
- Right-click on a Location Profile or Network Connection to edit settings
- Import profiles and settings
- Export profiles and settings
- Change Settings (edit Global Program and Network Settings)

Connecting to Location Profiles and Network Connections

DCP Connection Manager will automatically connect to an available network connection according to the sequence of Network Connections and Location Profiles defined from the **Profiles** screen and **Location Settings** screen. You may also manually connect to a Network Connection or Location Profile.

To connect manually:

- 1 Open DCP Connection Manager→Profiles. The Profiles screen appears.
- 2 Highlight a Network Connection or Location Profile and right-click to open a drop-down list and select Connect (for Network Connections) or Activate (for Location Profiles) as appropriate.

* Dell Contro®oint - Conn	ection Manager		C C C
Device status Connection status Profiles Troubleshooting	Show All Locations Dial-up Mobile Broadband Field Network Access W-F1 Add Import Profiles and Settings Export Profiles and Settings Change Settings	Mohac Lock Connect Properties Remove	V V Asple

Figure 1-10. Connect to a Network from Profiles Screen

Setting the Order of Preferred Network Types and Network Connections

Set the order of preferred network types and associated network connections through the drop-down list to the right of each network type on the **Profiles** screen. Use the green up and down arrows to re-sequence Location Profiles, Network Types, and Network Connections.

You can also control Location Profile priority rules from the **Location Settings** screen:

- 2 Select a Network Connection Type, and then use the green up and down arrows to re-sequence that network type and associated network connections amongst all network types or select a network connection and re-sequence it amongst other network connections within a network type.
- **3** Click **Apply** to confirm the sequence changes.

Using the Profile Wizard to Add a Location Profile or Network Connection

A Location Profile is made up of one or more network types, network connections, and other network-related settings. The Profile Wizard will guide you through the process of creating a basic network connection or a Location Profile with any of the following settings:

- Wi-Fi
- Mobile Broadband
- Ethernet
- Dial Up
- General Location Profile icon change
- Internet Browser
- Launch Applications
- Map Network Drive
- Folder Sharing
- Printers
- Security
- VPN
- WPAN
- GPS
- Network Connections Associate existing network connections with Location Profiles

Adding a Location Profile

- 1 Click DCP Connection Manager→Profiles→Add. The Profile Wizard Options screen appears when using the Profile Wizard to create a Location Profile or configure a Network Connection (see Figure 1-11).
- 2 Check the Location Based Profile check box and enter a name that best describes the Location Profile you want to create—for example, Work, Home, or Travel.
- **3** Select one or more **Network Types** if you would like to create and associate one or more Network Connections with this Location Profile now. Or, click **Next** to create and associate Network Connections with this Location Profile later.

Figure 1-11. Profile Wizard Options Screen



Add a Network Connection using the Profile Wizard

- 1 Click DCP Connection Manager→Profiles→Add. The Profile Wizard Options screen opens (see Figure 1-11).
- 2 Check the Choose the type of network connections you want to configure check box.
- **3** Check the network connections you want to configure from the list of **Network Types** available on the screen.
- 4 Click the Next button to continue to the Profile Wizard Settings screen (see Figure 1-12). The network connection type(s) you have chosen from the Profile Wizard Options screen appear at the top of the list on the left.
- 5 As you make selections on the left, the fields on the right change according to the types of network connections you selected from the previous Profile
 Wizard Options screen. Populate as many fields on the right as necessary to configure your network connection.
- 6 Click Advanced to configure advanced network connection settings and/or to modify default IP and DNS settings.
- 7 Click Next to continue the Profile Wizard process, or click Finish to review configured network settings from the Profile Wizard Summary Page if the wizard process is completed.

Figure 1-12. Profile Wizard Settings Screen

			_	
General WiFi Mobile Broadband Ethernet Dial Up Folder Sharing Map Network Drive Internet Browser Launch Applications Printers WPAN GPS VPN Security Network Connections	Please enter a name that you want to give to this profile. This can be any name of your choosing.			
	Connection Name: Copy Profile From: Username: Password: Confirm Password: APN:	JG Data	Copy	
		ydresser		
		••••		
	Advanced			

Profile Wizard Summary Screen

The **Profile Wizard Summary** screen is reached by clicking the **Finish** button during a Profile Wizard routine, and summarizes the parameters you have set for the Location Profile, including network connection and network and user-related Location Profile Settings. You can also review, edit, print or save the settings to a .txt file.

From this page you can do the following:

- Click **Previous** to return to the Profile Wizard and adjust your settings.
- Print configuration settings.
- Save configuration settings to file.
- Hide Network Keys.
- Click **Done** to save the configuration settings you have made. The Profiles screen appears.

Figure 1-13. Profile Wizard Summary Screen

I Hide Network Keys
Location Profile Name: Office WiFi Settings Connection Name: Conference Room WiFi Network name: ConfRoom Security type: WPA2-Enterprise Encryption type: AES-CCMP Advanced Settings Enable Connect Prior To Logon: False Use VPN Connection: False Advanced Network Settings (WiFi) Obtain an IP automatically: True *
Print configuration settings Save configuration settings to file

Remove or Edit a Location Profile or Network Connection

You can remove or edit a Location Profile or Network Connection you have defined.



- 1 Open DCP Connection Manager→Profiles. The Profiles screen appears.
- 2 To remove a Location Profile or Network Connection, right-click the Location Profile or Network Connection name and select Remove from the drop-down list box that opens.
- **3** To edit a Location Profile or Network Connection, right-click on the Location Profile or Network Connection name and select Properties from the drop-down box to open the associated Profile Wizard Settings screen.



NOTE: A Windows Local Administrator or better privilege is required to edit or remove Location Profiles and Network Connections if they have been locked by an administrator.

Lock a Location Profile or Network Connection

You may need to lock a Location Profile or Network Connection to prevent setting changes.



- 1 Open DCP Connection Manager→Profiles. The Profiles screen appears (see Figure 1-14).
- 2 Right-click a Location Profile or Network Connection name and select Lock from the drop-down list box.

Figure 1-14. Lock a Location Profile or Network Connection

	D¢LL			(
Device Status	Show All		•	
Connection Status	Locations		9	^
Profiles	Mobile Broadband		onnected	2012
Troubleshooting	VationalAccess - BroadbandAccess Quick 2 Net (14.4kbps)	100 B	Lock Lock Connect Properties Remove	
		¥ ×		
	Import Profiles and Settings Export Profiles and Settings Change Settings			

Export Location Profiles, Network Connections, and Global Settings

There are five profile options available for selecting Location Profiles, Network Connections, and Network-Related Settings to export using the DCP Connection Manager Export feature:

- Location Profiles—Includes all Location Profiles (and Network-Related Settings) only
- All Networks—Includes all network connections only
- Mobile—Includes mobile broadband network connections
- Wi-Fi—Includes Wi-Fi network connections
- Dial-Up—Includes dial-up network connections

To access the profile options:

- 1 Open DCP Connection Manager→Profiles→Export Profiles and Settings. The Export Profiles screen displays (see Figure 1-15).
- 2 Choose the **Profile Type** to export from the drop-down list box.
- **3** Select and move **Location Profiles** or **Network Connections** for export from the list box on the left and move to the right list box.
- 4 Select import/export settings:
 - The **Include adapter settings** check box supports only Wi-Fi adapter settings today.
 - The **Include program settings** check box exports all Global Program and Network Settings.
 - Check the **Include Credentials** check box to include all credential and security information such as user names, passwords, and network security keys in the encrypted export .xml file.
- 5 Click OK to open the Save As screen.
- **6** Save the file as an .xml file.
- 7 Click the **Save** button to save the exported .xml file and return to the **Export** screen.

Figure 1-15. Export Profiles Screen



Import Location Profiles, Network Connections, and Global Settings

There are two methods for importing Location Profiles, Network Connections and Global Settings: the DCP Connection Manager Import utility or manual/automated distribution of the profile file to System32 folder in Windows.

DCP Connection Manager Import Utility

- 1 Open DCP Connection Manager→Profiles→Import Profiles and Settings. The Import Profiles screen opens.
- 2 Select the appropriate .xml profiles file.
- 3 Click Open to finish the import routine of the selected profile file. The Import Profiles screen closes and the imported profile file is deleted.

Manual/Automated Distribution of Profile File to System32 Folder in Windows

- 1 Locate the exported profile file and rename it **networkUCM.xml**.
- 2 Manually place the file in C:\\Windows\Systems32\networkUCM.xml. Alternatively, you can distribute the file using a third-party system management tool.

Figure 1-16. Rename the Exported Profile File



Add a Location Profile Icon

From the **General** screen, you can add a distinctive icon that represents the Location Profile being created and edit a Location Profile name.

- 1 Open DCP Connection Manager→Profiles→Add→Next→General.
- 2 Edit a Location Profile Name.
- 3 Click Change Icon to optionally select another icon for this profile.
- 4 Click Next to continue the Profile Wizard settings process, or click Finish to reach the Profile Wizard Summary page.
Figure 1-17. Profile Wizard General Screen



Wi-Fi Connections

Wi-Fi or WLAN (wireless local area network) is a commonly used wireless network in laptop systems that enables a connection to the Internet or other portable systems that have Wi-Fi functionality. Wi-Fi networks broadcast radio waves that can be picked up by Wi-Fi receivers that are attached to different portable systems. Wi-Fi is also the brand name for WLAN technologies and devices. The following Wi-Fi network bands are supported: A, B, G, N.

By default, DCP Connection Manager configures your Wi-Fi settings with the default settings on your Dell laptop. From DCP Connection Manager, Wi-Fi network connections can be added, removed or edited.

Create a Basic Wi-Fi Network Connection

- 1 Open DCP Connection Manager→Profiles→Add.
- 2 Select the Wi-Fi check box and click Next. The Wi-Fi screen displays (see Figure 1-18).
- **3** Under **Connection Name**, enter a name to associate with this network connection.
- 4 To select a Network Name:

- **a** Click the **View** button to scan from a list of broadcasting networks for a Wi-Fi network to add.
- **b** Click on a **Wi-Fi network**, and then click **OK** to return to the previous screen. DCP Connection Manager will automatically populate the required fields, except the **Key** field which requires manual entry.

If the scan result does not show the Wi-Fi network for which you are searching, then manually enter the following required information:

- Network Name: Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.
- Security Type: Press the drop-down arrow to select one of the following basic Security Types from the list: Open, WEP, WEP-PSK, WPA-Personal, WPA2-Personal, or CKIP.
- **Encryption Type:** Press the drop-down arrow to select one of the following Encryption Types from the list: WEP, TKIP, AES, or CKIP.
- **Key:** Enter the assigned security key for this Wi-Fi network (sometimes referred to as an encryption key or pass phrase).

NOTE: Provide 5 or 13 characters if entering the key in ASCII, and 10 or 26 characters if entering the key as a hexidecimal value.

The **Display Characters** check box pertains to showing or hiding the Key.

5 Click **Next** to continue the Profile Wizard settings process, or click **Finish** to reach the Profile Wizard Summary page.

NOTE: Click **Advanced** to set additional Wi-Fi options. See "Creating an Advanced Wi-Fi Connection" for more information.

in means	D¢LL		
WI-FI Locations	Please enter a name profile. This can be a Connection Name: Network Name: Security Type: Encryption Type: Key: Computer to cor Click. Advanced authe	that you want to given ny name of your chc Allso Viejo Wi-Fi Vino WEP (Shared) Obsplay Charas mputer (adhoc) netw ntication settings for	e to this boosing. View voters vork re 802.1X r this network.
	Cancel	vious Next	Finish

Figure 1-18. Profile Wizard Wi-Fi Screen

Creating an Advanced Wi-Fi Connection

Advanced Wi-Fi connectivity is designed for enterprise organizations seeking the highest levels of wireless network security. Additional network infrastructure such as AAA or RADIUS servers are required.



NOTE: Contact your organization's system administrator for details on configuring an advanced Wi-Fi connection. Consult the "Wi-Fi Security Overview" section for more information on advanced Wi-Fi connectivity.

DCP Connection Manager supports the following Wi-Fi security type combinations:

- 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with TLS EAP • and no Inner Authentication
- 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with LEAP EAP and no Inner EAP Authentication
- 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with PEAP • EAP and MS-CHAPv2 or GTC Inner EAP Authentication
- 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with PEAP EAP and TLS Inner EAP Authentication
- 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with EAP-• FAST EAP and GTC or MS-CHAPv2 Inner EAP Authentication

- 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with EAP-FAST EAP and no Inner EAP Authentication (CCX v3 mode)
- 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with TTLS EAP and PAP, CHAP, MS-CHAP, or MS-CHAPv2 Inner EAP Authentication
- 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with TTLS EAP and TLS Inner EAP Authentication
- 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with EAP-FAST EAP and TLS Inner EAP Authentication

Configure 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with TLS EAP and No Inner Authentication

- 1 Open DCP Connection Manager→Profiles→Add. Check the Wi-Fi check box, and then click Next. The Profile Wizard Settings screen for Wi-Fi appears (see Figure 1-19).
- **2** In the **Connection Name** field, type a name to associate with this network connection.
- **3** Click the **View** button to scan from a list of broadcasting networks for a Wi-Fi network to add. Click on a **Wi-Fi network**, and then click **OK** to return to the previous screen. DCP Connection Manager automatically populates the required fields.

- **Network Name:** Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.
- Security Type: Press the drop-down arrow to select one of the following Security Types from the list: 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM.
- Encryption Type: Press the drop-down arrow to select one of the following Encryption Types from the list: TKIP, AES, or CKIP.
- **4** If the Advanced Wi-Fi screen does not open automatically (see Figure 1-20), click **Advanced** to continue configuring an advanced Wi-Fi network connection and set additional Wi-Fi options.
 - Enable the **Connect Prior to Logon** option if you choose to establish a wireless network connection prior to user logon to Windows.

- **NOTE:** The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on the Windows Vista[®] operating system, this setting will be disabled (grayed-out).
- Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.
- Select **Use VPN Connection** to automatically start the VPN configured for this network connection.
- Select Specify Mandatory AP to enforce Wi-Fi network access to a specific AP. Enter a date after which the mandatory AP expires.
- 5 Select EAP-TLS from the Authentication drop-down list.
- 6 Click Settings to continue to the next screen (see Figure 1-21).
- 7 From the **Connection** tab do the following:
 - a Check the Validate server certificate box.
 - **b** Select the certificate authority associated with the security certificate installed on the Dell laptop or the SmartCard you will be using.
- 8 Click the User Credentials tab to continue (see Figure 1-22).
- **9** If using a Certificate, click the **Use the following Certificate** radio button and select a certificate from the list.
- 10 Click OK to return to the Advanced Wi-Fi screen.
- **11** Click **OK** to finish configuring advanced Wi-Fi settings and return to the **Profile Wizard settings** screen.
- 12 Click Next to continue the Profile Wizard, or click Finish to reach the Profile Wizard Summary screen.

Figure 1-19. Profile Wizard Settings for Wi-Fi Screen



Figure 1-20. Advanced Wi-Fi Window

Advanced Wi-Fi
Wi-Fi
Enable Connect Prior To Logon (Admin Only)
Use VPN Connection * only active when VPN option configured in Location
Exclude from VPN enforcement (Admin only)
Specify Mandatory AP
Address: Clear
Authentication: EAP-TLS Cettings
Advanced Network
OK Cancel

Figure 1-21. Advanced Connection Window



Figure 1-22. Advanced User Credentials Window

Advance Conne	tion User Credentials		×
	 Use SmartCard Use the following Certition 	ficate	
	Certificate	Expiry	
	Bik singh	7/27/2007 3:06.	_
	<	×	
	View C	OK Cance	

Configure 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with TTLS EAP and TLS Inner EAP Authentication

- Click DCP Connection Manager→Connections→Profiles→Add→Wi-Fi. The Profile Wizard Settings screen for Wi-Fi appears (see Figure 1-19).
- **2** In the **Connection Name** field, type a name to associate with this network connection.

3 Click the **View** button to scan from a list of broadcasting networks for a Wi-Fi network to add. Click on a Wi-Fi network and then click **OK** to return to the previous screen. DCP Connection Manager automatically populates the required fields.

- **Network Name:** Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.
- Security Type: Press the drop-down arrow to select one of the following Security Types from the list: 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM.
- Encryption Type: Press the drop-down arrow to select one of the following Encryption Types from the list: TKIP, AES, or CKIP.
- **4** If the **Advanced Wi-Fi** screen does not open automatically (see Figure 1-20), click **Advanced** to continue configuring an advanced Wi-Fi network connection and set additional Wi-Fi options.
 - Enable the Connect Prior to Logon option if you choose to establish a wireless network connection prior to user logon to Windows.
 - **NOTE:** The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on the Windows Vista operating system, this setting will be disabled (grayed-out).
 - Select Use VPN Connection to automatically start the VPN configured for this network connection.
 - Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.
 - Select Specify Mandatory AP to enforce Wi-Fi network access to a specific AP. Enter a date after which the mandatory AP expires.
- 5 Select EAP-TTLS-TLS from the Authentication drop-down list.
- 6 Click Settings to continue to the next screen (see Figure 1-21).
- 7 From the **Connection** tab, check the **Use anonymous outer identity** box to prevent clear text username and password transmission.

- 8 Check the Validate server certificate box. Select the certificate authority associated with the security certificate installed on the Dell laptop or the SmartCard you will be using.
- 9 Click the User Credentials tab to continue (see Figure 1-22).
- **10** If using a certificate, click the **Use the following Certificate** radio button and select the certificate installed on your laptop from this list.
- 11 Click OK to return to the Advanced Wi-Fi screen.
- 12 Click OK to finish configuring advanced Wi-Fi settings and return to the **Profile Wizard Settings** screen.
- **13** Click **Next** to continue the Profile Wizard, or click **Finish** to reach the **Profile Wizard Summary** screen.

Configure 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client With TTLS EAP and PAP, CHAP, MSCHAP, or MSCHAPv2 Inner EAP Authentication

- 1 Open DCP Connection Manager→Profiles→Add. Check the Wi-Fi check box, and then click Next. The Profile Wizard Settings screen for Wi-Fi appears (see Figure 1-19).
- **2** In the **Connection Name** field, type a name to associate with this network connection.
- **3** Click the **View** button to scan from a list of broadcasting networks for a Wi-Fi network to add. Click on a **Wi-Fi network** and then click **OK** to return to the previous screen. DCP Connection Manager automatically populates the required fields.

- Network Name: Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.
- Security Type: Press the drop-down arrow to select one of the following Security Types from the list: 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM.
- Encryption Type: Press the drop-down arrow to select one of the following Encryption Types from the list: TKIP, AES, or CKIP.

- 4 If the Advanced Wi-Fi screen does not open automatically (see Figure 1-20), click Advanced to continue configuring an advanced Wi-Fi network connection and set additional Wi-Fi options.
 - Enable the Connect Prior to Logon option if you choose to establish a wireless network connection prior to user logon to Windows.

 - **NOTE:** The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on the Windows Vista operating system, this setting will be disabled (grayed-out).
 - Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.
 - Select Use VPN Connection to automatically start the VPN configured for this network connection.
 - Select Specify Mandatory AP to enforce Wi-Fi network access to a specific AP. Enter a date after which the Mandatory AP expires.
- 5 Select EAP-TTLS-TLS from the Authentication drop-down list.
- 6 Click Settings to continue to the next screen (see Figure 1-21).
- 7 From the **Connection** tab, check the **Use anonymous outer identity** box to prevent clear text username and password transmission.
- 8 Check the Validate server certificate box. Select the certificate authority associated with the security certificate installed on the Dell laptop or the SmartCard you will be using.
- 9 Click the User Credentials tab to continue (see Figure 1-22).
- 10 If using a certificate, click the Use the following Certificate radio button and select the certificate installed on your laptop from this list.
- 11 Click **OK** to return to the **Advanced Wi-Fi** screen.
- 12 Click **OK** to finish configuring advanced Wi-Fi settings and return to the Profile Wizard Settings screen.
- **13** Click **Next** to continue the Profile Wizard, or click **Finish** to reach the Profile Wizard Summary page.

Configure 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with PEAP EAP and TLS EAP Inner Authentication

- 1 Open DCP Connection Manager→Profiles→Add. Select the Wi-Fi check box, and then click Next. The Profile Wizard Settings screen for Wi-Fi appears (see Figure 1-19).
- **2** In the **Connection Name** field, type a name to associate with this network connection.
- **3** Click the **View** button to scan a list of broadcasting networks for a Wi-Fi network to add. Click on a Wi-Fi network and then click **OK** to return to the previous screen. DCP Connection Manager automatically populates the required fields.

- Network Name: Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.
- Security Type: Press the drop-down arrow to select one of the following Security Types from the list: 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM.
- Encryption Type: Press the drop-down arrow to select one of the following Encryption Types from the list: TKIP, AES, or CKIP.
- **4** If the **Advanced Wi-Fi** screen does not open automatically (see Figure 1-20), click **Advanced** to continue configuring an advanced Wi-Fi network nonnection and set additional Wi-Fi options.
 - Select the **Enable Connect Prior to Logon** option if you choose to establish a wireless network connection prior to user logon to Windows.
 - **NOTE:** The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on the Windows Vista operating system, this setting will be disabled (grayed-out).
 - Select **Use VPN Connection** to automatically start the VPN configured with this network connection.
 - Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.

- Select Specify Mandatory AP to enforce Wi-Fi network access to a specific AP. Enter a date after which the mandatory AP expires.
- 5 Select **PEAP-TLS** from the **Authentication** drop-down list.
- 6 Click Settings to continue to the next screen (see Figure 1-21).
- 7 From the **Connection** tab, do the following:
 - a Check the Validate server certificate box.
 - **b** Select the certificate authority associated with the security certificate installed on the Dell laptop or the SmartCard you will be using.
- 8 Click the User Credentials tab to continue (see Figure 1-22).
- **9** If using a certificate, click the **Use the following Certificate** radio button and select a certificate from the list.
- 10 Click OK to return to the Advanced Wi-Fi screen.
- **11** Click **OK** to finish configuring advanced Wi-Fi settings and return to the **Profile Wizard settings** screen.
- 12 Click Next to continue the Profile Wizard, or click Finish to reach the **Profile Wizard Summary** page.

Configure 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with PEAP EAP and MS-CHAPv2 or GTC Inner EAP Authentication

- 1 Open DCP Connection Manager→Profiles→Add. Check the Wi-Fi check box, and then click Next. The Profile Wizard Settings screen for Wi-Fi appears (see Figure 1-19).
- 2 In the **Connection Name** field, type a name to associate with this network connection.
- **3** Click the **View** button to scan from a list of broadcasting networks for a Wi-Fi network to add. Click on a Wi-Fi network and then click **OK** to return to the previous screen. DCP Connection Manager automatically populates the required fields.

If the scan result does not show the Wi-Fi network you are searching for, then manually enter the following required information:

 Network Name: Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.

- Security Type: Press the drop-down arrow to select one of the following Security Types from the list: 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM.
- **Encryption Type:** Press the drop-down arrow to select one of the following Encryption Types from the list: TKIP, AES, or CKIP. 4.
- **4** If the Advanced Wi-Fi screen does not open automatically, click **Advanced** to continue configuring an advanced Wi-Fi network connection and set additional Wi-Fi options (see Figure 1-20).
 - Select the Enable Connect Prior to Logon option if you choose to establish a wireless network connection prior to user logon to Windows.
 - **NOTE:** The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on the Windows Vista operating system, this setting will be disabled (grayed-out).
 - Select **Use VPN Connection** to automatically start the VPN configured with this network connection.
 - Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.
 - Select Specify Mandatory AP to enforce Wi-Fi network access to a specific AP. Enter a date after which the mandatory AP expires.
- 5 Select **PEAP-MSCHAPv2** or **PEAP-GTC** from the **Authentication** dropdown list.
- 6 Click Settings to continue to the next screen (see Figure 1-21).
- 7 From the **Connection** tab, check the **Use anonymous identity** box to prevent clear text transmission of username and password information.
- 8 Check the Validate server certificate box. Then, select the certificate authority associated with the security certificate installed on the Dell laptop or the SmartCard you will be using.
- **9** Click on the User Credentials tab to continue (see Figure 1-23).
- **10** Select one of the available **User Credential** options.
- 11 Click OK to return to the Advanced Wi-Fi screen.
- 12 Click OK to finish configuring advanced Wi-Fi settings and return to the **Profile Wizard settings** screen.

13 Click **Next** to continue the Profile Wizard, or click **Finish** to reach the **Profile Wizard Summary** page.

Advanced
Connection User Credentials
 Use Windows credentials
Prompt for credentials
O Use the following credentials
Username:
Password:
OK Cancel
United States

Figure 1-23. Advanced User Credentials Window

Figure 1-24. Advanced Connection Window



Configure 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with EAP-FAST EAP and GTC or MS-CHAPv2 Inner EAP Authentication

1 Open DCP Connection Manager→Profiles→Add. Check the Wi-Fi check box, and then click Next. The Profile Wizard Settings screen for Wi-Fi appears (see Figure 1-19).

- 2 In the **Connection Name** field, type a name to associate with this network connection.
- **3** Click the **View** button to scan a list of broadcasting networks for a Wi-Fi network to add. Click on a Wi-Fi network and then click **OK** to return to the previous screen. DCP Connection Manager automatically populates the required fields.

If the scan result does not show the Wi-Fi network you are searching for, then manually enter the following required information:

- Network Name: Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.
- Security Type: Press the drop-down arrow to select one of the following Security Types from the list: 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM.
- **Encryption Type:** Press the drop-down arrow to select one of the following Encryption Types from the list: TKIP, AES, or CKIP.
- **4** If the Advanced Wi-Fi screen does not open automatically (see Figure 1-20), click **Advanced** to continue configuring an advanced Wi-Fi network connection and set additional Wi-Fi options.
 - Enable Connect Prior to Logon option if you choose to establish a wireless network connection prior to user logon to Windows.

NOTE: The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on the Windows Vista operating system, this setting will be disabled (grayed-out).

- Select **Use VPN Connection** to automatically start the VPN configured with this network connection.
- Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.
- Select Specify Mandatory AP to enforce Wi-Fi network access to a specific AP. Enter a date after which the mandatory AP expires.
- **5** Select **EAP-FAST MSCHAPv2** or **EAP-FAST GTC** from the Authentication drop-down list.
- 6 Click Settings to continue to the next screen (see Figure 1-24).

- 7 From the **Connection** tab, check the **Use anonymous outer identity** box to prevent clear text transmission of username and password information.
- 8 If using Automatic PAC Provisioning, check the Validate server certificate box. Then, select the certificate authority associated with the security certificate installed on your laptop.

Alternatively, you can check the Available Manual PAC radio button and click the Add button to manually install a PAC file.

9 Click Enable Fast Reconnect to allow limited re-authentication when roaming between Wi-Fi access points.

NOTE: This setting is available only with Cisco Wi-Fi access points configured with Cisco's Wireless Domain Services (WDS).

- **10** Click the User Credentials tab to continue (see Figure 1-22).
- 11 Select one of the available User Credential options.
- **12** Click **OK** to return to the **Advanced Wi-Fi** screen.
- **13** Click **OK** to finish configuring advanced Wi-Fi settings and return to the Profile Wizard Settings screen.
- 14 Click Next to continue the **Profile Wizard**, or click **Finish** to reach the Profile Wizard Summary page.

Configure 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client with EAP-FAST EAP and No Inner EAP Authentication

- check box, and then click Next. The Profile Wizard Settings screen for Wi-Fi appears (see Figure 1-19).
- 2 In the **Connection Name** field, type a name to associate with this network connection.
- 3 Click the View button to scan a list of broadcasting networks for a Wi-Fi network to add. Click on a Wi-Fi network and then click OK to return to the previous screen. DCP Connection Manager automatically populates the required fields.

If the scan result does not show the Wi-Fi network you are searching for, then manually enter the following required information:

Network Name: Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.

- Security Type: Press the drop-down arrow to select one of the following Security Types from the list: 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM.
- Encryption Type: Press the drop-down arrow to select one of the following Encryption Types from the list: TKIP, AES, or CKIP.
- If the Advanced Wi-Fi screen does not open automatically (see 4 Figure 1-20), click Advanced to continue configuring an advanced Wi-Fi network connection and set additional Wi-Fi options.
 - Select the **Enable Connect Prior to Logon** option if you choose to establish a wireless network connection prior to user logon to Windows.
 - **NOTE:** The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on the Windows Vista operating system, this setting will be disabled (grayed-out).
 - Select Use VPN Connection to automatically start the VPN configured with this network connection.
 - Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.
 - Select Specify Mandatory AP to enforce Wi-Fi network access to a specific AP. Enter a date after which the mandatory AP expires.
- **5** Select **EAP-FAST** from the **Authentication** drop-down list.
- 6 Click Settings to continue to the next screen (see Figure 1-24).
- 7 From the **Connection** tab, do the following:
 - If using Automatic PAC Provisioning, check the Validate server certificate box. Then, select the certificate authority associated with the security certificate your laptop will access.
 - If not using Automatic PAC Provisioning, check the Available Manual PAC radio button and click the Add button to manually install a PAC file.
 - Check Enable Fast Reconnect box to allow limited re-authentication when roaming between Wi-Fi access points.



NOTE: This setting is available only with Cisco Wi-Fi access points configured with Cisco Wireless Domain Services (WDS).

- 8 Click the User Credentials tab to continue (see Figure 1-23).
- 9 Select one of the available User Credential options.
- **10** Click **OK** to return to the advanced Wi-Fi screen.
- **11** Click **OK** to finish configuring advanced Wi-Fi settings and return to the **Profile Wizard Settings** screen.
- 12 Click Next to continue the Profile Wizard, or click Finish to reach the Profile Wizard Summary page.

Configure 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client With EAP-FAST EAP and TLS Inner EAP Authentication

- Open DCP Connection Manager→Connections→Profiles→Add→Wi-Fi. The Profile Wizard Settings screen for Wi-Fi appears.
- **2** In the **Connection Name** field, type a name to associate with this network connection.
- **3** Click the **View** button to scan a list of broadcasting networks for a Wi-Fi network to add. Click on a Wi-Fi network and then click **OK** to return to the previous screen. DCP Connection Manager automatically populates the required fields.

- **Network Name:** Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.
- Security Type: Press the drop-down arrow to select one of the following Security Types from the list: 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM.
- Encryption Type: Press the drop-down arrow to select one of the following Encryption Types from the list: TKIP, AES, or CKIP.
- **4** If the **Advanced Wi-Fi screen** does not open automatically (see Figure 1-20), click **Advanced** to continue configuring an advanced Wi-Fi network connection and set additional Wi-Fi options.
 - Select the Enable Connect Prior to Logon option if you choose to establish a wireless network connection prior to user logon to Windows.



NOTE: The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on the Windows Vista operating system, this setting will be disabled (grayed-out).

- Select Use VPN Connection to automatically start the VPN configured with this network connection.
- Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.
- Select Specify Mandatory AP to enforce Wi-Fi network access to a specific AP.
- 5 Select EAP-FAST-TLS from the Authentication drop-down list.
- 6 Click **Settings** to continue to the next screen (see Figure 1-24).
- 7 From the **Connection** tab, check the **Use anonymous outer identity** box to prevent clear text username and password transmission.
- 8 If using Automatic PAC Provisioning, check the Validate server certificate box. Select the certificate authority associated with the security certificate your PC will access.

If you are *not* using Automatic PAC Provisioning, check the Available Manual PAC radio button and click the Add button to manually install a PAC file.

9 Check the Enable Fast Reconnect box to allow limited re-authentication when roaming between Wi-Fi access points.



NOTE: This setting is available only with Cisco Wi-Fi access points configured with Cisco Wireless Domain Services (WDS).

- **10** Click the User Credentials tab to continue (see Figure 1-22).
- 11 If using a certificate, click the Use the following Certificate radio button and select the certificate installed on your laptop from this list.
- 12 Click OK to return to the Advanced Wi-Fi screen.
- 13 Click **OK** to finish configuring advanced Wi-Fi settings and return to the Profile Wizard Settings screen.
- 14 Click Next to continue the Profile Wizard, or click Finish to reach the Profile Wizard Summary page.

Configure 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM Client With EAP LEAP and No Inner Authentication

- 1 Open DCP Connection Manager→ Connections→Profiles→Add→Wi-Fi. The Profile Wizard Settings screen for Wi-Fi appears (see Figure 1-19).
- 2 In the **Connection Name** field, type a name to associate with this network connection.
- **3** Click the **View** button to scan a list of broadcasting networks for a Wi-Fi network to add. Click on a Wi-Fi network and then click **OK** to return to the previous screen. DCP Connection Manager automatically populates the required fields.

- Network Name: Type the name of the Access Point (AP), often called an SSID, to which you will be connecting.
- Security Type: Press the drop-down arrow to select one of the following Security Types from the list: 802.1x, WPA-Enterprise, WPA2-Enterprise, or CCKM.
- Encryption Type: Press the drop-down arrow to select one of the following Encryption Types from the list: TKIP, AES, or CKIP.
- **4** If the **Advanced Wi-Fi** screen does not open automatically (see Figure 1-20), click **Advanced** to continue configuring an advanced Wi-Fi network connection and set additional Wi-Fi options.
 - Select the Enable Connect Prior to Logon option if you choose to establish a wireless network connection prior to user logon to Windows.
 - **NOTE:** The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on the Windows Vista operating system, this setting will be disabled (grayed-out).
 - Select **Use VPN Connection** to automatically start the VPN configured with this network connection.
 - Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.

- Select **Specify Mandatory AP** to enforce Wi-Fi network access to a specific AP. Enter a date after which the mandatory AP expires.
- 5 Select EAP-LEAP from the Authentication drop-down list.
- 6 Click Settings to continue to the User Credentials tab (see Figure 1-23).
- 7 Select one of the available User Credential options.
- 8 Click OK to return to the Advanced Wi-Fi screen
- **9** Click **OK** to finish configuring Advanced Wi-Fi settings and return to the **Profile Wizard Settings** screen.
- **10** Click **Next** to continue the **Profile Wizard**, or click **Finish** to reach the **Profile Wizard Summary** page.

View Available Wireless Networks

- 1 Open DCP Connection Manager→View available Wi-Fi networks. The Available Wireless Networks screen appears (see Figure 1-25).
- **2** The following functions are available:
 - Select a network name from the list, and click **Connect** to create a Wi-Fi network connection through the Profile Wizard.
 - Click **Connection Status** or **OK** to return to the previous screen.
 - Click View Site Survey to view lower-level details of the available Wi-Fi network connections.



Figure 1-25. Available Wireless Networks Screen

Wi-Fi Security Overview

The following security types—including authentication methods and encryption methods—are available:

Basic

- **Open**—No security
- WEP (Open System Authentication)—WEP Open System Authentication does not have an authentication function. It only identifies a wireless node using its wireless adapter hardware address.
- WEP (Shared)—WEP Shared Key Authentication verifies that the wireless client joining the wireless network has been configured with a secret key. With an infrastructure network, all of the wireless clients and the wireless AP (access points) use the same shared key. With an ad hoc network, all of the wireless clients of the ad hoc wireless network use the same shared key.
- WPA-Personal/WPA2-Personal—For infrastructure environments without the RADIUS infrastructure. WPA-Personal (PSK) supports the use of a preshared key. WPA-Personal (PSK) is the next generation of wireless network security for home and small office environments. The WPA-Personal (PSK) protocol uses either WPA-PSK or WPA2-PSK protocols based on the WPA-PSK/WPA2-PSK security protocols available on the AP.

• **CKIP**—Cisco CKIP Open System Authentication does not have an authentication function. It only identifies a wireless node using its wireless adapter hardware address.

Advanced

- **802.1X**—802.1X security enforces authentication of a network node before it can begin to exchange data with the network. This mode is for environments with a Remote Access Dial-In User Service (RADIUS) infrastructure. This environment requires advanced technical support to set up and maintain, and is intended for use by larger organizations.
- WPA-Enterprise/WPA2-Enterprise—The network is operating in 802.1X authentication mode. This mode is for environments with a Remote Access Dial-In User Service (RADIUS) infrastructure. This environment requires advanced technical support to set up and maintain and is intended for use by larger organizations. The WPA-Enterprise protocol uses either WPA or WPA2 protocols based on the WPA/WPA2 security protocols available on the AP.
- CCKM—An authentication method in which a Cisco-branded access point is configured to provide Cisco Wireless Domain Services (WDS) to take the place of the RADIUS server and to authenticate the client very quickly so that there is no perceptible delay in voice or other time-sensitive applications.

WEP - Open System Authentication

WEP - Open System Authentication does not have an authentication function. It only identifies a wireless node using its wireless adapter hardware address.

- The Data Encryption Method is Wired Equivalent Privacy or WEP.
- The Authentication Method is Open.
- Open System Authentication may use a network key for authentication.

WEP (Shared key) Authentication

WEP Shared Key authentication verifies that the wireless client joining the wireless network has been configured with a secret key. With an infrastructure network, all the wireless clients and the wireless APs use the same shared key. With an ad hoc network, all the wireless clients of the ad hoc wireless network use the same shared key.

• The Data Encryption Method is Wired Equivalent Privacy or WEP.

- The Authentication Method is WEP.
- WEP Shared Key Authentication requires a network key for authentication.

CKIP

CKIP - Open System Authentication does not have an authentication function. It only identifies a wireless node using its wireless adapter hardware address.

- The Data Encryption Method is *CKIP*.
- The Authentication Method is *CKIP*.
- A network key for authentication is required.

WPA/WPA2 - Personal Authentication

For infrastructure environments without the RADIUS infrastructure, WPA-Personal (PSK) supports the use of a pre-shared key. WPA-Personal (PSK) is the next generation of wireless network security for home and small office environments. WPA-Personal (PSK) authentication uses either WPA-PSK or WPA2-PSK security protocols based on the WPA-PSK/WPA2-PSK security protocols available on the AP.

- The Data Encryption Method is Auto (TKIP or AES).
- The Authentication Method is WPA-Personal (PSK).
- WPA-Personal Authentication requires a network key for authentication.

802.1X Authentication

802.1X security enforces authentication of a network node before it can begin to exchange data with the network. This mode is for environments with a Remote Access Dial-In User Service (RADIUS) infrastructure.

This environment requires advanced technical support to set up and maintain and is intended for use by larger enterprises.

- The Data Encryption Method is WEP or CKIP.
- The Authentication Method may be one of the following Extensible Authentication Protocol (EAP)* methods:
 - TLS—TLS EAP authentication with no inner authentication. Requires a client certificate.

- TTLS/PAP—TTLS EAP authentication with PAP inner authentication. Requires a username and password.
- TTLS/CHAP—TTLS EAP authentication with CHAP inner authentication. Requires a username and password.
- TTLS/MSCHAP—TTLS EAP authentication with MS-CHAP inner authentication. Requires a username and password.
- TTLS/MSCHAPv2—TTLS EAP authentication with MS-CHAPv2 inner authentication. Requires a username and password.
- LEAP EAP—LEAP EAP authentication with no inner authentication; requires a username and password.
- PEAP/MSCHAPv2—PEAP EAP authentication with MS-CHAPv2 inner authentication. Requires a username and password.
- **PEAP/TLS**—PEAP EAP authentication with TLS inner authentication. Requires a client certificate.
- **PEAP/GTC**—PEAP EAP authentication with GTC inner authentication. Requires a username and password or token.
- **EAP-FAST/NONE**—EAP-FAST EAP authentication with no inner authentication. Requires a username and password.
- **NOTE:** Use to connect to a Cisco Compatible Extensions v3 network. If you are connecting to a Cisco Compatible Extensions v4 network, you must use one of the EAP-FAST inner EAP methods, such as MSCHAPv2, TLS, or GTC.
- EAP-FAST/MSCHAPv2—EAP-FAST EAP authentication with MS-CHAPv2 inner authentication; requires a user name and password. This method has an option for using Cisco Compatible Extensions v4 authenticated provisioning called PAC (Protected Access Credential). If the option for using authenticated provisioning is selected, a client certificate must also be supplied when provisioning a PAC.

NOTE: Use to connect to a Cisco Compatible Extensions v4 network. If you are connecting to a Cisco Compatible Extensions v3 network, you must use the EAP-FAST/NONE method.

EAP-FAST/TLS—EAP-FAST EAP authentication with TLS inner authentication; requires a client certificate. This method has an option for using Cisco Compatible Extensions v4 authenticated provisioning.

- **NOTE:** Use to connect to a Cisco Compatible Extensions v4 network. If you are connecting to a Cisco Compatible Extensions v3 network, you must use the EAP-FAST/NONE method.
- EAP-FAST/GTC—EAP-FAST EAP authentication with GTC inner authentication; requires a user name and password or token. Cisco Compatible Extensions v4 authenticated provisioning is used.

NOTE: Use EAP-FAST/GTC to connect to a Cisco Compatible Extensions v4 network. If you are connecting to a Cisco Compatible Extensions v3 network. you must use the EAP-FAST/NONE method. EAP is a universal authentication framework frequently used in wireless networks.

WPA/WPA2 - Enterprise Authentication

The network is operating in 802.1X authentication mode. This mode is for environments with a Remote Access Dial-In User Service (RADIUS) infrastructure. This environment requires advanced technical support to set up and maintain and is intended for use by large organizations.

WPA-Enterprise security uses either WPA or WPA2 security protocols based on the WPA/WPA2 security protocols available on the AP.

- The encryption method may be TKIP (WPA) or AES (WPA2).
- The authentication method may be one of the following EAP (Extensible • Authentication Protocol) methods:
 - TLS—TLS EAP authentication with no inner authentication. Requires a client certificate.
 - TTLS/PAP—TTLS EAP authentication with PAP inner authentication. Requires username and password.
 - TTLS/CHAP—TTLS EAP authentication with CHAP inner authentication. Requires username and password.
 - TTLS/MSCHAP—TTLS EAP authentication with MS-CHAP inner authentication. Requires username and password.
 - TTLS/MSCHAPv2—TTLS EAP authentication with MS-CHAPv2 inner authentication. Requires username and password.
 - **LEAP**—LEAP EAP authentication with no inner authentication. Requires username and password.
 - **PEAP/MSCHAPv2**—PEAP authentication with MS-CHAPv2 inner authentication. Requires username and password.

- **PEAP/TLS**—PEAP EAP authentication with TLS inner authentication. Requires a client certificate.
- **PEAP/GTC**—PEAP EAP authentication with GTC inner authentication. Requires username and password or token to log on.
- **EAP-FAST/NONE**—EAP-FAST EAP authentication with no inner authentication. Requires a username and password to log on.
- **NOTE:** Use this method to connect to a Cisco Compatible Extensions v3 network. If you are connecting to a Cisco Compatible Extensions v4 network, you must use one of the EAP-FAST inner EAP methods, such as MS-CHAPv2, TLS, or GTC.
- EAP-FAST/MSCHAPv2—EAP-FAST EAP authentication with MS-CHAPv2 inner authentication; requires a user name and password. This method has an option for using Cisco Compatible Extensions v4 authenticated provisioning called PAC (Protected Access Credential). If the option for using authenticated provisioning is selected, a client certificate must also be supplied when provisioning a PAC.
- **NOTE:** Use this method to connect to a Cisco Compatible Extensions v4 network. If you are connecting to a Cisco Compatible Extensions v3 network, vou must use the EAP-FAST/NONE method.
- **EAP-FAST/TLS**—EAP-FAST EAP authentication with TLS inner authentication. Requires a client certificate. This method has an option for using Cisco Compatible Extensions v4 authenticated provisioning.

NOTE: Use this method to connect to a Cisco Compatible Extensions v4 network. If you are connecting to a Cisco Compatible Extensions v3 network, vou must use the EAP-FAST/NONE method.

- EAP-FAST/GTC—EAP-FAST EAP authentication with GTC inner authentication. Requires a username and password or token. Cisco Compatible Extensions v4 authenticated provisioning is used.

NOTE: Use this method to connect to a Cisco Compatible Extensions v4 network. If you are connecting to a Cisco Compatible Extensions v3 network, vou must use the EAP-FAST/NONE method.

CCKM Authentication

An authentication method in which a Cisco-branded access point is configured to provide Wireless Domain Services (WDS) to take the place of the RADIUS server and to authenticate the client very quickly so that there is no perceptible delay in voice or other time-sensitive applications.

- The encryption method may be WEP, CKIP, TKIP or AES.
- The authentication method may be one of the following:
 - **TLS**—TLS EAP authentication with no inner authentication.
 - **LEAP**—LEAP EAP authentication with no inner authentication. Requires username and password.
 - EAP-FAST/NONE—EAP-FAST EAP authentication with no inner authentication. Requires a username and password to log on.
 - **NOTE:** Use this method to connect to a Cisco Compatible Extensions v3 network. If you are connecting to a Cisco Compatible Extensions v4 network, you must use one of the EAP-FAST inner EAP methods, such as MS-CHAPv2, TLS. or GTC.
 - EAP-FAST/MSCHAPv2—EAP-FAST EAP authentication with MS-CHAPv2 inner authentication. Requires username and password. Has option for using Cisco Compatible Extensions v4 authenticated provisioning. If the option for using authenticated provisioning is selected, a client certificate must also be supplied when provisioning a PAC
 - **NOTE:** Use this method to connect to a Cisco Compatible Extensions v4 network. If you are connecting to a Cisco Compatible Extensions v3 network, vou must use the EAP-FAST/NONE method.
 - EAP-FAST/TLS—EAP-FAST EAP authentication with TLS inner authentication. Requires a client certificate. Has option for using Cisco Compatible Extensions v4 authenticated provisioning.

NOTE: Use this method to connect to a Cisco Compatible Extensions v4 network. If you are connecting to a Cisco Compatible Extensions v3 network, you must use the EAP-FAST/NONE method.

EAP-FAST/GTC—EAP-FAST EAP authentication with GTC inner authentication. Requires a client certificate. Cisco Compatible Extensions v4 authenticated provisioning is used. Requires a username and password or token to log on.

- **NOTE:** Use this method to connect to a Cisco Compatible Extensions v4 network. If you are connecting to a Cisco Compatible Extensions v3 network, you must use the EAP-FAST/NONE method.
- PEAP/MSCHAPv2—PEAP EAP authentication with MS-CHAPv2 inner authentication. Requires username and password.
- PEAP/GTC—PEAP EAP authentication with GTC inner authentication.
 Requires username and password or token to log on.

Wi-Fi Encryption Methods

The following Wi-Fi encryption methods are supported:

- WEP—Wired Equivalent Privacy encryption prevents unauthorized reception of wireless data. WEP provides two levels of security, using a 64-bit or a 128-bit key. For stronger security, use a 128-bit key. If you use encryption, all wireless devices on your wireless network must use the same encryption keys. WEP uses an encryption key to encrypt data before transmitting it. Only portable systems using the same encryption key can access the network or decrypt the encrypted data transmitted by other portables. Authentication provides an additional validation process from the wireless network adapter to the wireless access point.
- TKIP—*Temporal Key Integrity* protocol is an enhancement to the WEP security. TKIP provides per-packet key mixing, a message integrity check, and a re-keying mechanism, which fixes the flaws of WEP.
- AES—Advanced Encryption Standard protocol provides a stronger encryption method than TKIP. Choose AES as the data encryption method whenever strong data protection is important.
- CKIP—*Cisco Key Integrity Protocol* is a Cisco proprietary security protocol for encrypting 802.11 wireless and wired networks. CKIP improves security in wireless infrastructure mode using key permutation, message integrity check, an message sequence number. Cisco networking infrastructure is required.

Mobile Broadband Connections

Mobile Broadband, sometimes referred to as WWAN (Wireless Wide Area Network), is a method of wireless data access to the Internet using a mobile operator's cellular network.

Setting up mobile broadband access requires an activated account with a mobile operator. By default, DCP Connection Manager configures your mobile broadband settings with the default settings on your Dell laptop. From DCP Connection Manager, mobile broadband settings can be added, removed, or edited.



NOTE: To establish a mobile broadband account, click the Activate button found on the Connection Status screen when you select Mobile Broadband from the Connection drop-down menu. This button will be labeled Activate only if mobile broadband service is not yet activated with the mobile operator.

To configure global Mobile Broadband settings—a superset of Mobile Broadband settings that may apply to all mobile broadband network connections-click the Mobile Broadband link on the Global Settings screen.

Creating a Basic Mobile Broadband Connection

1 Open DCP Connection Manager→Profiles→Add, select the Mobile Broadband check box, and then click Next. The Profile Wizard Settings screen for mobile broadband appears.

Most if not all of the following configuration information will be populated in this screen if your mobile broadband service is already activated. From this screen, default settings can be edited and mobile broadband connections can be associated with Location Profiles.

2 Enter a unique Connection Name, and select an existing Mobile Broadband Network Connection from the Copy Profile From drop-down list box. Then, click **Copy** to populate most or all of the fields with the network connection details.

Alternatively, you can enter a unique **Connection Name** and create a new mobile broadband network connection by manually entering details in the appropriate fields.



NOTE: To manually edit or add username/password and APN information, Dell recommends that you consult your enterprise systems administrator or your mobile broadband operator for further instructions.

3 Click Next to continue the Profile Wizard settings process, or click **Finish** to view the Profile Wizard Summary page.

Alternatively, you can click Advanced to configure advanced mobile broadband settings.

Figure 1-26. Mobile Broadband Screen

le Wizard	And Address of the Owner, which the Party of	1000
	DØLL	0
Utable Broadband Locations	Please enter a name that you want to give to this profile. This can be any name of your choosing. Connection Name: Field Wireless Copy Profile From: Username: ydresser Password: Confirm Password: APN: A1.net	
	Advanced	
	Cancel Previous Next Finis	h
		_

Advanced Mobile Broadband Settings

- 1 From the **Profile Wizard Mobile Broadband Settings** screen, click **Advanced**, and select one of the following advanced mobile broadband options:
 - Select Enable Connect Prior to Logon if you want to establish a mobile broadband connection prior to user logon to Windows.
 - **NOTE:** Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on Windows Vista operating system, this setting will be disabled.
 - Select Use VPN Connection to automatically start the VPN configured with this network connection.
 - Select Exclude from VPN enforcement if you want to switch the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.
- 2 Click OK.
- **3** Click **Next** to continue the Profile Wizard Settings process, or click **Finish** and the **Profile Wizard Summary** page appears.

Figure 1-27. Advanced Mobile Broadband Window



Activating Your Mobile Broadband Service

- Open DCP Connection Manager→Connection Status→Mobile Broadband→Activate. A mobile-operator-branded or Dell-branded broadband activation screen associated with the mobile broadband device installed on your Dell laptop is launched.
- 2 Click **Continue** to begin the activation process. The activation process differs depending on your mobile operator. Please refer your mobile operator's help documentation (if provided) for activation support.

Alternatively, you can call the mobile operator directly to manually activate the Mobile Broadband service.

- Click Help for information regarding the activation process.
- Click **Close** to cancel the online activation process.
- **NOTE:** To re-activate or retrieve communication updates on demand for your Dell mobile broadband card, go to the **Global Program and Network Settings -Mobile Broadband** screen.



Figure 1-28. Mobile Broadband Activation Screen

SMS Text Messaging

The **SMS Text Messaging** screen allows you to create and send new messages, view received messages, and store contact information.

NOTE: An active mobile broadband network connection is required for SMS text messaging to work.

- 1 Open DCP Connection Manager→Connection Status→SMS Text Messaging. The SMS Text Messaging screen displays.
- 2 To create a new SMS text message:
 - a Click the **compose** icon to create a new message.
 - **b** Enter a recipient name in the addressee field, or click **To** to open the address book and select a contact.
 - **c** Compose a message in the field below the **Addressee** field and click **Send**. A pop-up message appears if the SMS message was sent successfully.

Additional functionality includes:

- Click Check New Messages to view recent messages.
- Click View to switch between Inbox, Outbox, and Sent Box views.
- Select a message and click **Forward** to forward a message to another recipient.

- Select a message and click **Delete** to delete the message.
- Click Delete All to delete all messages in your Inbox.
- Add and delete contacts by clicking on the **Address Book** link, which opens the default contacts directory on your Dell laptop. DCP Connection Manager supports contact directories of the following applications:
 - Windows XP supports Microsoft Outlook[®] and Outlook Express
 - Windows Vista supports Outlook and Windows Contacts

To disable the SMS text messaging application in DCP Connection Manager, go to Program Settings.

NOTE: This setting is configurable only by users with Windows Local Administrator user privileges or better.

Figure 1-29. SMS Text Messaging Screen

5 Text Messaging				
		DØLL		G
	-			
Connection	<u>n Status</u> > SMS	Text Messaging	ess Brok	
Erom	Date/Time	Message		
9497519108	3/4/2008 10	This is a test from QC	. Reply if you ge	:t
Compose				
То			۲ 🔤	Send
				High priority

Ethernet Settings

Ethernet is network connectivity that is wired as opposed to wireless. Ethernet network connectivity examples include Windows local area networks (LAN), cable modems, and DSL. By default, DCP Connection Manager configures your Ethernet settings with the default settings on your Dell laptop. From this screen Ethernet settings can be edited.

- 1 From the **Profile Wizard Settings** screen, select **Ethernet**. DCP Connection Manager automatically populates the Ethernet settings according to current settings on your Dell laptop.
- 2 To change the Ethernet settings for this Location Profile, select the Static address radio button and enter the required IP and DNS information.



NOTE: Enable 802.1x credentials starts the Windows Zero Configuration (WZC) service in Windows XP. WZC service is started by default in Windows Vista.

3 Click **Next** to continue the Profile Wizard Settings process, or click the Finish button to view the Profile Wizard Summary page.

le Wizard		
General Dial-up Enternot Folder sharing Map network drive Internet browser Launch applications Printers VPN Security Network connections Admin	OHCP Enable 802.1x cred Static address P address Prefered DNB: Atternative DNS:	entials 0 . 0 . 0 . 0 0 . 0 . 0 . 0 0 . 0 . 0 .
	Cancel Previou	s Next Finish

Figure 1-30. Profile Wizard Ethernet Screen

Dial-Up Connections

Dial-up is a type of Internet access that uses a telephone line. By default, Connection Manager configures your Dial-up settings with the default settings on your Dell laptop. From DCP Connection Manager, dial-up settings can be added, removed, or edited.

- 1 check box, and then click Next. The Profile Wizard Settings screen for dialup appears.
- 2 Enter a connection name of your choice.

- **3** Enter a dial-up phone number associated with this account.
- 4 Enter a username and password for this account.
- 5 Click Next to continue the Profile Wizard Settings process, or click Finish to reach the **Profile Wizard Summary** page.

Alternatively, you can click Advanced to continue configuring an advanced dial-up network connection and set additional dial-up options.

Figure 1-31. Profile Wizard Dial-Up Screen

General WiFi Mobile Broadband Ethernet Gual Up Folder Sharing Map Network Drive Internet Browser Launch Applications Printers WPAN GPS VPAN Security Network Connections	Please enter a name that profile. This can be any n Connection name: Dial-up phone number: User name: Password:	you want to give to this ame of your choosing. MyDiaUp 555:555:5555 ydresser •••••] Display characters IV Remember password
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Advanced Dial-up Settings

From the Profile Wizard - Dial-up Settings screen, click Advanced. The following advanced dial-up settings are available:

• Enable the Connect Prior to Logon option if you choose to establish a dialup network connection prior to user logon to Windows.



NOTE: Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on Windows Vista operating system, this setting will be disabled.

- Use VPN Connection to automatically start the VPN configured with this network connection.
- Exclude from VPN enforcement switches the Enforce VPN function off for this Location Profile. The Enforce VPN setting is located on the Program Settings screen.
Enable Call Waiting Support. By default, call waiting is disabled when a • dial-up network connection is made.



Figure 1-32. Advanced Dial-Up Settings Screen

Folder Sharing Settings

You can associate shared folders with a Location Profile. By default, the Location Profile Wizard configures your Shared Folder settings with the default settings on your Dell laptop. From this screen, shared folder settings can be added, removed, or edited.



NOTE: The Folder Sharing setup option is available only when associated with a Location Profile (not Network Connections).

- 1 From the **Profile Wizard Settings** screen, select **Folder Sharing**. To add or change these settings for a particular Location Profile, you can do the following:
 - Browse for and select a folder(s) to share when using this Location _ Profile or Network Connection.
 - Click Next to continue the Profile Wizard Settings process.
 - Click Finish to reach the Profile Wizard Summary page.



Figure 1-33. Profile Wizard Folder Sharing Screen

Mapping Network Drive Settings

You can associate a Network Drive and its network folders with defined Location Profiles to be accessible in Windows Explorer when a Location Profile is started. By default, the Location Profile Wizard configures your mapped network drive settings with the default settings on your Dell laptop. From this screen, mapped network drive settings can be added, removed, or edited.



NOTE: The **Map Network Drive** set-up option is available only when associated with a Location Profile (not Network Connections).

From the Profile Wizard Settings screen, select Map Network Drive. DCP Connection Manager automatically populates the Map Network Drive settings according to existing settings on your Dell laptop.

- 1 To add or change these settings for a particular Location Profile, you can do any of the following:
 - Select the network drive to map and enter the path name of the network folder.
 - Click **Browse** to select a drive and network folder.
 - Click Add to map the folder to the drive.
 - Select a a network path from the list, and click **Remove** to delete the mapping.

2 Click Next to continue the Profile Wizard Settings process, or click the **Finish** button to reach the **Profile Wizard Summary** page.



Figure 1-34. Profile Wizard Map Network Drive Screen

Internet Browser Settings

Internet browser settings may be specified for a Location Profile. By default, the Location Profile Wizard configures your Internet Browser with the default settings on your Dell laptop. From this screen, default settings can be edited. The supported Internet Browsers are Internet Explorer[®] and Firefox.



NOTE: The Internet browser set-up option is available only when associated with a Location Profile (not Network Connections).

- 1 From Profile Wizard Settings screen, select Internet Browser.
- **2** To change these settings for a particular Location Profile, do one of the following:
 - Enter an Internet address in the **Home Page** field to specify a default website when you launch your Internet browser.
 - Check **Use Proxy for LAN settings** to optionally configure your Internet browser to use a proxy server to connect to the Internet when on a corporate LAN. In the **Name** field, enter the address of the proxy server to use for Internet access. In the **Port** field, enter the port number that is used by the proxy server (for example, 8080 for a corporate proxy server).

Alternatively, you can select Bypass proxy for local addresses if you do not want to use a proxy server for specific addresses on your corporate LAN.



NOTE: A proxy server acts as a security barrier between your internal network and the Internet, keeping others on the Internet from being able to obtain access to information that is located on your internal network.

3 Click Next to continue the Profile Wizard Settings process, or click Finish to reach the Profile Wizard Summary page.

Launch Applications Settings

You can associate applications with defined Location Profiles to automatically start or stop when a defined Location Profile is started.



NOTE: Launch Applications set-up option is available only when associated with a Location Profile (not Network Connections).

- From the Profile Wizard Settings screen, select Launch Applications. To 1 add or change these settings for a particular Location Profile, do one of the following:
 - Add applications by clicking Add. ٠
 - Remove an application by selecting the application from the list box and clicking Remove.
 - Choose the appropriate action from the drop-down list associated with the application: Applied (start) or Disconnect (stop).
- 2 Click Next to continue the Profile Wizard Settings process, or click Finish to reach the Profile Wizard Summary page.

Figure 1-35. Profile Wizard Launch Applications Screen



Printer Settings

You can associate a printer with a defined Location Profile to be the default printer when a specific Location Profile is started. The Location Profile Wizard configures the default printer settings on your Dell laptop. From this screen, default printer settings can be added, removed, or edited.



NOTE: The printer set-up option is available only when associated with a Location Profile (not Network Connections).

- 1 From the **Profile Wizard Settings** screen, select **Printers**.
- 2 To change the settings for a particular Location Profile:
 - Check the **Enable default printer for this location profile** check box. а
 - b Select a printer from the list box to be the default printer for this Location Profile from a list of printers currently accessible from your laptop.
 - Select Enable default printer for this location profile. C
- Click Next to continue the Profile Wizard Settings process, or click Finish to 3 reach the **Profile Wizard Summary** page.
- Click Add to launch the Windows Add a Printer Wizard. 4

Figure 1-36. Profile Wizard Printers Screen



WPAN Settings

You may enable or disable Bluetooth and UWB (Ultra Wide Band) radios according to a Location Profile. By default, the Location Profile Wizard configures your WPAN (Wireless Personal Area Network) settings with the default settings on your Dell laptop.



NOTE: WPAN set-up option is available only when associated with a Location Profile (not Network Connections).

1 From the **Profile Wizard Settings** screen, select **WPAN**.



NOTE: These settings are visible only if these technologies are installed on your system.

- **2** To change these settings for a particular Location Profile:
 - Click the various radio buttons to make your selections. а
 - b Click Next to continue the Profile Wizard Settings process, or click Finish to reach the Profile Wizard Summary page.

Figure 1-37. Profile Wizard WPAN Settings Screen



GPS Settings

You may enable or disable GPS according to a Location Profile. By default, the Location Profile Wizard configures your GPS setting with the default setting on your Dell laptop. The GPS option is available only when associated with a Location Profile (not Network Connections).



NOTE: GPS is dependent on service availability from your mobile operator.

1 From the Profile Wizard Settings screen, select GPS.

NOTE: This setting is visible only if the technology is installed on your system.

- **2** Click a radio button to change the setting.
- 3 Click Next to continue the Profile Wizard Settings process, or click Finish to reach the Profile Wizard Summary page.



Figure 1-38. Profile Wizard GPS Settings Screen

VPN Settings

You can associate VPN connections with specific Location Profiles that can be manually or automatically started when you connect to a defined network connection within a Location Profile. The Profile Wizard automatically discovers popular VPN clients if they are installed on your Dell laptop. From this screen, VPN clients and VPN profiles can be added or edited.



NOTE: To create a default VPN connection that does not require association with Location Profiles, go to Program Settings.

- 1 From the **Profile Wizard Settings** screen, select **VPN**. The Profile Wizard discovers any supported VPN clients installed on your Dell laptop, and presents them to you in the VPN Client drop-down list.
- 2 Click the VPN Client drop-down list box to select your VPN client. The Profile drop-down list box displays.

The following VPN clients are supported:

- Check Point •
- Cisco Systems •
- Microsoft •
- Nortel Networks •



NOTE: If your VPN client is not listed, you can map to a VPN client application (.exe) installed on your Dell laptop by selecting **Extended** from the VPN Client drop-down list.

3 Click the **Profile** drop-down list box to select the appropriate VPN Profile.

Alternatively, you can click the Add button to create a new VPN Profile. Complete the required fields, and click OK to return to the Profile Wizard Settings screen.



NOTE: Consult the IT administrator that supports your VPN service for details on configuring a new VPN profile.



Figure 1-39. Profile Wizard VPN Screen

Figure 1-40. Create VPN Profile Screen

Profile Name	I
Server IP	
Jsemame	
Password	
Group ID	
Group Password	
Domain	
Device Type	(
evice Type	

4 Click Next to continue the Profile Wizard Settings process, or click Finish to reach the Profile Wizard Summary page.

To automatically start this VPN profile for any of the network connections associated with a Location Profile, go to the respective **Wi-Fi**, **Mobile Broadband**, or **Dial-up Advanced Network** screens and check the **Use VPN Option** check boxes.

Extended VPN Support

1 Select **Extended** from the **VPN Client** drop-down list box. The **Other VPN Application** and **Arguments** fields will appear.

- 2 Click **Browse** to open Windows Explorer and map to the VPN client .exe file.
- **3** Click **OK** to return to the VPN Settings screen.
- 4 Enter any instructions provided by the VPN client provider to enable automatic launch of the VPN client in the Arguments text box.

NOTE: Consult your VPN client software documentation for details.

5 Click Next to continue the Profile Wizard Settings process, or click Finish to reach the Profile Wizard Summary page.

Security Settings

You can associate certain security settings with a Location Profile. By default, the Location Profile Wizard configures your security settings with the default settings on your Dell laptop. From this screen, default security settings can be added, removed, or edited.



NOTE: Security options are available only when associated with a Location Profile (not Network Connections).

- 1 From the Profile Wizard Settings screen, select Security.
- 2 Edit your choices and click **Next** to continue the Profile Wizard Settings process, or click Finish to reach the Profile Wizard Summary page.

Figure 1-41. Profile Wizard Security Settings Screen



Associate Network Connections with Location Profiles

You can associate network connections with a Location Profile from this screen.

- 1 From the Profile Wizard Settings screen, select Network Connections.
- 2 From the Show drop-down list, select the Network Connection Types you want to see in the list boxes.
- 3 From the list of available Network Connections in the Configured Networks box, select the appropriate network connections to associate with the Location Profile by highlighting the Network Connection name(s) and moving them to the Networks to Search box.
- 4 You can remove or disassociate network connections with a Location Profile by highlighting a **Network Connection name** in the **Networks to Search** box and moving it to the **Configured Networks** box.
- 5 Click Next to continue the Profile Wizard Settings process, or click Finish to reach the Profile Wizard Summary page.

You can remove or disassociate network connections with a Location Profile by highlighting **Network Connection name(s)** from the **Networks to Search** box and moving it to the **Configured Networks** box. Click **Next** to continue the Profile Wizard Settings process, or click **Finish** to reach the **Profile Wizard Summary** page.

Figure 1-42. Profile Wizard Network Connections Screen



Global Program and Network Settings

This screen is an interface to a superset of Network Connection and DCP Connection Manager application settings, which are superseded only by Location Profile settings.

- 1 Open DCP Connection Manager→Profiles→Change Settings. The Network Settings screen appears.
- **2** To edit the settings, click one of the associated hyperlinks:
 - Program Settings
 - Hardware Switch
 - Location
 - Mobile Broadband
 - Wi-Fi CatcherTM Network Locator

Program Settings

Program Settings establish global network connection and DCP Connection Manager application parameters that are superseded only by Location Profile parameters. From Program Settings you can also enforce VPN security on any network connections associated with Location Profiles. To access Program Settings, open DCP Connection

Manager \rightarrow Profiles \rightarrow Change Settings \rightarrow Program Settings. The Program Settings screen appears.

The check boxes and fields on this screen allow you to:

- Set System Tray options
- From Available technologies, select the network connection types to be recognized and managed by the DCP Connection Manager.
- Disable the Wi-Fi or Mobile broadband technology whenever an Ethernet (wired) connection is established.
- Configure a default VPN profile that is superseded only by VPN profiles associated with Location Profiles.

To configure a default VPN profile:

- 1 Click the VPN Client drop-down list box to select your VPN client. The Profile drop-down list box appears. The following VPN clients are supported:
 - Check Point
 - Cisco Systems
 - Microsoft
 - Nortel Networks

NOTE: If your VPN client is not listed, you can map to a VPN client application (.exe) installed on your Dell laptop by selecting Extended from the VPN Client dropdown list. See "Extended VPN Support" for more information.

2 Click the **Profile** drop-down list box to select the appropriate VPN Profile.

Alternatively, you can click Add to create a new VPN Profile.



NOTE: Consult the IT administrator that supports your VPN service for details on configuring a new VPN profile.

- 3 Complete the required fields and click **OK** to return to the **Profile Wizard** Settings screen (see Figure 1-40).
- 4 Check **Enforce VPN** to enforce VPN security on all network connections with VPN profiles associated with Location Profiles or with network connections without Location Profile attachment with the Use VPN Connection option selected.



NOTE: The setting for excluding VPN enforcement for a specific Network Connection is available for Wi-Fi, mobile broadband, and dial-up network connections on each of the respective Advanced Network screens.

5 Click OK to return to the Global Program and Network Settings screen.

m Settings	BALL
Settings > Program Setti System Tray Icon Disable Notifications Show XII Networks Available technologies WR-Fi WR-Fi Dial III: Greadem)	YPN YOU can configure this network so that a YPN connection will automatically be started every time you connect VPN Client Claco Systems Profile
Dial Up (modem) GPS Disable on ethernet detect When ethernet detected: Disable Wi-Fi	Smith Micro VPN

Figure 1-43. Profile Settings Screen

Extended VPN Support:

- Select Extended from the VPN Client drop-down list box. The Other VPN 1 Application and Arguments fields will appear.
- 2 Click **Browse** to open Windows ExplorerTM and map to the VPN client .exe file.
- 3 Click **OK** to return to the **Program Settings** screen. Enter any instructions provided by the VPN client provider to enable automatic launch of the VPN client in the Arguments text box.

NOTE: Consult your VPN client software documentation for details.

- 4 Click Next
- **5** To automatically launch this VPN service when making network connections, select the Automatically start VPN on connection check box.
- 6 Check Enforce VPN to enforce VPN security on all network connections associated with Location Profiles and with the Use VPN Connection option selected



NOTE: The setting for excluding VPN enforcement for a specific Network Connection is available for Wi-Fi, mobile broadband, and dial-up network connections on each of the respective Advanced Network screens.

7 Click OK to return to the Global Program and Network Settings screen.

Mobile Broadband

The Mobile Broadband screen provides a superset of parameters used to refine connection, security, and other mobile broadband-related rules.

Lock Code is a security setting for the Subscriber Identity Module (SIM), an integrated circuit installed on your mobile broadband card that contains user and account information. Many GSM-network-based mobile broadband cards are provisioned with a Personal Identification Number (PIN), locking user access to the mobile broadband card and service. When you insert (or connect) a mobile broadband card and/or launch the DCP Connection Manager application, you may be required to enter a PIN provided by your mobile operator.

Mobile operators frequently limit the number of incorrectly entered PIN attempts from three (3) to ten (10). Failure to enter a correct PIN within the number of permitted attempts locks the mobile broadband card. If the mobile broadband card locks, you can re-enable the PIN mechanism by entering a Personal Unblocking Key (PUK). Contact your mobile operator to receive the PUK. After entering a correct PUK, you can reset the PIN.



NOTE: The Lock Code and Network Selection controls are visible only if your mobile operator is GSM-network-based.

- 1 Settings->Program Settings->Mobile Broadband. The following Mobile Broadband settings are available:
 - Connection Mode enables you to set roaming and service selection rules for your mobile broadband service.
 - **Roaming** allows you to set roaming rules when using your mobile broadband service outside your basic coverage area. From the Roaming drop-down box the following options are available:
 - Home—No roaming allowed. .
 - Auto—Roaming is allowed.
 - **Roaming Only**



NOTE: Consult your mobile broadband service agreement for roaming service availability and applicable charges.

- Data Network allows you to set network service selection rules. See Table 1-7 for a list of options based upon the network type (GSM or CDMA) of your mobile operator.
- Network Selection allows you to control the selection behavior (Automatic or Manual) when multiple mobile broadband accounts are configured on your Dell laptop.
- Lock Code
 - Click Enable/Disable PIN Lock to either lock or unlock the SIM ٠ installed on your mobile broadband device.
 - Click Change PIN Code to change the PIN code associated with the SIM installed on your mobile broadband device.
- **Disable SMS**
- Unchecking Show Activation Reminder suppresses the Activation **Reminder** pop-up screen from displaying when DCP Connection Manager starts.
- Activate enables on-demand activation or communication updates of your Dell mobile broadband card with the mobile operator.
- 2 Click **OK** to return to the **Global Program and Network Settings** screen.

GSM	Average Speed	CDMA	Average Speed
Auto	GPRS & 3G	Auto	1x RTT & EVDO
GPRS Only	30 – 90 Kbps	1xRTT Only	60 – 80 Kbps
3G Only	300 Kbps – 1 Mbps	EVDO Only	300 - 800 Kbps

Table 1-7. Network Service Selection Rules

Figure 1-44. Mobile Broadband Settings Screen

Sand	9.99	
D¢		
		_
Settings > Mobile Broadband		
Connection Mode	Other Options	
Roaming Auto	Disable SMS (Admin Mode)	
Data Network	Show Activation Reminder	
	Auto Connect	
/ Network Selection	Activation	
Automatic		
O Manual	Activate	
Calact	high under	
Selett	Deedwork	
CLock Code		
Enable PIN lock		
Change BIBI Code		
CHRIDE FILL COOR.		
		ж

Location Settings

This screen allows you to set Location Profile switching rules when at least one Location Profile is configured on your Dell laptop.

- Open DCP Connection Manager→Profiles→Change Settings→Program Settings→Location. The Location Settings screen appears.
 - Select **Automatic** if you want to enable DCP Connection Manager to connect to the first available network connection.
 - Check **Show Confirmation** if you want to display Location Profile name confirmation messages whenever Location Profiles are applied.
 - Check **Location Order** if you choose to enable DCP Connection Manager to apply the existing order of Location Profiles based upon the first network connection available.

- Check **Auto Promote** if you choose to enable DCP Connection Manager to automatically connect to the next available Location Profile if the current network connection is lost.
- 2 Click OK to return to the Global Program and Network Settings screen.



Figure 1-45. Location Settings Screen

Radio Hardware Switch Settings

The **Radio Hardware Switch** is located on the side or front of your laptop. From this screen you can associate Wi-Fi, Bluetooth, mobile broadband, and other wireless radio technologies and other settings, such as the Wi-Fi Catcher Network Locator feature, to be enabled/disabled from the Radio Hardware Switch located on your Dell laptop.

NOTE: The Radio Hardware Switch feature may not be available on certain Dell laptops.

- 1 Open DCP Connection Manager→Profiles→Change Settings→Hardware Switch.
- 2 Select the appropriate check boxes and click **OK** to return to the **Global Program and Network Settings** screen.

Figure 1-46. Hardware Information Screen

	٥
DØLL	0
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trol the following radios:	
Contactless SmartCard	
1	
Clear All	
_	~
	UK
	gs

Wi-Fi Catcher Network Locator

NOTE: The Radio Hardware Switch feature may not be available on certain Dell portable systems.

If your Dell laptop has a Radio Hardware Switch, you can use its **Dell Wi-Fi CatcherTM Network Locator** feature to scan for specific Wi-Fi networks in your vicinity. The Dell Wi-Fi Catcher Network Locator feature can scan and notify you of available Wi-Fi networks regardless of whether your laptop is turned on or off, in hibernate mode, or in standby mode.

To scan for Wi-Fi networks, slide the **Radio Hardware Switch** over to the far right and hold the switch in this position for a few seconds. An LED located near the Dell Wi-Fi Catcher Network Locator button indicates the progress and results of the scan for Wi-Fi network connections. The following table defines the LED status:

LED Status	Description
Blinking green	Search for Wi-Fi network connection is in progress
Solid green	Found Wi-Fi network connection with a strong signal strength
Solid yellow	Found Wi-Fi network connection with a weak signal strength
LED off	No network connection detected

Table 1-8. LED Status Indicator

NOTE: Because the Wi-Fi Catcher Network Locator feature is not configured for use when your laptop is shipped to you, you must first use DCP Connection Manager to configure the switch to control Wi-Fi network connections.

Enabling Wi-Fi Catcher Network Locator

- 1 Open DCP Connection Manager→Profiles→Change Settings→Wi-Fi Catcher. The Wi-Fi Catcher settings screen appears.
- 2 Select the check box to Enable Wi-Fi Catcher Network Locator.
- **3** Select **Search for ANY available network** or **Search for PREFERRED networks** from the radio buttons.

Alternatively, click **Select Preferred Networks** to associate a discrete list of Wi-Fi networks the Wi-Fi Catcher Network Locator will scan.

4 Click Advanced Settings to select additional Wi-Fi network search options for the Wi-Fi Catcher Network Locator.

Alternatively, click **OK** to return to the **Global Program and Network Settings** screen.

Designate Preferred Networks

- Open DCP Connection Manager→Profiles→Change Settings→Wi-Fi Catcher→Select Preferred Networks. The Preferred Networks screen displays.
- 2 Select a **configured Wi-Fi Network Connection** from the list box on the left and click the **arrow** to move that Network Connection to the **Networks to Search** list box on the right.

If the Wi-Fi network you wish to add is not available in the **Configured Networks** list box, enter a **Wi-Fi network name** (**SSID**) in the **Add SSID to Search** text box and click **Add**. 3 Click OK to return to the Wi-Fi Catcher screen.

S	ettings > Wi-Fi Catcher > Pre	eferred Networks	
	Configured Networks	Network to search	
	AV WI-FI (Cabernet)	Marketing WI-Fi (Merlot)	
	Add SSID to Search:		

Figure 1-47. Wi-Fi Catcher Preferred Network Screen

Advanced Wi-Fi Catcher Settings

- 1 Open DCP Connection Manager→Profiles→Change Settings→Wi-Fi Catcher. Then, click Advanced Settings. The Advanced Configuration screen displays.
- 2 Select your preferred Wi-Fi network strength search criteria.
- **3** Select Wi-Fi bands to scan. A B G N bands are supported.
- 4 Click OK or Apply to return to the Wi-Fi Catcher screen.

Figure 1-48. Wi-Fi Catcher Advanced Configuration Screen



Troubleshooting

The Troubleshooting screen presents resources for diagnosing and correcting network connectivity problems.

To access the Troubleshooting screen, open **DCP Connection Manager** \rightarrow **Troubleshooting**. You can perform the following actions:

- Click a link to one of the User Manual FAQs.
- Click a link to one of the Useful Web Links.
- Click Run Diagnostics.
- Click View hardware details.
- Click **View site survey** to scan a list of detected Wi-Fi access points in your vicinity and associated network details.



Figure 1-49. Troubleshooting Screen

Diagnostics Overview

Diagnostics performs a sequence of tests for each network connection type installed and managed by DCP Connection Manager, and provides pass/fail indicators regarding software, hardware, and network connections:

- Software tests verify that your drivers are installed correctly.
- Hardware tests verify the full functionality of the network adapters for each of the network connection types.
- Network tests verify that networks are online and available.

NOTE: Wi-Fi diagnostics is supported only for the Broadcom Wi-Fi adapter card in DCP Connection Manager 1.0.

Diagnostic Categories	Diagnostic Tests	Diagnostic Test Descriptions
Connection Diagnostics	Associations	Association is the establishment and maintenance of a link between network adapters. When security is enabled, the network adapters exchange only security credentials. This test checks for connectivity, and passes if the client is associated successfully.
	Authentication Test	Tests if the user name, password, and APN entered are correct.
	Local IP Address Test	Verifies the network adapter has been assigned a valid IP Address.
	Gateway IP Ping Test	Pings the gateway IP Address.
	DNS IP Ping Test	Pings the Domain Name Server IP Address.
	Internet Website Domain Ping Test	Test checks if a web host or IP Address is reachable across the Internet with current settings.
LAN Diagnostics	EEPROM Test	This test verifies the content of the EEPROM by reading a portion of the EEPROM and computing the checksum.
		The test fails if the computed checksum is different than the checksum stored in the EEPROM.
	Register Test	This test verifies the read and writes capabilities of the network controller registers by writing various values to the registers and verifying the result. The device driver uses these registers to perform network functions such as sending and receiving information. If the test fails, the network adapter may not be working properly.
	Interrupt Test	Test verifies that the NDIS driver is able to receive interrupts from the LAN adapter.

Table 1-9. Diagnostic Tests and Descriptions

Diagnostic Categories	Diagnostic Tests	Diagnostic Test Descriptions
	Link & Duplex Test	Verifies duplex capabilities of the LAN adapter.
Wi-Fi Diagnostics	Adapter Test	The test passes if the Wi-Fi adapter is present and accessible. The test fails if the Wi-Fi adapter is not present or present but disabled.
	DMA Test	Test verifies that the NDIS driver is able to send packets and receive packets from the Wi-Fi adapter.
	Control Registers Test	Test evaluates the read and write capabilities of the Wi-Fi adapter registers.
	Memory Test	Test determines if the internal memory of the Wi-Fi adapter is functioning properly; the Wi-Fi adapter itself cannot function properly unless its internal memory is functioning.
	Interrupt Test	Test verifies that the NDIS driver is able to receive interrupts from the Wi-Fi adapter.
	Loopback Test	Test verifies that the NDIS driver is able to send packets and receive packets from the Wi-Fi adapter.
	Radio Test	Tests if the Wi-Fi radio is switched on.
Mobile Broadband Diagnostics	Adapter Test	The test passes if the Mobile Broadband adapter is present and accessible. The test fails if the adapter is not present or present but disabled.
	SIM Present Test (GSM only)	Checks if SIM card is present.
	SIM Read Test (GSM only)	Checks if data can be read from SIM card
	Radio Test	Tests if the Mobile Broadband radio is switched on.
	Signal Strength Test	Verifies that the Mobile Broadband signal strength is adequate for data transmission.

Diagnostic Categories	Diagnostic Tests	Diagnostic Test Descriptions
	Temperature	Verifies that the temperature of the Mobile Broadband adapter is in admissible range.
Dial-up Diagnostics	Adapter Test	The test passes if the dial-up adapter is present and accessible. The test fails if the adapter is not present or present but disabled.
	Manufacturer	Verifies device manufacturer.
	Version	Verifies driver version.
	Model Identification	Identifies model of dial-up adapter.
	Dial Tone Test	Checks if dial tone can be detected.

Using Diagnostics

- 1 Open DCP Connection Manager→Troubleshooting→Run Diagnostics. The Diagnostics screen displays. You can expand any of the Diagnostics categories and click on a specific diagnostic test to view a brief description of the test in the Test Information text box.
- 2 Select the diagnostics to run and click **Run Selected**. Pass/Fail test results display adjacent to the individual test.
- **3** Click **OK** to return to the **Troubleshooting** screen.

Alternatively, you can click **View Connection Log**, and the **Connection Log Screen** appears. Or, click **View Status Log**, and the **Status Log Screen** appears.

Figure 1-50. Run Diagnostics Screen



Figure 1-51. Run Diagnostics Results Screen

agnostics ase select the diagnostics you would like to run from the list below. Annuacturer Version Collaroanitation Collaroanitation to diatomation test passes if the Diak-up adapter is present and accessible. The test fails if the apter is not present or present but disabled.		611
agnostics ase select the diagnostics you would like to run from the list below.		
agnostics ase select the diagnostics you would like to run from the list below.		
ase select the diagnostics you would like to run from the list below.	Diagnostics	
Manufacturer Version Version Identification Identificatio Identification Identification Identif	Please select the diagnostics you would	like to run from the list below.
Arestion Version		
Hotel identification Model identification DialToneTest Stinformation testpasses if the Dial-up adapter is present and accessible. The test fails if the pher is not present or present but disabled.	Manufacturer	
DialTone Test X st Information test passes if the Dial-up adapter is present and accessible. The test fails if the apter is not present or present but disabled.	Model Identification	
st Information E test passes if the Diai-up adapter is present and accessible. The test fails if the apter is not present or present but disabled.	DialToneTest 🗶	
e feet passes if the Dia-up adapter is present and accessible. The test fails if the apter is not present or present but disabled.	Test Information	
apter is not present or present but disabled.	The test passes if the Dial-up adapter is	present and accessible. The test fails if the
	adapter is not present or present but dis	abled.
w Connection Log Run Selen	View Connection Log	Stop Run Selecte
w Status Log		
	View Status Log	

Connection Log

The Connection Log screen provides real-time data of your network connections activity. From the **Connection Log** screen, you can filter data in the log, export the log to a file using the current filter, or you can clear the log.

1 Open DCP Connection

Manager \rightarrow Troubleshooting \rightarrow Diagnostics \rightarrow View Connection Log. From the Connection Log screen, you can do the following:

- To view a specific Network Connection, select the **Connection Type** check box and select a **Network Connection Type** from the drop-down list.
- To filter a date range, check the **Date Range** check box and select a date range.
- Click **Export** to save the log in an exportable file format.
- Click **Clear** to clear the log.

2. Click **OK** to return to the **Diagnostics** screen.

Figure 1-52. Connection Log Screen

			E	xport Cle	16
Connection	Date/Time	Duration	IP Address	Bytes Received	-
Unknown		00:00:00		0	
Unknown		00:00:00		0	
Unknown		00:00:00		0	
Wi-Fi	4/2/2008 1:12:	00:00:00		0	
Wii-Fi	4/6/2008 11:41	00:00:00	192.168.1.101	25543136	
wa Ei ≮	4/01/000 4-10-	00-00-00	103 100 1 101	24660102	>
View:	onnection Type: ate Range: Fro	m: 01 01 200	78 👻 To: D4	• 14.2008 ··	

Status Log

The Status Log screen reports on network connection and application-level events.

- 1 Open DCP Connection Manager→Troubleshooting→Run Diagnostics→View Status Log. From the Status Log screen you can do the following:
 - To filter the Status Log, select the **Status Type** check box and choose a category from the **Status Type** drop-down list.

- To filter a date range, select the **Date Range** check box and choose a date range.
- Click **Export** to save the log in an exportable file format.
- Click **Save** to keep a record of the log file.
- Click **Clear** to clear the log.
- 2 Click OK to return to the Run Diagnostics screen.

Figure 1-53. Status Log Screen

<u>Settings</u> > Status	Log	
Date/Time	Details	r. 7
3/25/2008 12:29 45 PM	Program Settings Changed	-8
3/25/2008 12:28:51 PM	Profile creation succeeded for Home	
3/25/2008 12:28:51 PM	WAN Profile creation succeeded for dial up	
3/25/2008 12:21:33 PM	State changed to : Not Found	
3/25/2008 12:21:32 PM	WAN State changed to : Idle	
3/75/7008 17:71:37 PM	WAN State channed to 1 linknown	5
View:	From: 01.01.2008 V	5

Network Status Details

The **Network Status Details** screen provides lower-level details of the Network Connection selected.

- 1 Open DCP Connection Manager→Connection Status→View Network Status Details. The Network Status Details screen appears.
- 2 Click OK to return to the Connection Status screen.

Figure 1-54. Network Status Details Screen



Hardware Details

The Hardware Details screen displays hardware details for each of the network connection types installed on your Dell laptop and being managed by the DCP Connection Manager.



NOTE: If a Network Connection Type is not recognized by Windows device manager, then the network connection technology will not be listed in the dropdown list.

All hardware information available is shown on this screen.

- 1 The Hardware Details screen appears.
- 2 Select a Network Connection Type from the Board drop-down list to view the associated Hardware Details.
- **3** Click **OK** to return to the **Troubleshooting** screen.

Figure 1-55. Hardware Details Screen



Software Version Information

- 1 Click the question mark in the upper right corner of the **DCP Connection Manager** screen.
- 2 Select About. The Software Information screen appears.
- 3 Click OK to return to the Troubleshooting screen.

Figure 1-56. About DCP Connection Manager Screen



Wi-Fi Networks Site Survey

The **Available Wi-Fi Networks** screen monitors and displays detailed information on detected Wi-Fi access points. Data is updated continuously until you click one of the Wi-Fi network connections displayed.

- 1 Open DCP Connection Manager→Troubleshooting→View Site Survey. The Available Wi-Fi Networks screen displays.
- 2 To filter for a specific Wi-Fi access point, select the access point (Network Name) from the Select networks to be monitored drop-down box and click Search.
- **3** Click **Start/Freeze** to start or stop the continuous scan for Wi-Fi. The following functions are available:
 - Click the **Options** drop-down list to change the scan interval and sort order of the network names displayed.
 - Click **Start Logging** to open a **Save As** dialog box and start logging data to a file.
 - Double-click a **Network Name** to create a Wi-Fi network connection through the **Profile Wizard**.

Available Wi-Fi Networks DELL Link Status > Available Wi-Fi Networks Searching for all networks... Start Longing Network Name Type Security 802.11 Speed Channel Signal C 00 tavior 54 8 d 0 00 linksys 54 6 1 0 00 Mike 54 6 1 00 Susan 54 6 Select networks to be monitored All Networks Freeze

Figure 1-57. Available Wi-Fi Networks Screen

Frequently Asked Questions

Why can't I find any wireless networks?

Verify that the Wi-Fi radio is enabled and that the Radio Hardware Switch, located on the Dell laptop, is in the ON (middle setting) position. To enable the Wi-Fi radio, open DCP Connection Manager and check the Wi-Fi check box in the Radio Controls section of the Device Status screen.



NOTE: Ensure that the **Airplane Mode** check box is also unchecked.

The Radio Hardware Switch, which may control the Wi-Fi radio function, may be turned off. To check if the Radio Hardware Switch controls the Wi-Fi radio function, open DCP Connection Manager -> Profiles -> Change Settings-Hardware Switch. If the Wi-Fi radio is enabled, verify that the Radio Hardware Switch is in the ON (middle setting) position.



NOTE: The Radio Hardware Switch feature may not be available on certain Dell portable systems.

Enable the Wi-Fi Catcher Network Locator feature. Open DCP Connection Manager \rightarrow Profiles \rightarrow Change Settings \rightarrow Wi-Fi Catcher. Select the Enable Wi-Fi Catcher Network Locator check box to associate the Wi-Fi Catcher Network Locator feature with the Radio Hardware Switch. Next, activate the Wi-Fi Catcher Network Locator from the Radio Hardware

Switch by sliding the switch to the far right toward the antenna icon and holding the switch in this position for a few seconds, then letting go of the switch.

- The Disable on Ethernet Detect function may be turned on.
 - Open DCP Connection Manager→Profiles→Change Settings→Program Settings.
 - Verify that the **Disable Wi-Fi** check box is unchecked.
- Weak Wi-Fi radio signal due to interference from other equipment or from having your Dell laptop outside the wireless access point boundary region. To resolve the issue, try moving closer to the Wi-Fi access point or connect to another Wi-Fi network.
- Run the Wi-Fi diagnostic tests on the Diagnostics screen to see if there are any problems with the Dell wireless LAN card, wireless software, or wireless network. Open DCP Connection Manager→ Troubleshooting→Run Diagnostics.
- Verify from the **Connection Status** screen that you have an already configured Wi-Fi network connection.

Why can't I connect to a wireless network?

- If you are trying to connect to a basic Wi-fi network, the Key information entered may be incorrect. Check to ensure you have the correct Key and that it is typed in accurately.
- If you are trying to connect to an advanced Wi-Fi network, the encryption and security settings may not match the Wi-Fi network. Check with the IT administrator that supports your organization's wireless network for further support.
- Weak Wi-Fi radio signal due to interference from other equipment (microwave oven, cordless phone) or from having your Dell laptop outside the wireless access point boundary region may be the problem. To resolve the issue, try moving your Dell laptop closer to the Wi-Fi access point or connect to another Wi-Fi network.
- Run the Wi-Fi diagnostic tests found on the Diagnostics screen to see if there are any problems with the Dell wireless LAN card, wireless software, or wireless network. Open DCP Connection
 Manager→Troubleshooting→Run Diagnostics.

Verify from the Connection Status screen that you have an already configured Wi-Fi network connection.

Why is my Internet connection so slow?

- You may be using a dial-up network connection to access the Internet. Try switching to a faster network connection type such as Broadband Cable, DSL, Ethernet, Wi-Fi or Mobile Broadband.
- Using a Wi-Fi network to access a faster network connection type (Broadband Cable, DSL, or high speed LAN to reach the Internet will impact connection speed. Weak Wi-Fi radio signal due to interference from other equipment or from having your Dell laptop near the wireless AP boundary region may further impact connection speed. To resolve the issue, try moving closer to the Wi-Fi access point or connect to another Wi-Fi network.
- Accessing the Internet over a VPN will impact connection speed. Disconnect ٠ the VPN whenever it is not required. Refer to VPN Settings within DCP Connection Manager Help, or refer to the documentation from the provider of the VPN software application installed on your Dell laptop.
- Run the diagnostic tests found on the Diagnostics screen to see if there are any problems with the network adapters or network software installed on your Dell laptop. Open DCP Connection Manager \rightarrow Troubleshooting \rightarrow Run Diagnostics.

How do I activate my Dell mobile broadband card?

See "Activating Your Mobile Broadband Service."

Administrator Operations

This chapter provides a central reference place to the DCP Connection Manager tasks typically used by system administrators and help desk personnel.



NOTE: Many of these tasks are available only to users with Windows Local Administrator account privileges or better.

- Local Administrator Only functions ٠
- Enterprise Branding
- Command Line Switches
- Profile Creation and Distribution Options
- Profile Security
- Connect to a Network Prior to Windows Logon
- Third-Party GINA Support for Windows XP
- Troubleshooting

Administrator-Only Functions

Administrator-only functions are available only to users with Windows Local Administrator account privileges or better. These functions are not available to users with Windows Local User account privileges.

- Program Settings
 - Enable/disable SMS
 - Enforce VPN (terminate network connection if a VPN associated with a network connection is disconnected)
- Profile Security
 - Lock Location Profiles and Network Connections so they can not be unlocked or removed by unauthorized users.
- Network Connection settings
 - Enable Connect Prior to Logon for Wi-Fi, mobile broadband, and dialup network connections.

Profile Security

Profile security and access control is available only to users with Local Administrator or better user account privileges through the **Admin** screen.

- 1 From the **Profile Wizard Settings** screen, select **Admin**.
- 2 Edit your choices and click **Finish** to reach the **Profile Wizard Summary** page.

Figure 1-58. Profile Wizard Admin Screen



Profile Distribution Options

Administrators can create Location Profiles and export and save them as a separate .xml file for distribution as part of a hard disk image or installation after client systems have been deployed.

The following two methods are available for distributing saved profiles to other Dell portable systems:

- Import .xml profiles locally by running the Import Settings function from within DCP Connection Manager.
- Distribute .xml profiles remotely using any software management system or Microsoft

Windows Group Policy Objects based on a predefined policy. The steps required for creating and distributing .xml profiles are as follows:

- 1 Create a profile using the DCP Connection Manager Profile Wizard. To start the Profile Wizard open DCP Connection Manager→Profiles, then click Add. Complete all of the Profile Wizard screens necessary to include all the Network Connections and Network and User-Related Location Profile Settings for the profile you want to create.
- 2 Go to the Global Program and Network Settings screen to set any global application settings for the profile you want to create. Open DCP Connection Manager→Profiles→Change Settings.

3 To export and save a profile, open **DCP Connection**

Manager \rightarrow **Profiles** \rightarrow **Export Profiles and Settings**. There are five filter options available for selecting Location Profiles, Network Connections, and Network-Related Settings to export using the DCP Connection Manager Export feature:

- Location Profiles—Includes all Location Profiles (and Network Connections and Network and User-Related Location Profile Settings) only
- All Networks—Includes all network connections only
- Mobile—Includes mobile broadband network connections
- Wi-Fi—Includes Wi-Fi network connections
- **Dial-up**—Includes dial-up network connections

To export a profile:

- **a** Choose the profile type to export.
- **b** Select and move **Location Profiles** or **Network Connections for export** from the list box on the left and move to the right list box.
- **c** Make an import handling choice:
 - **Include adapter settings** check box supports only Wi-Fi adapter settings today.
 - **Include program settings** check box exports all Global Program and Network Settings.
 - Check **Include Credentials** check box to include all credential and security information such as usernames, passwords, and network security keys in the encrypted export .xml file.
- d Click OK to open the Save As screen.
- Save the file as an .xml file. Before importing this file, you must rename the file "NetworkUCM.xml."
- f Click Save to return to the Export screen.
- 4 Import or distribute the .xml profile into the System32 folder of Windows: C:\\Windows\System32\NetworkUCM.xml. To use the Import Profiles and Settings option available within DCP Connection Manager:
 - a Open DCP Connection Manager→Profiles→Import Profiles and Settings. The Windows Explorer screen opens.

- Locate the saved .xml profile file for import and rename the file b "NetworkUCM.xml" if the file is named differently.
- Click Open to run the Import routine of the NetworkUCM.xml file into C the System32 folder of Windows: C:\\Windows\System32\NetworkUCM.xml. The Windows Explorer screen closes.



NOTE: You can distribute the .xml profiles remotely using any software management system or Microsoft Windows Group Policy Objects based on a predefined policy.

Enterprise Branding

DCP Connection Manager allows for customizable enterprise branding elements in two separate sections of the application:

- From the Connection Status screen, one or more domain names and unique images may be used to replace the default domain name and icon of a network connection. This is the rightmost icon in the Connection Status Screen diagram.
- From the Troubleshooting screen, two custom links can be added: one FAQ • Link and up to three Web Links. The Troubleshooting FAQ and Web Links elements may be localized for any number of the 13 supported languages by appending a language code to a Title tag and typing the Title string in the associated language. The DCP Connection Manager language version running on the Dell notebook will reflect the language appropriate FAQ Link and Web Link titles at runtime.

Enterprise Branding is configurable from an XML file located at: C:\Program Files\Dell\DellControlPoint\Connection Manager\EnterpriseBranding.xml.



NOTE: Restarting DCP Connection Manager is required for the changes to take effect.

The Enterprise Branding configuration file is depicted below:

```
<?xml version="1.0" ?>
  <Branding xmlns:xsi=
  "http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <ConnectionSettings>
```

<Domain>

<Name>domain1</Name>

<Image>domain1.png</Image>

</Domain>

<Domain>

<Name>domain2</Name>

<Image>domain2.png</Image>

</Domain>

</ConnectionSettings>

<Troubleshooting>

<!--FAQLink ID="1" Link= "http://help.html#dostuff">

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<Title-es>Cómo a rellene</Title>

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</Branding>

Language	Language Sub Tag
Chinese (Simplified)	zh-CHS
Chinese (Traditional)	zh-CHT
Danish	da
Dutch	nl
English	en
French	fr
German	de
Italian	it
Japanese	ja
Korean	ko
Norwegian	no
Polish	pl
Portuguese	pt
Russian	ru
Spanish	es
Swedish	SV

Table 1-10. Supported ISO Standard Language Codes

Command-Line Switches

Command-line switches are used to modify a command-line instruction away from default behavior. They can be used at install time or run time, and are primarily used by experienced IT administrators and users.

• **Install Time Command-Line Switches**—Command-line switches can be used during installation of DCP Connection Manager when they follow the executable name. For example:

Setup.exe /s

See Table 1-11 for a list of currently supported install-time switches.

Function	Switch
Summary of available command line switches	/?
Silent install	/s
Silent uninstall application + driver	/remove
Silent repair	/repair
Install application without drivers	/bypass
Trust Third-Party GINA (applies only to Windows XP)	/trust
Import profiles after install via command- line versus using the Import Settings	/import [full path to file]
screen in DCP Connection Manager user interface.	Example:
	/import C:\temp\networkucm.xml
	NOTE: The profile .xml file must be renamed "networkucm.xml" prior to executing the import command.
Generate installation log in working directory	/record
Skips corresponding driver installations. The /bypass switch skips all driver installations.	 /skip_1—Intel[®] Gigabit LAN /skip_2—Novatel WWAN /skip_3—Ericsson WWAN /skip_4—Conexant /skip_5—Broadcom LAN /skip_6—Broadcom WLAN /skip_7—Intel WLAN Example: setup.exe /skip_1 /skip_5

 Table 1-11.
 Supported Install-Time Switches

Function	Switch
Disable corresponding network adapters	• /disable_broadband
	• /disable_dialup
	 /disable_ethernet
	• /disable_gps
	• /disable_wifi
	Example:setup.exe /disable_broadband /disable_dialup

• Run Time Command-Line Switches—Run time switches can be used after the DCP Connection Manager application has been installed. For example:

Dell.UCM.Console.exe /export

See Table 1-12 for a list of currently supported run-time switches.

Function	Switch
Export profiles via command-line versus using the Export Settings screen in DCP Connection Manager user interface.	<pre>/export [profile1, profile2,] [/a] [/p] [/f] {output filename} where</pre>
	/a = export adapter settings
	/p = export program settings
	/f = specify output file path
	Example:
	<pre>/export profile1, profile2 /p /f C:\output.xml</pre>
	NOTE: The profile .xml file must be renamed "networkucm.xml" prior to executing an import command.

Table 1-12. Supported Run-Time Switches

Single Sign-On

Connect to a Network Prior to Windows Logon

The option to make a specific network connection prior to passing Windows logon user name and password credentials to authenticate and attach the user to a network domain is handled via a Connect Prior to Logon option and applies to the following network connection types:

- Wi-Fi
- Mobile Broadband •
- Dial-up

NOTE: The Connect Prior to Logon feature is available in this software release only on the Windows XP operating system. If you are running DCP Connection Manager on Windows Vista operating system, this setting will be disabled.

Wi-Fi

- 1 Open DCP Connection Manager.
 - For a new connection:

Open **DCP Connection Manager**→**Profiles**, then select the **Wi-Fi** checkbox and click **Next**. The **Profile Wizard Settings** screen for Wi-Fi appears.

• For an existing connection:

Open **DCP Connection Manager**→**Profiles**. Right-click the network connection name and select **Properties** from the drop-down box to open the associated **Profile Wizard Settings** screen.

- 2 Click Advanced to open the Advanced Wi-Fi Network Connection screen.
- 3 Select the Enable Connect Prior to Logon check box.
- 4 Click OK to return to the Profile Wizard Settings screen for Wi-Fi.

Mobile Broadband

- 1 Open DCP Connection Manager.
 - For a new connection:

Open DCP Connection Manager \rightarrow Profiles \rightarrow Add. Select the Mobile Broadband check box, then click Next. The Profile Wizard Settings screen for mobile broadband appears.

• For an existing connection:

Open **DCP Connection Manager**→**Profiles**. Right-click the network connection name and select **Properties** from the drop-down box to open the associated **Profile Wizard Settings** screen.

- 2 Click Advanced to open the Advanced Mobile Broadband Network Connections screen.
- **3** Select the **Enable Connect Prior to Logon** check box.
- 4 Click **OK** to return to the **Profile Wizard Settings** screen for mobile broadband.

Dial-up

- 1 Open DCP Connection Manager.
 - For a new connection:

Open DCP Connection Manager \rightarrow Profiles \rightarrow Add, then select the **Dial-up** check box and click **Next**. The **Profile Wizard Settings** screen for Dial-up appears.

• For an existing connection:

Open **DCP Connection Manager** \rightarrow **Profiles**, then right-click the network connection name and select **Properties** from the drop-down menu to open the associated **Profile Wizard Settings** screen.

- 2 Click Advanced to open the Advanced Dial-up Network Connection screen.
- 3 Select the Enable Connect Prior to Logon check box.
- 4 Click OK to return to the Profile Wizard Settings screen for Dial-up.

Third-Party GINA Support for Windows XP

ControlPoint supports and trusts third-party GINA (Graphical Identification and Authentication) files that strictly conform to Microsoft's GINA model and dialogs. ControlPoint's GINA hook allows another application's GINA to prompt for user credentials. Otherwise, Connection Manager and the third-party application both independently prompt for user credentials.

For Windows XP, follow these steps to establish a third-party application GINA trust relationship:

- 1 Install the third-party application before DCP Connection Manager.
- 2 Install DCP Connection Manager, create your network connections, and select the **Connect Prior to Logon** check boxes for the appropriate network connections.
- **3** From the command line, set the Trust switch, as follows:

/trust