Wireless Manager 5

User Guide

Sony Ericsson

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About this guide

This guide describes how to use Wireless Manager software to configure and operate a Sony Ericsson PC Card.

Note:
Be sure to read all safety guidelines in your *PC Card User Guide* before using your PC Card.

Wireless Manager includes the following tools to meet your needs:

- Wireless Manager. This is the application you use to configure and manage mobile network connections, send and receive SMS messages and access the SIM Phonebook.
- Sony Ericsson PC Card drivers, which are required to operate your PC Card.

Note:
Some of the features that Wireless Manager supports might not be available for your PC Card. For detailed information about features that your PC Card supports, refer to your PC Card documentation. Also, your mobile operator may have customised Wireless Manager to remove features that are not supported on your network.

How this guide is organized

Chapter 1: Getting Started on page 1, contains an overview of Wireless Manager and the system requirements to run the software.

Chapter 2: Installing and Uninstalling on page 3, contains instructions for installing your software and PC Card. This chapter also provides information about where the drivers are located on the Wireless Manager CD.

Chapter 3: Using Wireless Manager on page 10, describes the basic instructions for starting and closing Wireless Manager and making mobile network connections.

Chapter 4: Wireless Manager – Status Window on page 16, describes the status information provided by Wireless Manager. This chapter also describes the Wireless Manager Icon in the Notification Area next to the clock.

Chapter 5: Wireless Manager – Settings Window on page 23, describes how to configure the settings for your PC Card, such as SIM lock, operational preferences and mobile networks.

Chapter 6: Wireless Manager – Phonebook Window on page 34, describes how to add, delete, and modify Phonebook entries.

Chapter 7: Wireless Manager – Text Messages Window on page 39, describes how to create, read, and organize your SMS messages.

Chapter 8: Pre-Configuration of Wireless Manager on page 44, describes how you can pre-configure Wireless Manager for deployment to corporate users.

Chapter 9: Troubleshooting on page 45, provides help for some of the most common issues that you might encounter when using your PC Card.

Appendix A - Connection Parameters on page 50, provides a checklist of all the parameters you may need to set up a connection profile.

Appendix B - Defining Connections in Windows on page 51 tells you how to make connections using the Windows® Dial-Up Networking feature.

Appendix C - Additional Information on page 55 provides further information and the end-user licence agreement for Wireless Manager.

Additional resources can be found on the CD that came with your Sony Ericsson PC Card or on the Internet at the Sony Ericsson support Web site: www.sonyericsson.com/support.

Publications

Sony Ericsson provides the following documents with your Sony Ericsson PC Card. The PDF documents are in Adobe® Portable Document Format and are included on the CD-ROM. They are also copied to your hard drive when the Wireless Manager software is installed. All of the documents are also available for download at www.sonyericsson.com/support

- A printed *Quick Start Guide* aimed at getting you operational as quickly as possible.
- A PDF *Wireless Manager User Guide* (included on the CD) provides a comprehensive description of how to install and use your PC Card with the Sony Ericsson Wireless Manager application. Wireless Manager enables you to set up and make Internet connections, send and receive text messages and manage your Phonebook.
- A PDF *PC Card User Guide* that contains a detailed description of your Sony Ericsson PC Card and the features that it supports.

Note:
If necessary you can download and install the Adobe® Reader® from www.adobe.com.

Your mobile operator may provide alternative application software and documentation.

Sony Ericsson support Web site

You can visit the Sony Ericsson Web site to find the most up-to-date product information and support wherever you are. It gives you access to online customer services, online user manuals, the latest software downloads, and other useful information. The address is:

www.sonyericsson.com/support

Conventions used in this guide

This document uses the following conventions:

Convention	Description
Bolded text	When describing window elements that require you to click or type, such as a button, field, or icon, the name of the window is displayed as bolded text. For example, click **OK**.
Italicized text	Cross-references and other publications: These items are displayed as *italicized* text within this document. For example: For more information about installing Wireless Manager, see *Installing and Uninstalling* on page 3.
<*variables*>	Information that is specific to you, such as where your Windows® temp directory is located or the letter that is used to access your hard drive, is represented as a variable. Variables are displayed as italicized text between left and right angle brackets <>. For example, to install Wireless Manager on your hard drive, select <*your_drive*>, where <*your_drive*> is the letter of your hard drive.
Notices	**Notes:** These notices provide important tips, guidance, or advice. **Caution:** These notices help you avoid situations that might result in the loss of data, signal, or service. **Important:** These notices alert you to unsafe practices and situations that could potentially result in *minor* injury to your PC Card or computer.

Getting Started

Congratulations and thank you for purchasing a Sony Ericsson PC Card.

Your Sony Ericsson PC Card comes with the Wireless Manager software application. Wireless Manager provides a set of tools that you can use to configure and manage wireless connections on your laptop computer.

You can use Wireless Manager to:

- Connect to the Internet or a corporate network
- Display mobile network status information
- Create or modify connection settings
- Manage your Sony Ericsson PC Card settings
- Manage Phonebooks for your SIM card and laptop computer
- Send and receive SMS messages

Before you begin

This section lists the network subscriptions and hardware and software requirements for using your **Sony Ericsson PC Card**.

Network and subscription

The network subscription that you use depends on which services are available from your network operator. Contact your network operator or service provider to make sure the options that you require are available. Make sure that data options are included in your subscription, as these are usually optional services.

Note:
Network operators often provide multiple connection options via HSDPA/UMTS/EDGE/GPRS such as WAP, MMS, and Internet. Verify the services that you require, such as Internet, e-mail or corporate VPN (Virtual Private Network) service is available through your network operator and enabled on your subscription.

This section describes the mobile network services supported by Sony Ericsson PC Cards. Check your *PC Card User Guide* for information about supported services for your specific model.

General Packet Radio Service (GPRS)

GPRS is a type of network connection which provides “always on” mobility. The connection setup is fast and, once connected, applications may send and receive data whenever required. In today’s GPRS networks, the Sony Ericsson PC Card receives data at speeds up to 53.6 kbps and transmits at speeds up to 26.8 kbps.

Enhanced Data Rates for Global Evolution (EDGE)

EDGE enhances GPRS by increasing data throughput by a factor of 3. GPRS networks enhanced with EDGE are often referred to as Enhanced GPRS (E-GPRS) networks. EDGE provides the "always on" capability of GPRS but at faster speeds. EDGE technology is transparent. Simply make a GPRS connection as usual and benefit from the increase in speed where EDGE is available in a network. When EDGE is available you can expect increased speeds of up to 200 kbps, dependent on network coverage.

Universal Mobile Telecommunications System (UMTS)

UMTS is a 3G technology standard for wide-area wireless data communication. The UMTS standard uses advanced network operator mobile Internet services to achieve data transfer rates up to 384 kbps, which are ideal for connecting your laptop to the Internet or a corporate network.

High Speed Downlink Packet Access (HSDPA)

HSDPA is an enhancement to UMTS networks which enables the downlink speed to be dramatically increased. File downloads will be faster, while applications such as video streaming may operate at higher quality and greater reliability. The maximum speed available depends on the configuration of the mobile network and local conditions such as distance to the base station. Uplink speed remains 384 kbps.

Short Message Service (SMS)

The PC can send and receive SMS text messages using the SMS Messages window in Wireless Manager, see *Wireless Manager – Text Messages Window* on page 39, for more details.

System requirements

Wireless Manager works with the following versions of the Windows® operating system:

- Windows 2000 Service Pack 4 (SP4)
- Windows XP Service Pack 2 (SP2); 32-bit (x86) and 64-bit (x64) processors
- Windows Vista™; 32-bit (x86) and 64-bit (x64) processors

Your laptop PC must meet or exceed the minimum system requirements for the installed version of the Windows operating system and have the following:

- A 32-bit CardBus type II PC Card slot
- 110MB of available disk space

You also will need the following items and information:

- SIM card with an appropriate network subscription
- Wireless Manager CD that is included with your PC300. Alternatively, you can download the software from the Sony Ericsson support Web site: www.sonyericsson.com/support.

Note:
Sony Ericsson periodically releases new versions of Wireless Manager with new features and bugfixes. The exact support for the Windows Operating System may change over time. The readme.txt file on the CD-ROM and in the download always identifies which versions and service packs of the Windows operating system are supported. For more information and downloads, please visit www.sonyericsson.com/support.

Installing and Uninstalling

The Wireless Manager CD-ROM contains the software required to operate your Sony Ericsson PC Card.

Make sure that the GSM/UMTS services that you require are included on your SIM card subscription. For an explanation of the services that are supported see *Network and subscription* on page 1. Contact the organization that supplied you with your SIM card and request that the specific services (UMTS, HSDPA, GPRS/EDGE and SMS) you require are added to your subscription.

The Wireless Manager CD-ROM contains the following:

- Wireless Manager software
- User documentation
- Online help
- Readme text file containing the latest information about your Sony Ericsson PC Card
- Sony Ericsson PC Card drivers

Installing your software

Before you insert your PC Card into your computer, install the software.

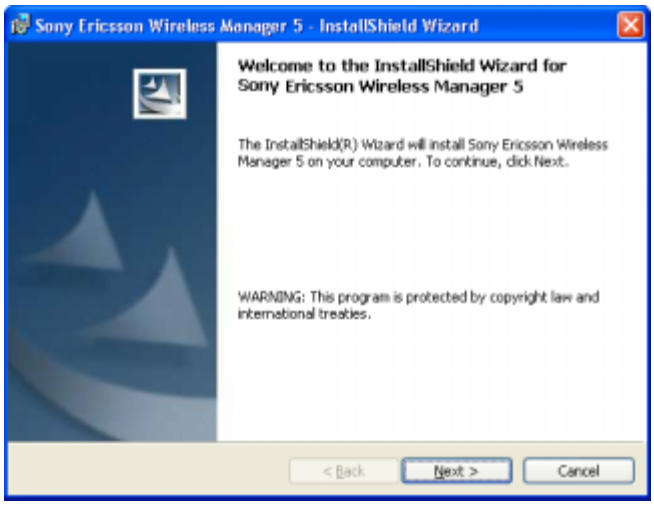
Important!
You must have Administrator rights to install Wireless Manager.

Note:
If Microsoft® .NET™ 2.0 or later is not installed on your PC, you will be prompted to install it.

To install Sony Ericsson Wireless Manager on your computer

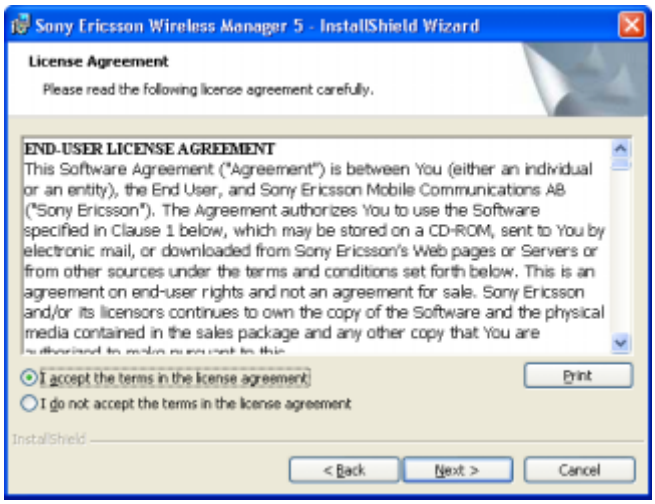
1. Insert the Sony Ericsson Wireless Manager CD-ROM in your CD drive.

   After a few seconds, the Wireless Manager 5 Welcome window is displayed.

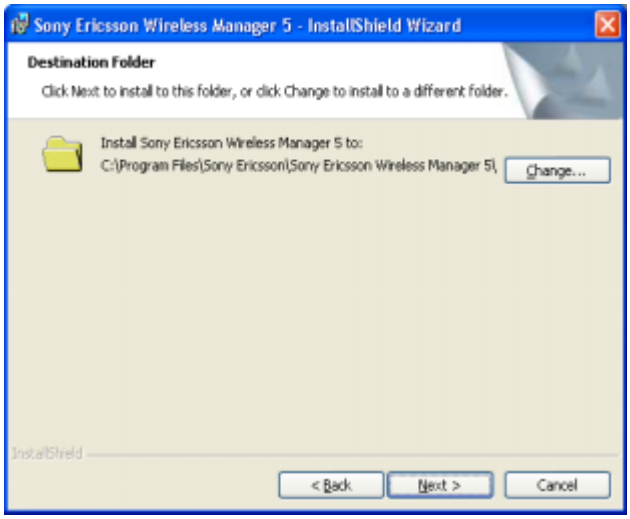


Note:
If the CD-ROM does not automatically start, select **Start** ➡ **Run**, (Windows Vista: **Start** ➡ **All Programs** ➡ **Accessories** ➡ **Run**) and then type D:*Setup.exe in the* ***Open*** *field* (where *D* is the letter of your CD drive).

2. Click **Next**. The License Agreement window is displayed.

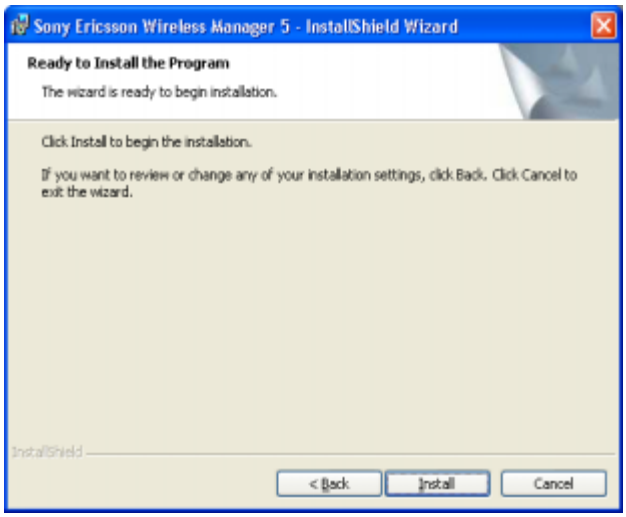


3. Read the license agreement and select **I accept the terms in the license agreement**. Click **Next**. The Destination Folder window is displayed.



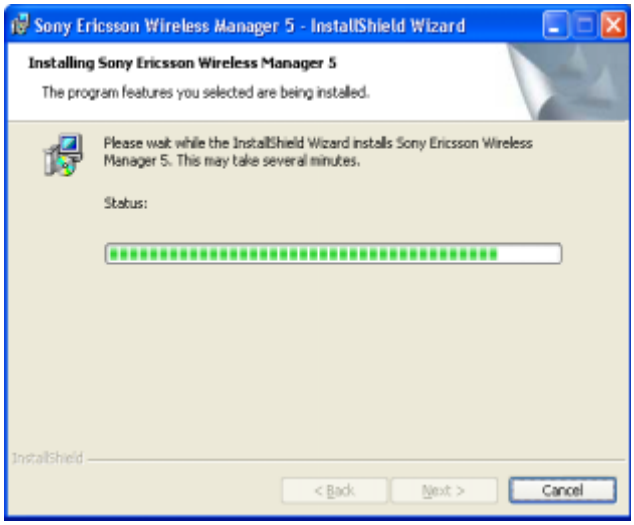
4. To change the default location where the Wireless Manager files are saved, click **Change** and navigate to the directory that you want to use for the installation. After you have selected the folder, click **OK**.
5. Click **Next**.

The Confirm Installation window is displayed.



6. Click **Install**.

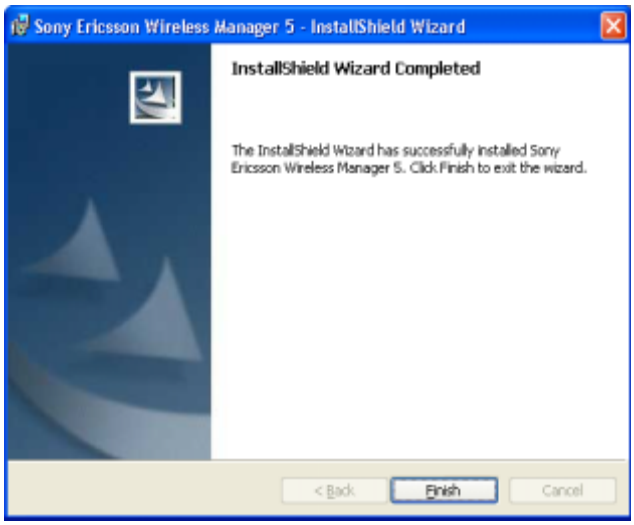
   The Setup Status window is displayed and a progress bar indicates the progress of the installation.



Important!
The installation process might pause for several minutes at one or more stages. During this time the drivers are copied to your hard drive. Do not cancel.

Wireless Manager is installed in the same language as your Windows installation, or English if your Windows language is not available.

7. The installation is complete.



8. Click **Finish**.

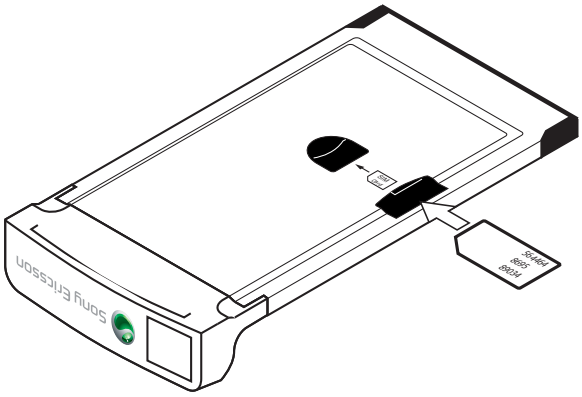
Preparing your PC Card

Before you can connect to a mobile network, your SIM card must be inserted into your Sony Ericsson PC Card. Additionally, your SIM card must include a subscription that provides access to data services.

To install your SIM card into your Sony Ericsson PC Card

1. Remove your Sony Ericsson PC Card from its protective case.
2. Insert your SIM card into the slot on the back of the PC Card, with the gold contacts facing downwards.

   Note:
   The angled corner of the SIM card must be placed into the PC Card as demonstrated below. The gold contacts of the SIM card should face downwards.



When your Sony Ericsson PC Card is not in use it is recommended that you store it in the protective carrier box provided.

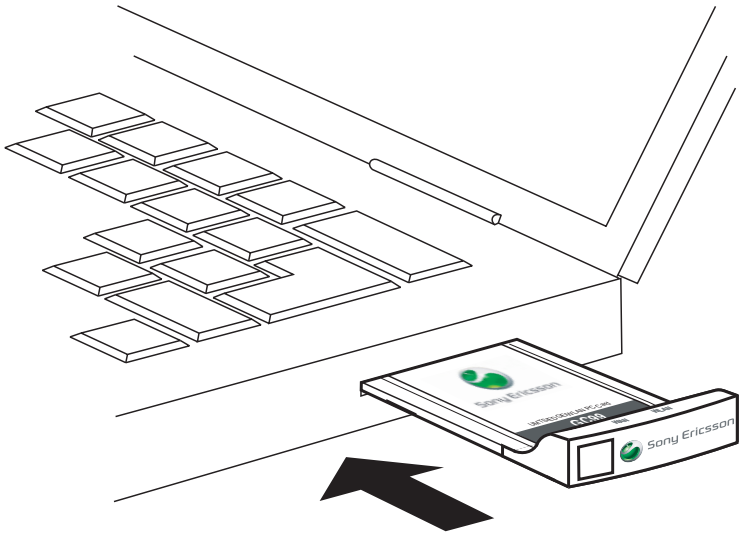
Important!
Do not insert the card into the laptop until you have installed the software from the CD-ROM. If you accidentally insert the PC Card before you install the software, simply cancel the **New Hardware** wizard.

Inserting your PC Card

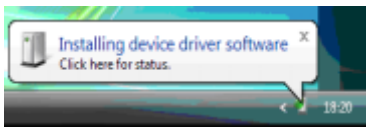
Before you insert your PC Card, install the Wireless Manager software.

To insert your PC Card for the first time

1. Turn on your PC and start Windows.
2. Insert your Sony Ericsson PC Card. Make sure it is fully inserted.



3. After a few seconds, the New Hardware Wizard opens and device driver software is installed. Several Found New Hardware pop-up messages are displayed indicating that device driver software installation is taking place Windows Vista will list the drivers if you click for status.



This process is normally fully automatic. If you are asked to browse to the location of the drivers, go to D:\Driver where D is the letter of your CD drive.

4. After Windows finishes installing device drivers, a final message displays in the notification area indicating that your new hardware is installed and ready to use.

   Select **Start** ➔ **All Programs** ➔ **Sony Ericsson** ➔ **Wireless Manager 5** ➔ **Wireless Manager 5** to start using your Sony Ericsson PC Card.

   Or

   From the Windows desktop, double-click the **Wireless Manager 5** shortcut .

Removing your PC Card

As a best practice, it's recommended that you stop your Sony Ericsson PC Card from transmitting before you attempt to remove it. This ensures that your Sony Ericsson PC Card is safely removed. Unplug any external antenna before you transport or store your laptop in a carrying case.

Important!
Leaving an external antenna attached during transport could damage your PC Card.

To remove your Sony Ericsson PC Card

1. Click **Disconnect** to end any active connection.
2. Click **Radio** ➔ **Exit** to exit Wireless Manager.
3. If asked, confirm that you are sure you want to exit Wireless Manager.
4. On the Windows desktop, go to the Notification Area by the clock and click on the **Unplug or Eject Hardware** icon (Windows 2000) or **Safely Remove Hardware** icon (Windows XP) (Windows Vista) in the notification area. All the currently connected devices are listed.
5. From the list of devices, select your Sony Ericsson PC Card. A message box is displayed indicating that it is safe to remove the card.

   Important!
   Incorrect removal of your Sony Ericsson PC Card can damage the card.

Uninstalling your software

Before you uninstall the software, remove your PC Card from your PC.

Windows 2000 and Windows XP

1. From the Windows desktop, select **Start** ➔ **Control Panel** ➔ **Add or Remove Programs**. (Windows XP) or **Start** ➔ **Settings** ➔ **Control Panel** ➔ **Add or Remove Programs** (Windows 2000).
2. From the Currently installed programs list, select **Sony Ericsson Wireless Manager 5**, and click **Remove**. Follow the on-screen instructions.
3. Select **Sony Ericsson PC300 Wireless Modem** and click **Change/Remove**. Follow the on-screen instructions.
4. (Optional) Incoming Call list, SMS messages and Phonebook entries and Settings that are saved on your hard drive. These are not normally deleted so that an update or reinstall can pick up the existing data. To delete this data, complete the following steps:
   a. Navigate to the following directory:
      `C:\Documents and Settings\<username>\Application Data\Sony Ericsson\Wireless Manager`
      where `<username>` is the user name of the Windows account that was used to install Wireless Manager.
   b. Delete the files in this directory.

   Note:
   The Application Data folder may be hidden by Windows.

Windows Vista

To remove the Wireless Manager software from your PC, complete the following steps:

1. Select **Start** ➡ **Control Panel**. In Default View select **Uninstall a program**, in Classic View select **Programs and Features**.
2. Select **Sony Ericsson Wireless Manager 5** and click **Uninstall**. Follow the uninstall instructions.
3. Select **Sony Ericsson PC300 Wireless Modem** and click **Uninstall/Change**. Follow the uninstall instructions.
4. (Optional) Incoming Call list, SMS messages and Phonebook entries and Settings that are saved on your hard drive. These are not normally deleted so that an update or reinstall can pick up the existing data. To delete this data, complete the following steps:
   a. Navigate to the following directory:
      `C:\Users\<username>\Roaming\AppData\Sony Ericsson\Wireless Manager`
      where `<username>` is the user name of the Windows account that was used to install Wireless Manager.
   b. Delete the files in this directory.

Note:
The AppData folder may be hidden by Windows.

Using Wireless Manager

This chapter tells you how to configure and make connections using Wireless Manager. In most cases, configuration will be automatic.

Starting Wireless Manager

To start Wireless Manager

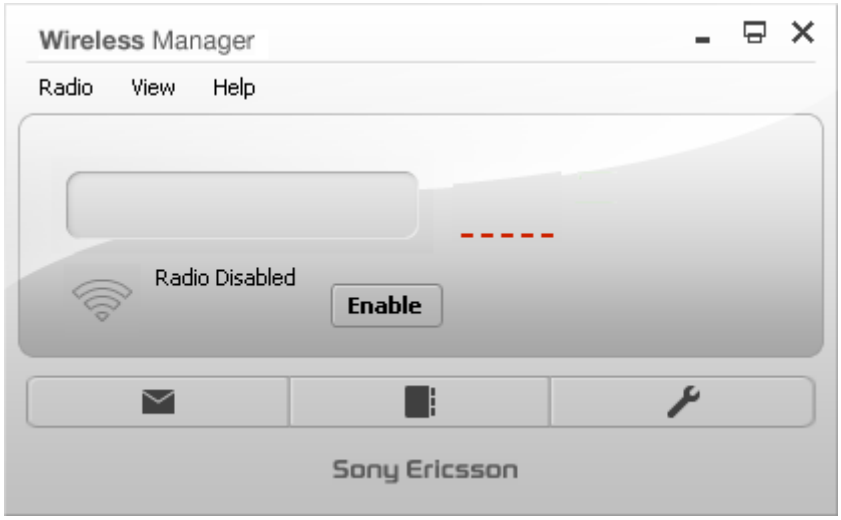
1. From the Windows desktop, select **Start** ➡ **All Programs** ➡ **Sony Ericsson** ➡ **Wireless Manager 5** ➡ **Wireless Manager 5.**

   Or

   From the Windows desktop, double-click the **Wireless Manager 5** shortcut .

2. If requested, enter your SIM card PIN and then click **OK**.

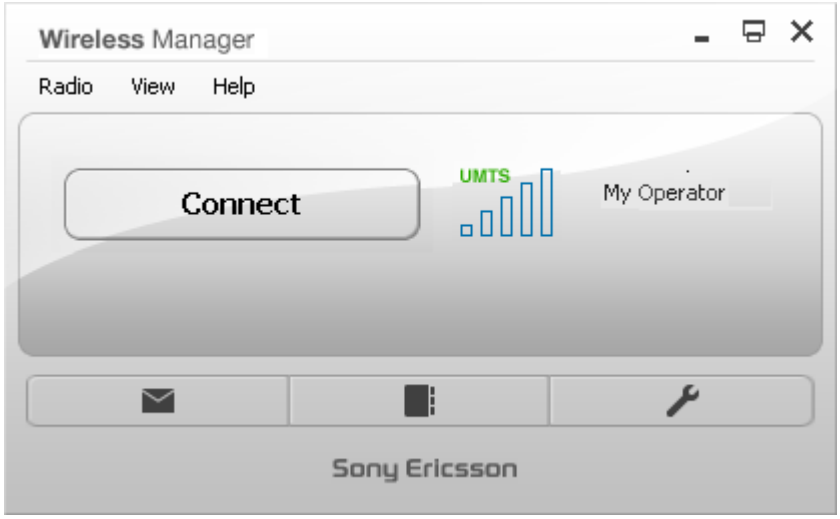
   You are allowed three attempts to enter the correct PIN. If you fail to enter the SIM card PIN correctly, you are blocked from accessing the SIM card. Contact your network operator for your Personal Unblocking Key (PUK). Enter the unblock key into the Card Blocked field and then enter a new PIN code and confirm it. To set the SIM card PIN, see *Locks* on page 28.



   Note:
   If you exit and re-start Wireless Manager without removing the PC Card, the PIN number will be remembered and Wireless Manager will not ask for it again.

3. If the radio is disabled, click **Enable** to turn it on. Alternatively, select **Radio** ➡ **Enable Radio**.

4. Wireless Manager will search for service and after a short delay display the mobile operator name and signal strength.



To close Wireless Manager

1. Click the **close** button ☒ in the upper-right corner of the Wireless Manager window.

   Or

   Select **Radio** ➡ **Exit**.

2. If a confirmation window is displayed, click **Yes**.

   Note:
   When you close Wireless Manager any existing connection is terminated.

3. To remove your PC Card, follow the instructions for *Removing your PC Card* on page 8.

Using your connection

To make a connection

1. Start Wireless Manager.

   Note:
   If a **No Connection Profile** message is displayed, you must first define one. See *Manual Configuration of a Connection Profile* on page 13.

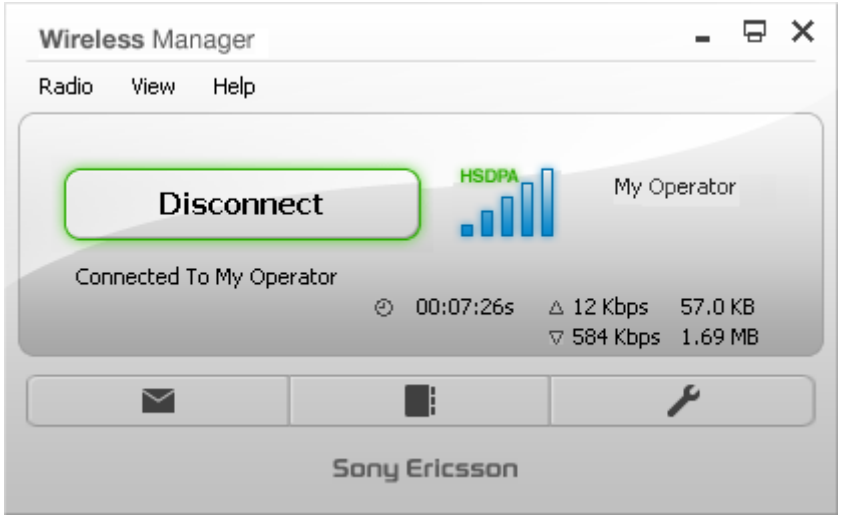
2. Click **Connect**.

   Or

   Right-click on the **Wireless Manager** icon in the notification area and select **Connect**. See *Accessing the Wireless Manager menu* on page 21.

   Note:
   You can tell Wireless Manager to automatically connect when it is started. See *Connect when Wireless Manager is started* on page 26.

Once connected, Wireless Manager starts a timer showing the duration of the connection. The current upload and download speed is indicated together with total volume of data uploaded and downloaded during the connection.



To disconnect a connection

1. Click the **Disconnect** button in the Wireless Manager window.

   Or

   Right-click on the **Wireless Manager** icon in the notification area and select **Disconnect**. See *Accessing the Wireless Manager menu* on page 21.

About Connection Profiles

A Connection Profile contains the information necessary for your PC Card to be able to connect to the Internet or to a corporate network which has a private APN. A profile is the same for all services HSDPA, UMTS, EDGE and GPRS - your PC Card will automatically select the fastest service available.

Automatic configuration

The first time you start Wireless Manager, it will in most cases automatically create a connection profile based on your network operator details from your SIM Card.

Wireless Manager has a database of connection profiles for many operators. It will search for the correct connection profile for your operator and automatically select it if found. These profiles make an Internet connection and in most cases are also suitable for use with VPN software.

If Wireless Manager cannot create a connection profile, **No Connection Profile** is displayed. Refer to *Manual Configuration of a Connection Profile* on page 13.

If you later insert a different network operator's SIM card in to your PC Card and start Wireless Manager, then a new connection profile will be created for the new network operator. The old connection profile is saved and the new one becomes active.

Automatic configuration is active by default, and can be switched on or off using the **Let Wireless Manager choose the Connection Profile** checkbox in **View** ➡ **Settings** ➡ **Profiles**.

Note:
Some PC Cards are locked, therefore, they may only be used with a SIM Card supplied by the mobile network provider from which the PC Card was purchased.

Pre-Configuration by your IT Manager

Wireless Manager can be pre-configured by your IT Manager so that you can connect to your corporate network. A Connection Profile with the necessary settings is automatically created.

You may need additional VPN (Virtual Private Networking) software to connect to a corporate network. Wireless Manager can also be configured to automatically start your VPN software - see *Launch Buttons* on page 32.

Note:
Sony Ericsson does not provide VPN software with your PC Card.

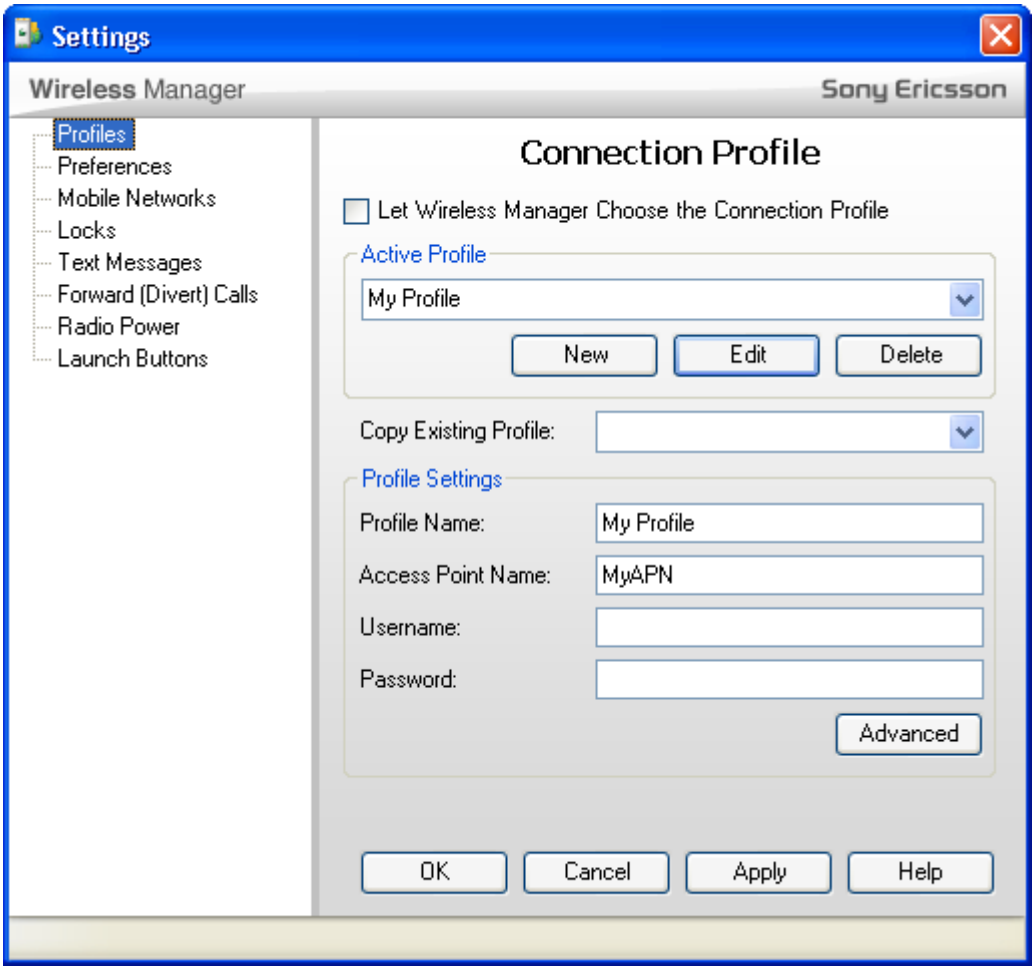
Manual Configuration of a Connection Profile

To create a Connection Profile

1. Obtain the APN, user name, and password from your network operator or network administrator. For a full list of connection parameters, see *Appendix A - Connection Parameters* on page 50.
2. From the Wireless Manager window, select **View** ➡ **Settings**.

   Or

   Click the **Settings** button . The Settings Window opens.
3. Click **Profiles.**
4. Un-check the **Let Wireless Manager choose the Connection Profile** checkbox then click the **New button**.



5. Wireless Manager has a list of settings for many mobile networks. Click the **Copy Existing Profile** drop-down list and select your network. The profile settings will be displayed in the **Profile Settings** box below.
6. Enter a **Profile Name** of your choice. For example, 'My Connection'.
7. Enter the **Access Point Name** (APN).
8. Enter the **Username** and **Password** if required. These are often left blank.
9. Click **Advanced** if extra settings such as DNS Server addresses are required. Enter the information and click **OK**.
10. Click **Apply**. Your new Connection Profile is defined and selected.
11. Click **OK** to close the Settings Window.

For more information on managing Connection Profiles see *About Connection Profiles* on page 12.

Using an Internet Connection

Most individual users will use the default Internet connection provided by the mobile operator. This is very similar to a home ADSL connection, ISP (Internet Service Provider) dial-up connection or a Wireless LAN hotspot in a hotel.

You may find it most convenient to use an e-mail account provided by your mobile operator.

To browse the Web

1. Start Wireless Manager.
2. Click **Connect**.

   Note:
   Computers that are configured to connect to a corporate local area network typically connect to the Internet through a proxy server. Depending on your configuration, you might have to bypass the proxy server to browse the Internet via an Internet connection. To bypass your proxy server, from the Windows desktop, select **Start** ➡ **Control Panel** ➡ **Internet Options.** From the **Connections** tab, click **LAN settings.** In the **Proxy Server** panel, clear the **Use a proxy server for your LAN** checkbox. Make sure to change the proxy server settings back when you want to reconnect to your corporate LAN**.**

3. Start your Internet browser. You are online and can browse the Internet.

To access E-Mail

1. Start Wireless Manager.
2. Click **Connect**.
3. Open your e-mail application, such as Outlook® Express and send/receive e-mail.

   Note:
   To access your e-mail over a mobile network, you may need to modify your e-mail settings. If your e-mail account is not provided by your mobile operator, it is often necessary to change the SMTP Server settings before it is possible to send e-mail. If necessary, check with your e-mail provider and mobile operator for instructions.

Connecting to a Corporate Network

Mobile access to a corporate network requires special configuration so that data is kept secure. VPN software is used to encrypt the data so that it can be safely sent over an Internet connection. Some corporations also have a dedicated APN so that data can pass directly from the mobile operator to the corporate servers.

To browse the Web using a connection to your corporate network

1. Start Wireless Manager.
2. Click **Connect**.
3. Start your VPN software manually if you have not configured Wireless Manager to automatically start it. See *Launch Buttons* on page 32.
4. Start your Internet browser. You are online and can browse the Internet.

Note:
Computers that are configured to connect to a corporate local area network typically connect to the Internet through a proxy server. Contact your network administrator for further information.

To access Corporate E-Mail

1. Start Wireless Manager.
2. Click **Connect**.
3. Start your VPN software manually if you have not configured Wireless Manager to automatically start it. See *Launch Buttons* on page 32.
4. Start your e-mail application, such as Microsoft Outlook®.

Note:
Your corporate network administrator can give you more detailed information about using e-mail out of the office.

You also can create a connection by using Windows Dial-up Networking. For information about GPRS over DUN, see *Creating a GPRS/EDGE/UMTS/HSDPA connection by using Windows dial-up networking (DUN)* on page 51.

Wireless Manager – Status Window

When you start Wireless Manager, the Status window is displayed. This window provides the most important status information and allows you to connect and disconnect.

Features and Navigation

This section shows the Wireless Manager Status Window features and how to navigate to the other features of Wireless Manager. This window has a normal and a small mode.

Window Control Buttons

- Minimise window to Task Bar (or hide if preference **Hide to notification area when minimised** is selected)
- Switch between normal and small status window modes, as shown above
- Exit Wireless Manager

Menu bar

The Menu bar provides access to all the supported functions in Wireless Manager.

Toolbar

Between three and six buttons are displayed on the Toolbar in the standard Status Window, depending on your settings and your SIM card.

Two Toolbar buttons are available in the Small Status Window.

Button	Description
Text Messages	Opens the Text Messages window. Use the Text Messages window to view and manage your SMS messages. For more information about the SMS Messages window, see *Wireless Manager – Text Messages Window* on page 39.
Phonebook	Opens the Phonebook window. Use the Phonebook view to read and update Phonebook entries that are saved to your SIM card and your hard drive. For more information about the Phonebook view, see *Wireless Manager – Phonebook Window* on page 34.
Settings	Opens the Settings window. Use the Settings window to display and configure settings such as connection profiles, mobile network and SIM Lock code. For more information about the Settings window, see *Wireless Manager – Settings Window* on page 23.
Launch Buttons (optional)	Launch buttons start applications for you, for example e-mail, web or VPN software. You can define up to three Launch Buttons in the Settings Window. For more information, see *Launch Buttons* on page 32.

Connect/Disconnect Button

To make a connection

1. Start Wireless Manager - See *To start Wireless Manager* on page 10.

   Note:
   If a **No Connection Profile** message is displayed, you must first define one. See *About Connection Profiles* on page 12.

2. Click **Connect**. Once connected, Wireless Manager starts a timer showing the duration of the connection and displays the volume of data downloaded and uploaded.

   Note:
   You can instruct Wireless Manager to automatically connect when it is started - see *Connect when Wireless Manager is started* on page 26.

To disconnect a connection

1. Click the **Disconnect** button in the Wireless Manager window.

Information Displayed in the Status Window

Status Information

The following information is displayed in the Wireless Manager Main Window:

- Network operator name or icon
- Signal strength
- Type of service available (GPRS, EDGE, UMTS, HSDPA)
- Unread SMS message indicator (or SIM card full indication)
- Voicemail Waiting indicator (if used by your mobile network)
- Connection status messages

When a connection is established, the connection statistics (duration, bytes transmitted, bytes received) are displayed and updated at regular intervals.

Signal Strength and Service Type Information

The appearance of the **signal strength indicator** icon that is displayed in the Status view indicates the status of the GPRS/EDGE/UMTS/HSDPA radio.

Signal strength is indicated on a scale of five bars, from zero to five. The bars also show if a connection is in progress:

Signal meter when idle (not connected):

Signal meter when connected:

The following table lists the different states of the **signal strength indicator** icon and describes each one.

Status Window	Small Mode	Description
		Radio is enabled but there is no service or radio is disabled.
GPRS	G	GPRS Service and signal strength.
EDGE	E	EDGE service and signal strength.
UMTS	U	UMTS service and signal strength.
HSDPA	H	HSDPA service and signal strength. **Note:** It may not be possible to detect HSDPA until a connection is made.

Displaying usage summary information

To display usage summary information

From the Wireless Manager menu bar, select **View** ➡ **Usage Summary**. A dialog box displays the total connection time, data received and data sent.

To clear the usage summary information

1. From the Wireless Manager menu bar, select **View** ➡ **Usage Summary**. The Usage Summary dialog box is displayed.
2. Select the row that contains the information that you want to clear.
3. Click the **Reset** button to clear the counter. You may want to clear the counters to correspond with your billing intervals.

   Note:
   Information in this dialog box is indicative and may not correspond to the accurate billing information maintained by your network operator.

Displaying incoming calls

Wireless Manager maintains a list of any incoming calls that are received. You can also be informed of any incoming calls as they arrive - see *Enable incoming call notification* on page 25

To display the incoming calls list

From the Wireless Manager menu bar, select **View** ➡ **Incoming Call List**. The Incoming Call List dialog box is displayed.

To clear the incoming call information

1. From the Wireless Manager menu bar, select **View** ➡ **Incoming Call List**. The Incoming Call List dialog box is displayed.
2. Click the **Reset** button to clear the incoming call list.

Displaying Wireless Manager Information

To display Wireless Manager information

From the Wireless Manager menu bar, select **View** ➡ **Information**. The Information dialog box is displayed. The information displayed here is useful if you have to report a problem to your network operator or IT department.

Wireless Manager status icon

The Wireless Manager status icon is displayed in the Windows notification area near the clock. It allows you to view the current status of your Sony Ericsson PC Card radio and connection.

Double-click this icon to go to the Wireless Manager status window.

Right-click this icon to access the Wireless Manager menu. See *Accessing the Wireless Manager menu* on page 21 for details.

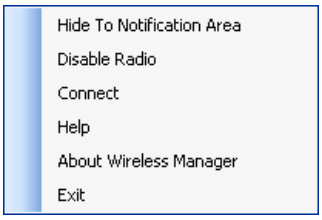
Wireless Manager Icon States

The appearance of the Wireless Manager icon changes to indicate different conditions:

Icon	Description
	Wireless Manager is waiting for your Sony Ericsson PC Card to be inserted.
	There is no SIM card. Please insert the SIM card.
	Wireless Manager is waiting for you to enter your SIM PIN code.
	Wireless Manager is disabling the radio (turning it off).
	Radio is disabled.
	Wireless Manager is enabling the radio (turning it on).
	Searching for a mobile network.
	Radio is enabled but there is no mobile network service available.
G	GPRS service.
E	EDGE service.
U	UMTS service.
H	HSDPA service.
!	Registration denied. Unable to register to a mobile network.
?	No Connection Profile. See *To create a Connection Profile* on page 13.
	Wireless Manager is communicating with the PC Card.
	Wireless Manager is initializing the PC Card.

Accessing the Wireless Manager menu

Right-click on the Wireless Manager status icon in the Windows notification area to access the **Wireless Manager** menu options:



Some of these menu options may be disabled depending on the current state of your Sony Ericsson PC Card.

Hide to Notification Area

When you select **Hide to Notification Area**, the Wireless Manager application continues to run, however, the Wireless Manager status window is not displayed. The Wireless Manager status icon remains in the notification area when the application is hidden. Once hidden, this menu option changes to **Bring To Front.**

Bring To Front

This menu option opens the Wireless Manager status window. You also can double-click the Wireless Manager status icon to perform this function.

Enable/Disable Radio

This menu option is dynamic. It monitors the current state of the radio transmitter and gives you the option to change it to the opposite state. For example, if your radio transmitter is on, the menu option reads **Disable Radio**.

You also can set the status of the radio transmitter by selecting **Enable/Disable Radio** from the **Radio** menu in Wireless Manager.

Connect/Disconnect

If you are currently disconnected, the menu gives you the option to connect. If you are connected, the menu gives you the option to disconnect.

Help

Opens the Wireless Manager online help. You also can launch the online help from the **Help** menu in Wireless Manager. Press **F1** in any of the **Wireless Manager** windows to open the relevant help window.

About Wireless Manager

Displays a dialog box that contains information about the version of Wireless Manager that is installed on your computer.

Exit

Exits the **Wireless Manager** application completely. See *Removing your PC Card* on page 8 for the procedure to remove your PC300 from your laptop.

Windows status icons (Windows 2000 and Windows XP)

In addition to the Wireless Manager Status Icon, the following standard Windows operating system icons also appear in the notification area when your Sony Ericsson PC Card is inserted in your PC and in use.

Status icon	Description
	Unplug or Eject Hardware icon (Windows 2000). Safely Remove Hardware icon (Windows XP). Click on this icon to see a list of hardware connected to your PC. Click on your PC Card in the list to stop it. See *Removing your PC Card* on page 8 for details.
	Disconnected Windows Local Area Network Connection. Wireless Manager uses the Sony Ericsson Mobile Broadband Network Adaptor to make connections. When disconnected, the adaptor will be represented by this icon. When you connect in Wireless Manager, this icon either disappears or is replaced by the Active Windows Local Area Connection Icon.
	Active Windows Local Area Network Connection. Your Sony Ericsson Mobile Broadband Network Adaptor will display this icon during a connection if **Show icon in notification area when connected** is selected. Position your mouse pointer over the icon or double-click it to display information about the connection.

To display the Windows network connection icon in the notification area

1. From the Windows desktop, select **Start** ➡ **Control Panel** ➡ **Network Connections. The Network Connections window displays the network connections configurations that have been set up on your PC.**
2. Find the Local Area Connection which has device name Sony Ericsson Mobile Broadband Network Adapter. Right-click on it and select **Properties**.
3. On the General tab, select the **Show icon in notification area when connected** checkbox.
4. Click **OK** to close the dialog box. When your Wireless Manager connection is active, the Windows connection icon is displayed in the notification area.

   Note:
   Your PC may have several network adaptors. For example, the Wireless LAN and cabled Ethernet. These can also display Windows Local Area Connection icons.

Windows status icons (Windows Vista)

The design and operation of the network connection icon is simplified when using Windows Vista.

Status icon	Description
	Safely Remove Hardware icon. Click on this icon to see a list of hardware connected to your PC. Click on your PC Card in the list to stop it. See *Removing your PC Card* on page 8 for details.
	Disconnected Windows Local Area Network Connection. Wireless Manager uses the Sony Ericsson Mobile Broadband Network Adaptor to make connections. When disconnected, the adaptor will be represented by this icon.
	Active Windows Local Area Network Connection.

Wireless Manager – Settings Window

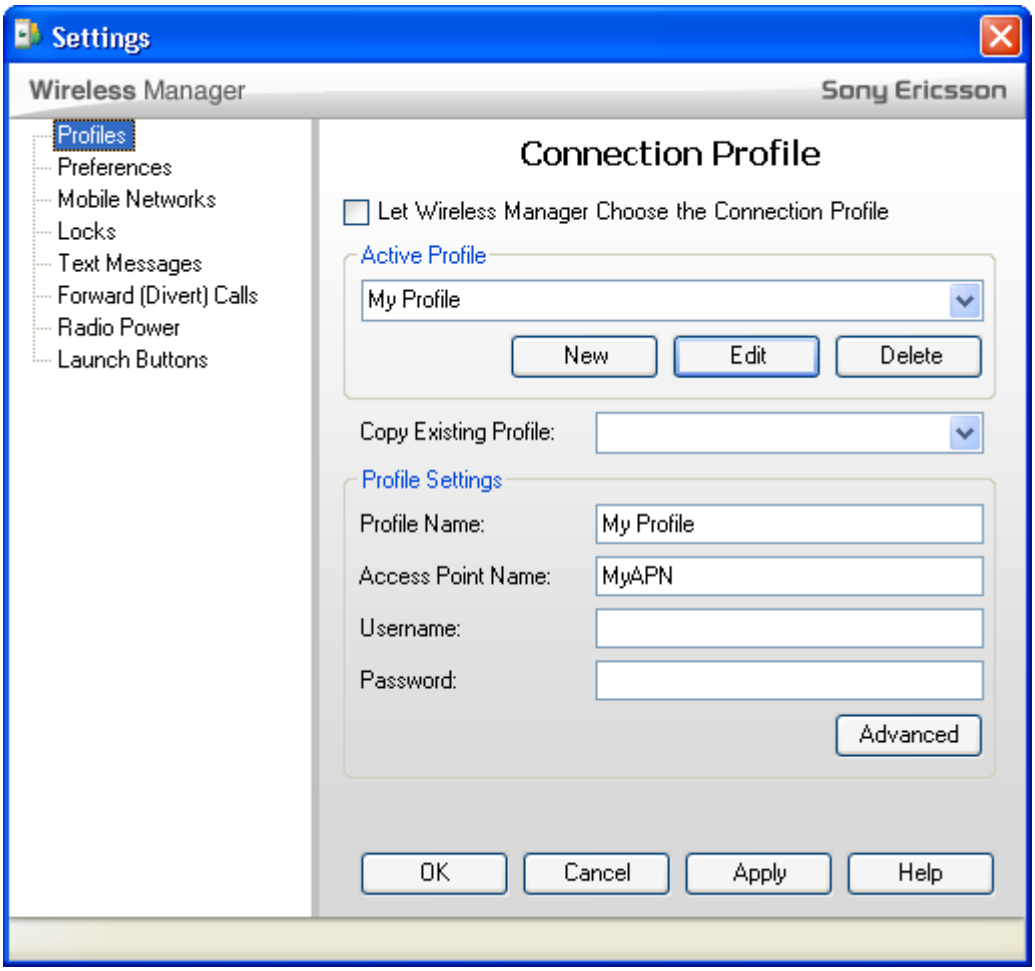
The Settings window allows you to view and change the settings and preferences for your Sony Ericsson PC Card. These are similar to the settings of a mobile phone.

To view and change the settings for your *Sony Ericsson PC Card*

1. Start Wireless Manager.
2. Click the **Settings** button .

   Or

   Select **View** ➡ **Settings. The Settings window opens**.



The Settings window is divided into two panels: the navigation panel on the left and the information panel on the right. When you select a setting in the navigation panel, the corresponding information is displayed in the right panel.

Click **OK** to save settings and close the window. Click **Apply** to save settings and keep the window open. Click **Cancel** to close the Settings window. Applied settings will be retained; if a setting is not completed when Cancel is clicked, it will be lost.

Profiles

Connection Profiles contain the information needed to make a connection over GPRS/EDGE/UMTS/HSDPA. See *About Connection Profiles* on page 12 to learn more.

To create a Connection Profile

1. Obtain the APN, user name, and password and any further advanced settings such as DNS server addresses from your network operator or network administrator. See *Appendix A - Connection Parameters* on page 50 for more information.
2. From the Wireless Manager window, select **View** ➡ **Settings**.
3. Select **Profiles**.
4. Un-check the **Let Wireless Manager choose the Connection Profile** check box then click the **New** button.
5. Wireless Manager has a list of settings for many mobile networks. To select one of these, click on the **Copy Existing Profile** drop-down list and select your network. The profile settings will be displayed in the **Profile Settings** box below.
6. Enter a **Profile Name** of your choice. For example, 'My Profile'.
7. Enter the **Access Point Name** (APN).
8. Enter the **Username** and **Password** if required. These are often not required and can be left blank.
9. If you need to enter advanced settings such as DNS server addresses, click **Advanced**, enter the required information and click **OK**.
10. Click **Apply**. Your new Connection Profile is defined and selected.
11. Click **OK** to close the Settings Window.

To modify a Connection Profile

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Profiles**.
3. Un-check the **Let Wireless Manager choose the Connection Profile** check box.
4. From the **Active Profile** drop-down list, select the profile you want to edit.
5. Click **Edit**. Change the settings as required.
6. Click **Apply**. This profile is set for use. If you wish to use a different profile, select it from the **Active Profile** drop-down list.
7. Click **OK** to close the **Settings Window**.

Note:
If you change the Profile Name, a copy of the selected profile will be created with the new name.

To Select a Connection Profile

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Profiles**.
3. Un-check the **Let Wireless Manager choose the Connection Profile** check box.
4. From the **Active Profile** drop-down list, select the profile you want to use.
5. Click **OK** to close the **Settings Window**.

To delete a Connection Profile

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Profiles**.
3. Un-check the **Let Wireless Manager choose the Connection Profile** check box.
4. From the **Active Profile** drop-down list, select the profile you want to delete.
5. Click **Delete**.
6. Confirm the deletion by selecting **Yes**.
7. In the **Active Profile** drop-down list, check or select the connection profile you now wish to use.
8. Click **OK** to close the **Settings Window**.

Preferences

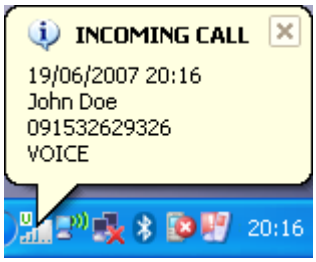
Preferences allow you to change the general behaviour of the Wireless Manager application.

To change preferences

1. From the Wireless Manager window, select **View** ➡ **Settings**. The Settings Window opens.
2. Select **Preferences**.
3. Check and/or un-check the preferences as required.
4. Click **Apply**.
5. Click **OK**.

Enable incoming call notification

When an incoming call is received, the following pop-up message is displayed:



Select this check box to activate incoming call notification.

Ask before exiting Wireless Manager

Select this check box if you want a confirmation message to appear before Wireless Manager exits. Enabling this option helps to prevent accidental closure of Wireless Manager and loss of connection.

Hide to Notification Area when minimised

Select this check box to remove the Wireless Manager application from the Windows Taskbar when Wireless Manager is minimised using the button. The Wireless Manager icon is still displayed in the Windows notification area.

Connect when Wireless Manager is started

Select this check box to automatically connect when Wireless Manager is started. Wireless Manager establishes the connection after successfully registering to the mobile network.

Note:
To establish the connection automatically after you log in to Windows, select the following preferences:

- **Connect When Wireless Manager is started**
- **Start Wireless Manager when Windows starts up**

You must additionally go to **View** ➡ **Settings** ➡ **Radio Power** and set **When Wireless Manager starts up** to **Turn Radio On**.

Start Wireless Manager when Windows starts up

Select this check box to start Wireless Manager when Windows is started.

If a connection is required prior to Windows login, see *Logging on to Windows using a Dial-up connection* on page 54 for more details.

Mobile Networks

From the Mobile Networks panel, you can see the networks that are present in your location. You also can select which of those networks you want to use.

To view available networks

1. From the Wireless Manager window, select **View** ➡ **Settings**. The Settings Window opens.
2. Select **Mobile Networks**.
3. Clear the **Automatically choose a network** check box.
4. Select **Retrieve**.
5. After about a minute, the networks that are currently available are displayed in the **Select a Network** list box.

   The available networks will fall into one of the following three categories:

   - The **Current** network.
   - **Available** networks. These are networks that your home network operator has a roaming agreement with.

- **Forbidden** networks. These are networks that you cannot use. Normally, you will not be able to access these networks. You may try to select a forbidden network. If your home network has reached an agreement that allows you to use the forbidden network, you will be able to access it.

6. Click **Cancel** to exit Settings without making any changes.

To select another network

1. From the Wireless Manager window, select **View** ➡ **Settings**. The Settings Window opens.
2. Select **Mobile Networks**.
3. Clear the **Automatically choose a network** check box.
4. Select **Retrieve**.
5. After about a minute, the networks that are currently available are displayed in the **Select a Network** list box.
6. In the **Select a Network** list box, select the network that you want to use.

   Note:
   You can click **Retrieve** to scan again and refresh the list of networks.

7. Click **Set**. Allow up to a minute for the new network to be selected. If you are not allowed to use the network that you have chosen, *Forbidden* is displayed.

   Note:
   GPRS/EDGE and UMTS/HSDPA roaming may be restricted, even on a network that is listed as “Available”. Contact your network operator to determine the appropriate roaming networks to use.

Preferred Networks

A list of preferred networks is typically saved to your SIM card by your network operator. Preferred roaming partners are placed in the list so that you have the greatest range of available services when roaming. When the home network is not available, your Sony Ericsson PC Card will check the available networks against the preferred network list and select the network that is placed highest in the list. Automatic network selection must be enabled.

Note:
You may not be able to view or edit the preferred network list.

To view the preferred networks on your SIM card

1. From the Wireless Manager window, select **View** ➡ **Settings**. The Settings Window opens.
2. Select **Preferred Networks**. The Preferred Networks panel is displayed on the right.
3. If the preferred networks list is empty, click **Retrieve**. The preferred networks that are saved to your SIM card are displayed.

To add a preferred network to your SIM card

1. From the Wireless Manager window, select **View** ➡ **Settings**. The Settings Window opens.
2. Select **Preferred Networks**. The Preferred Networks panel is displayed on the right.
3. If the preferred networks list is empty, click **Retrieve**. The preferred networks that are saved to your SIM card are displayed.

4. Click **Add**. The Add Preferred Networks dialogue box lists all the networks that are saved to your Sony Ericsson PC Card.
5. Select the network that you want to add and click **OK**.
6. Click **Apply** to save the settings to your SIM card.

To delete a preferred network from your SIM card

1. From the Wireless Manager window, select **View** ➡ **Settings**. The Settings Window opens.
2. Select **Preferred Networks**. The Preferred Networks panel is displayed on the right.
3. If the preferred networks list is empty, click **Retrieve**. The preferred networks that are saved to your SIM card are displayed.
4. Select the network that you want to delete.
5. Click **Remove**.
6. Click **Apply** to save the settings to your SIM card.

To re-arrange the order of the preferred networks

1. From the Wireless Manager window, select **View** ➡ **Settings**. The Settings Window opens.
2. Select **Preferred Networks**. The Preferred Networks panel is displayed on the right.
3. If the preferred networks list is empty, click **Retrieve**. The preferred networks that are saved to your SIM card are displayed.
4. Select the network that you want to move.
5. Click the **Move Up** or **Move Down** arrows to rearrange the order.
6. Click **Apply** to save the settings to your SIM card.

Note:
If the list of preferred networks is full, the **Add** button is disabled (grey).

Locks

SIM Lock

Some SIM cards are protected with a Personal Identity Number (PIN) at the time of purchase.

If SIM Lock is activated for your SIM card, you have to enter the PIN when you start Wireless Manager. If you enter your PIN incorrectly three times in succession, the SIM card is blocked and you need a PUK code, from your network operator, to unblock the SIM card.

You can configure the SIM Lock setting to one of the following states:

- On

Select this setting to activate SIM Lock for your SIM card.

- Off

Select this setting to disable SIM Lock for your SIM card.

Note:
You have to use your PIN code to turn SIM Lock on or off.

To turn on SIM Lock for your SIM Card

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Locks**. The SIM Lock panel is displayed on the right.
3. In the SIM lock panel, select **On**. The **Current PIN** field is displayed.
4. Enter your PIN Code. Click **Apply**. SIM Lock is now enabled.

To turn off SIM Lock for your SIM Card

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Locks**. The SIM Lock panel is displayed on the right.
3. In the SIM lock panel, select **Off**. The **Current PIN** field is displayed.
4. Enter your PIN Code. Click **Apply**. SIM Lock is now disabled.

To change the PIN Code for your SIM card

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Locks**. The SIM Lock panel is displayed on the right.
3. If it is off, first turn on SIM Lock.
4. Click **Change PIN**.
5. In the **Current PIN** field, type the existing SIM Lock code.
6. In the **New SIM PIN** field, type four to eight digits that you want to use for the new code.
7. In the **Confirm SIM PIN** field, type the new code again.
8. Click **Apply**. The new SIM PIN code is saved to your SIM card.

Note:
The SIM Lock protects only your subscription and not your Sony Ericsson PC Card from unauthorised use. If you change your SIM card, the Sony Ericsson PC Card will still work with a new SIM card.

Text Messages

Play a sound when a new text message is received

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Text Messages**.
3. Check **Play a sound when a new text messages is received** to hear a notification sound when a new text message is received.
4. Click **Apply**.
5. Click **OK**.

Move Read messages from SIM Inbox to Saved Inbox

Incoming text messages are stored on your SIM card and are listed in the SIM Inbox in the Text Messages window. The SIM Inbox has limited capacity, typically 20 or 30 SMS messages. A Saved Inbox is provided so that text messages can be moved to storage on your PC's hard drive where there is space for a very large number to be stored. By default you must manually move the messages. For more information see *Text Message Folders* on page 40.

The **Move Read messages from SIM Inbox to Saved Inbox** option enables messages to be automatically moved from the SIM Inbox to the Saved Inbox as you read them. This helps keep the SIM Inbox free for new incoming messages.

Note:
As you read messages they will disappear from the SIM Inbox. You will find them in the Saved Inbox.

To enable this option:

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Text Messages**.
3. Check **Move Read messages from SIM Inbox to Saved Inbox**.
4. Click **Apply**.
5. Click **OK**.

Forward (Divert) Calls

Your Sony Ericsson PC Card does not support voice, CSD Data or fax calls. You can use the Forward (Divert) Calls feature to send an incoming voice, fax or data call to an alternative number where it can be answered. For example, you can divert calls to your mobile network voice mail service. These settings are stored in the mobile network, therefore it is necessary to retrieve the information from the network.

Note:
The Call divert service may not be available on all networks.

Your subscription may not be enabled to receive incoming voice, fax or data calls.

To retrieve your current call diversion settings from the network

1. In the Settings window select **Forward (Divert) Calls.** The Forward (Divert) calls panel is displayed on the right.
2. Click **Retrieve**.
3. If Divert is set, **Always** will be checked and the divert number displayed to the right. If no divert is set, the **Always** checkbox will be clear and there may or may not be a number as well.

To enable call forwarding (diversion)

1. In the Settings window select **Forward (Divert) Calls**. The Forward (Divert) calls panel is displayed on the right.
2. Click **Retrieve if you wish to check for existing settings**.
3. Check the **Always** checkbox.
4. Enter the telephone number to which you want to forward calls.
5. Click **Apply** to save the setting.
6. The **Call divert settings applied successfully** message informs you that the new setting has been sent to the mobile network.

To disable call forwarding (diversion)

1. In the Settings window select **Forward (Divert) Calls**. The Forward (Divert) calls panel is displayed on the right.
2. Click **Retrieve if you wish to check for existing settings**.
3. Clear the **Always** checkbox.
4. Click **Apply** to save the setting.
5. The **Call divert settings applied successfully** message informs you that the new setting has been sent to the mobile network.

To change the call forwarding (diversion) number

1. In the Settings window select **Forward (Divert) Calls**. The Forward (Divert) calls panel is displayed on the right.
2. Click **Retrieve if you wish to check for existing settings**.
3. Make sure the **Always** checkbox is checked.
4. Enter the new telephone number to which you want to forward calls.
5. Click **Apply** to save the setting.
6. The **Call divert settings applied successfully** message informs you that the new setting has been sent to the mobile network.

Radio Power

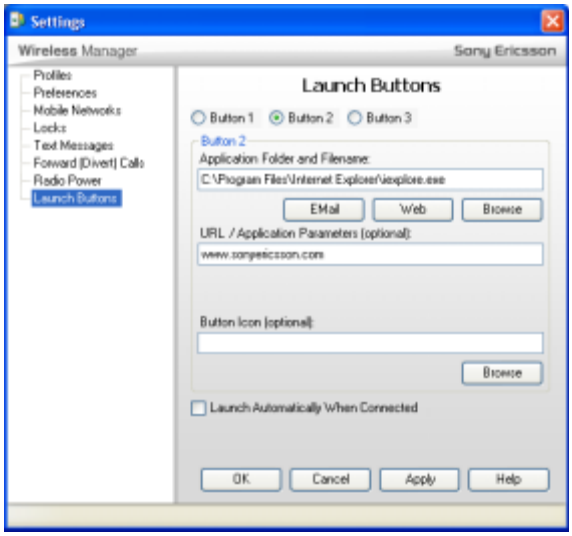
Use this panel to manage the state of the radio transmitter.

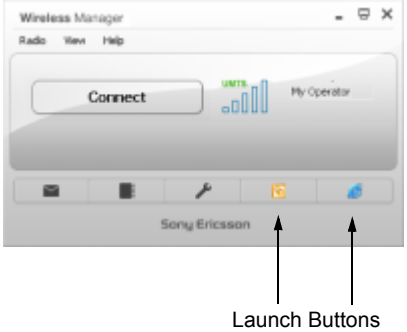
Option	Description
When Wireless Manager starts up: On application start-up and laptop resume where Wireless Manager was running at the time Windows was set to Standby or Hibernate	You can select one of the following options to configure the radio status when Wireless Manager is started or when it resumes from being in stand-by: • **Turn Radio On** Select this option to automatically turn on the radio when Wireless Manager starts or resumes from stand-by. • **Turn Radio Off** Select this option to automatically ensure that the radio is not turned on when Wireless Manager starts or resumes from stand-by. You may perform non-communication related activities such as Phonebook maintenance. You must first turn on the radio using the **Enable** button or menu before you can make a connection or send/receive SMS messages. This option is selected by default when you install Wireless Manager. • **Leave radio As Is** If the radio is off, the **Enable** button is displayed. If the radio is already on (Wireless Manager exited with radio on and **Leave radio As Is** set or **Enable radio all the time** is set), then the radio will be left on when Wireless Manager starts.

When Wireless Manager exits:	You can select one of the following options to configure the radio status when Wireless Manager is closed: • **Turn radio Off** Select this option to turn off the radio when Wireless Manager is closed. • **Leave radio As Is** Select this option to leave the radio in its current state when Wireless Manager closes.
Enable radio all the time	You should normally leave this check box cleared. When enabled, the Windows driver turns the radio transmitter on when the card is inserted and leaves it enabled even when the card is not in use. You should check this option if your Windows logon requires you to log on using a dial-up connection; see *Logging on to Windows using a Dial-up connection* on page 54 for more details. When you click **OK** to activate this option, the following warning message is displayed: You have selected 'Enable radio all the time'. This is normally only required to support windows Log-on using dial-up connection. The radio will always be on, even when Wireless Manager is not running. Are you sure you want to do this? When this option is selected, the Wireless Manager radio power start-up and shutdown options are disabled.

Launch Buttons

Launch buttons are extra buttons that you can add to the Wireless Manager toolbar. Typical uses are to enable your e-mail, web browser or VPN software quick and easy to start. You can add up to three Launch Buttons. You can also set these applications to start automatically when a connection is made.





To add a Launch Button

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Launch Buttons.**
3. Click to select the launch button (1-3) that you want to configure. The bottom panel displays the application folder and filename of the target application and the application parameters (e.g. URL) that are used when you run the application.

4. In the **Application Folder and Filename** field, type the directory path and filename of the application that you want to display on the toolbar. You also can click **Browse** to navigate to the application and select it. The application must be an 'executable' file (.exe).

   Or

   Select **E-Mail** or **Web** to set the button to start your default E-Mail or web browser application.
5. If necessary, in the **URL / Application Parameters** field, type the command line arguments that are used by the application when you run it. For example, www.sonyericsson.com.
6. The button will have the default icon for the application you have selected. To change the icon, type the directory path and filename of the icon that you want to display on the toolbar in to the **Button Icon** field. You also can click **Browse** to navigate to the icon and select it. Icon files are of type .ico.
7. To automatically start the selected application when a connection is made, select the **Launch Automatically When Connected** check box.
8. When finished configuring the launch buttons, click **Apply**. The shortcut to the application that you have configured will display on the toolbar in Wireless Manager.

To Delete a Launch Button

1. From the Wireless Manager window, select **View** ➡ **Settings.** The Settings Window opens.
2. Select **Launch Buttons.**
3. Click to select the launch button (1-3) that you want to delete. Delete the information in the three fields **Application Folder and Filename, URL / Application Parameters** and **Button Icon**.
4. Make sure that the **Launch Automatically When Connected** check-box is cleared.
5. Click **Apply**.

Wireless Manager – Phonebook Window

The Phonebook window enables you to view, edit and add contact names and phone numbers. You can import and export entries from/to a text file. You can also send text messages directly from the Phonebook.

Opening the Phonebook Window

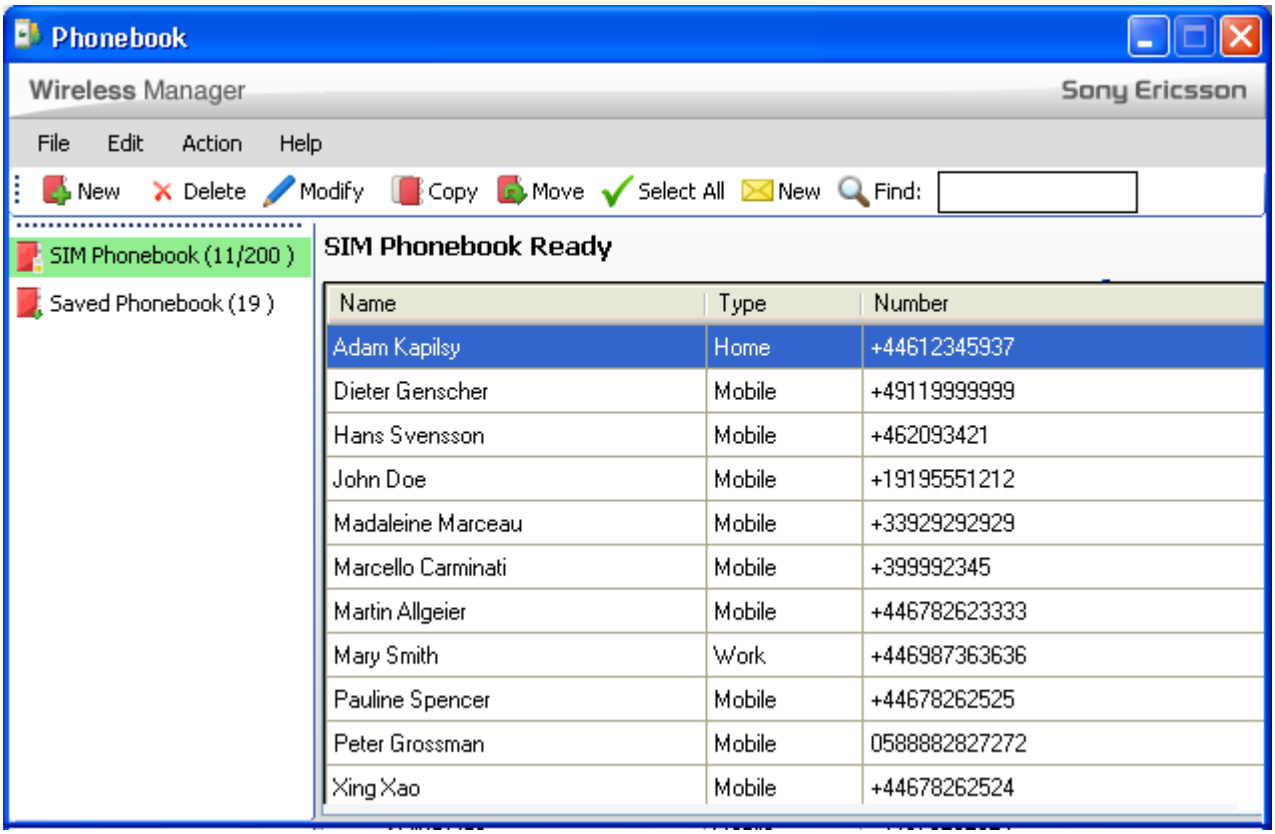
In this window you can manage the Phonebook entries that are saved to your SIM card (SIM Phonebook) and a Saved Phonebook that is maintained on your hard drive.

To open to the Phonebook window

1. Start Wireless Manager.
2. From the Toolbar, click the **Phonebook** button to display the Phonebook view.

   Or

   Select **View** ➡ **Phonebook. The** Phonebook window **is displayed.**



The Phonebook window is divided into two panels: the navigation panel on the left and the information panel on the right. When you select an icon in the navigation panel, the corresponding information is displayed in the right panel.

SIM Phonebooks typically hold approximately 200 entries. The size of the SIM Phonebook and the number of entries used is indicated. In the above example the SIM Phonebook can hold 200 entries, of which 11 are currently occupied.

The Saved Phonebook is on your computer's hard drive. It can therefore hold many entries. The number of entries in the Saved Phonebook is indicated; 19 in the example above.

Managing entries

The Phonebook window allows you to access the Phonebook that is saved to your SIM card and the Phonebook that is saved to your computer.

To select multiple entries

When you work with Phonebook entries, you might need to select more than one entry at a time.

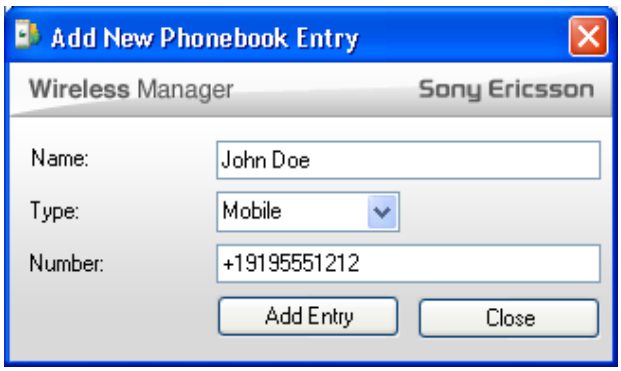
- To select nonadjacent entries, press **Ctrl** and select each entry you want.
- To select a range of entries, select the first entry, press and hold the **Shift** key, and then select the last entry in the range.

To add a phone number to your Phonebook

1. In the Phonebook window, select one of the following icons:
   - **SIM Phonebook** icon to add the phone number to your SIM card.
   - **Saved Phonebook** icon to add the phone number to your Saved Phonebook.
2. From the Toolbar, click the **Add New** button .

   Or

   Select **Edit** ➡ **Add New.** The **Add New Phonebook Entry** dialog box is displayed.



3. In the **Name** field, type the name for the Phonebook entry.
4. In the **Type** field, identify the number as **Home**, **Mobile**, **Work**, or **Other**.
5. In the **Number** field, type the phone number.
6. Click **Add Entry** to save the entry or **Close** to close the dialog box without adding the new entry.

Note:

- Typically, SIM Phonebook numbers are limited to 12-20 digits (including the plus sign +) and names are limited to 12-20 alphanumeric characters.
- New entries are added to the next available SIM index position.

To edit a number in your Phonebook

1. In the Phonebook window, select one of the following icons:
   - Select the **SIM Phonebook** icon to edit a phone number that is saved in the Phonebook on your SIM card.
   - Select the **Saved Phonebook** icon to edit a phone number that is saved in the Phonebook on your computer.
2. In the right panel, double-click on the contact that you want to modify.

   Or

   Click on the contact and select **Modify** .

   Or

   Click on the contact and select **Edit** ➡ **Modify**.
3. Change the information as required and click **Modify Entry**. Select **Close** to close the dialog box without making any changes.

To find a Phonebook entry

1. Enter the name or part of the name you wish to find in to the **Find** field.
2. Select **Find**. The search includes both SIM Phonebook and Saved Phonebook. The first entry that matches your search criteria is highlighted in the right pane.
3. Click **Find Next**.

   Note:
   The currently-selected Phonebook is searched first. The other Phonebook is then searched.

To copy a Phonebook entry

1. In the Phonebook window, select one of the following icons:
   - Select the **SIM Phonebook** icon to copy a phone number from the phonebook on your SIM card.
   - Select the **Saved Phonebook** icon to copy a phone number from the Phonebook on your computer.
2. In the right panel, select the number that you want to copy.
3. Select one of the following options:
   - To copy a phone number to your computer, select **Action** ➡ **Copy to Saved Phonebook**.
   - To copy a phone number to your SIM card, select **Action** ➡ **Copy to SIM Phonebook**.
   - Use the **Copy** button to copy the entry from the currently-selected Phonebook to the other Phonebook.
4. A duplicate entry is created in the specified Phonebook. The new entry is assigned the next available position in the destination Phonebook.

To move a Phonebook entry

1. In the Phonebook window, select one of the following icons:
   - Select the **SIM Phonebook** icon to move a phone number from the Phonebook on your SIM card.
   - Select the **Saved Phonebook** icon to move a phone number from the Phonebook on your computer.
2. In the right panel, select the number that you want to move.

3. Select one of the following options:
   - To move a phone number to your computer, select **Action** ➡ **Move to Saved Phonebook**.
   - To move a phone number to your SIM card, select **Action** ➡ **Move to SIM Phonebook**.
   - Use the **Move** button to move the entry from the currently-selected Phonebook to the other Phonebook.
4. The selected entry is moved from its current Phonebook and placed in the selected one. The new entry is assigned the next available position in the destination Phonebook.

To delete a Phonebook entry

1. In the Phonebook window, select one of the following icons:
   - Select the **SIM Phonebook** icon to delete a phone number from the Phonebook on your SIM card.
   - Select the **Saved Phonebook** icon to delete a phone number from the Phonebook on your computer.
2. In the right panel, select the phone number that you want to delete.
3. From the Toolbar, click the **Delete** button .

   Or

   Select **Edit** ➡ **Delete.**
4. A confirmation dialog box opens. Click **Yes** to delete the number.

   Note:
   If you want to delete all numbers, select **Action** ➡ **Select All**, and then select **Edit** ➡ **Delete**.

To import a Phonebook or a Phonebook entry

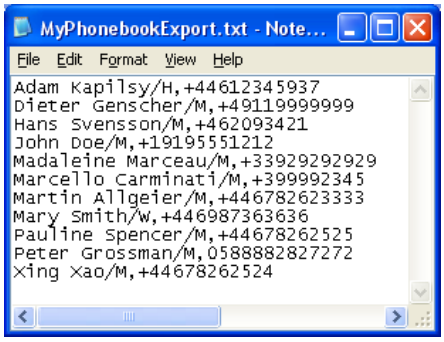
1. In the Phonebook window, select one of the following icons:
   - Select the **SIM Phonebook** icon to import to your SIM card.
   - Select the **Saved Phonebook** icon to import to your computer.
2. Select **File** ➡ **Import** ➡ **Merge with Existing** or **Replace Existing**. Select the file you wish to import and click **OK.**
   - **Replace Existing Phonebook**

     Select this option to replace the entire Phonebook with the contents of the file that you import.
   - **Merge With Existing Phonebook**

     Select this option to keep the existing Phonebook entries and add to it the contents of the file that you import.

   Note:
   The file must be a text file in comma separated value (CSV) format. Any invalid lines or files are ignored. Microsoft® Excel® or a text editor like Notepad can be used to edit this file.

For example:



To export an entry or Phonebook

1. In the Phonebook window, select one of the following icons:
   - Select the **SIM Phonebook** icon to export from your SIM card.
   - Select the **Saved Phonebook** icon to export from your computer.
2. Select **File** ➡ **Export.** Browse to the location where you want to export the file.
3. In the **File name** field, type the name of the file to where you want to save the Phonebook.
4. Click **Save** in the Save As dialog box.

Note:
The exported file will be saved as a text file in comma separated value (CSV) format. Microsoft® Excel or a text editor like Notepad can be used to edit this file.

Tags /H, /M and /W after the name indicate the type of telephone number: Home, Mobile or Work (Business) respectively.

To send an SMS message by using a Phonebook entry

1. In the Phonebook window, select the Phonebook that contains the phone number entry to which you want to send an SMS message.

   Note:
   To send an SMS to multiple numbers, hold down **Ctrl** and select multiple numbers from the Phonebook.

2. **Select Action** ➡ **New SMS Message**.

   Or

   From the standard toolbar, click . The **Message** dialog box is displayed.
3. The **To** field displays the phone number(s) to which the message will be sent.
4. In the **Message** field underneath, type your text message. The number of SMS blocks needed to send the message is displayed together with the number of characters remaining in the current block.

   Note:
   Messages longer than 160 (or in some cases 140 or 70) characters appear to be sent as a single message. The message is actually sent in individual blocks which are then put together again at the receiving end. You are normally charged for the number of blocks sent.

5. Check the **Request Status Report** checkbox if you want to receive a status report when the message is delivered.
6. To send the text message, click **Send**. You can close the dialog box without sending the SMS by clicking .

Wireless Manager – Text Messages Window

The Text Messages window enables you to send, receive and manage text messages.

Note:
To use the text messaging features, an SMS message service plan must be included in your service subscription (contact your network operator for more details).

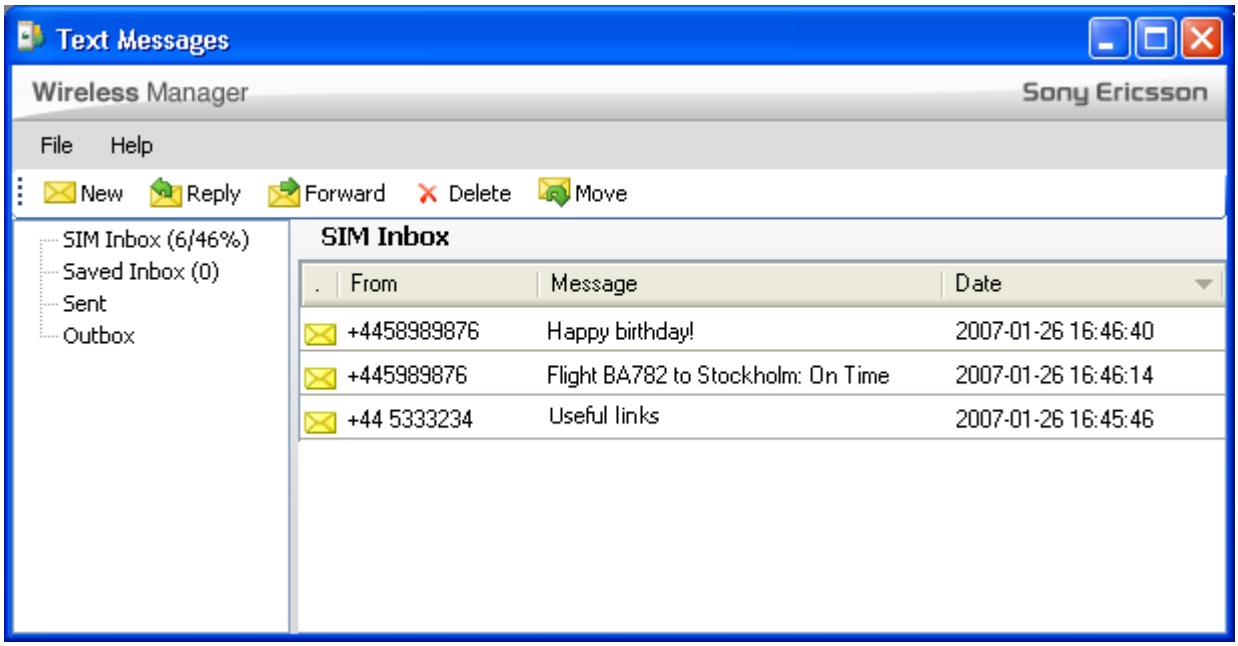
Opening the Text Messages Window

To open the Text Messages Window

1. From Wireless Manager, click the **Text Messages** button .

   Or

   Select **View** ➡ **Messages. The Text Messages** window **is opened.**



The Text Messages window is divided into two panels: the folder panel on the left and the contents panel on the right. When you select a folder in the folder panel, the contents of the folder are displayed in the right panel.

Text Message Folders

The names and locations of the folders that are displayed in the folder panel cannot be changed. The following table lists the folders that are displayed and describes their contents.

Folder	Description
SIM Inbox	Select this folder to display the contents of the SIM Inbox. The SIM Inbox is located on your SIM Card. The number of unread messages is indicated, together with the percentage of the SIM Inbox that is used. In the example screenshot, there are 6 unread messages and 46% of the available space in the SIM Inbox is used. The status column displays one of the following icons for each message to indicate whether the message has been read: • **Read** • **Unread** • **Incomplete.** This is a long message made up of several SMS blocks. One or more of these blocks is missing. This missing text is represented like this: (...) If a new SMS arrives when the Wireless Manager is running, a **new SMS** message icon is displayed on the Wireless Manager Status Window. Additionally, the new message notification sound is played if it is enabled. See *Play a sound when a new text message is received* on page 29 Incoming messages are stored to your SIM Inbox, which typically holds 10 to 30 messages. When the SIM Inbox becomes full, is displayed in the Wireless Manager Status Window. You must delete some text messages or move some to the Saved Inbox. This will free storage space in the SIM Inbox so that you can continue to receive new text messages from the network. You can automatically move read messages to the Saved Inbox. See *Move Read messages from SIM Inbox to Saved Inbox* on page 29.
Saved Inbox	Select The Saved Inbox to display the text messages that you have moved from the SIM Inbox. The number of unread messages is indicated.
Sent	A copy of each SMS message that you send is saved in this folder. Click on the folder icon to display your saved SMS messages.
Outbox	Any messages that you have created but have not sent are displayed when you click on this icon.

Reading text messages

To read a text message

1. From the Text Messages window, select the folder where the SMS message that you want to reply to is located. New text messages will be in the **SIM Inbox**.
2. From the list of messages, select the message to which you want to reply.

   Double-click on the message

   Or

   Select **File** ➡ **Open.**
3. A Message dialog box opens to display the text message. You can also Forward, Reply to or Delete the message.
4. You can close the dialog box by clicking ✕.

Creating and sending text messages

To create and send a text message

1. In the Text Messages window, select **File** ➡ **New.**

   Or

   From the toolbar, click **New**. The **Message** dialog box is displayed.

2. In the **To** field, type the recipient's mobile phone number. You can enter multiple phone numbers separated by a semicolon (;).

   Or

   Click the **To:** button to open the **Select Contact** dialog box. Select a contact, or more than one contact by holding down **Ctrl** as you select. Click **OK.**

   Note:
   You can type a name or the first letter(s) of a name to filter the contacts in the **Select Contact** dialog box.

3. In the **Message** field underneath, type your text message. The number of SMS blocks needed to send the message is displayed together with the number of characters remaining in the current block.

   Note:
   Messages longer than 160 (or in some cases 140 or 70) characters appear to be sent as a single message. The message is actually sent in individual blocks which are then put together again at the receiving end. You are normally charged for the number of blocks sent.

4. Check the **Request Status Report** checkbox if you want to receive a status report when the message is delivered.

5. To send the text message, click **Send**.You can close the dialog box without sending the SMS by clicking ✕.

   Note:
   You must have a mobile network signal to **send** a text message. The **Send** button is disabled (grey) when there is no mobile network coverage.

To edit a text message

When you are working with a text message, you can edit the text by cutting, copying, and pasting it using the keyboard shortcuts and the **Edit** menu. This is especially useful for sending text from other sources, such as web pages for example. Use the following cut, copy, and paste directions to edit your messages:

- To cut text, select the text that you want to cut and press **Ctrl + x**, or select **Edit** ➡ **Cut.**
- To copy text, select the text that you want to copy and press **Ctrl + c**, or select **Edit** ➡ **Copy.**
- To paste text that has been cut or copied, select the location where you want to paste the text, and then press **Ctrl + v**, or select **Edit** ➡ **Paste.**

To reply to a text message

1. From the Text Messages window, select the folder where the SMS message that you want to reply to is located.
2. From the list of messages, select the message to which you want to reply.
3. Select **File** ➡ **Reply.**

   Or

   From the toolbar, click **Reply**. The **Message** dialog box is displayed.
4. The **To** field is automatically filled in with the recipient's phone number.
5. In the **Message** field below, type your reply. The number of SMS blocks needed to send the message is displayed together with the number of characters remaining in the current block.
6. Check the **Request Status Report** checkbox if you want to receive a status report when the message is delivered.
7. To send the text message, click **Send**. You can close the dialog box without sending the SMS by clicking ✕.

To forward a text message

1. From the Text Messages window, **s**elect the folder where the SMS message that you want to forward is located.
2. From the list of messages, select the message which you want to forward.
3. Select **File** ➡ **Forward.**

   Or

   From the toolbar, click **Forward**. The **Message** dialog box is displayed.
4. In the **To** field, type the recipient's mobile phone number. You can enter multiple phone numbers separated by a semicolon (;).

   Or

   Click the **To:** button to open the **Select Contact** dialog box. Select a contact, or more than one contact by holding down **Ctrl a**s you select. Click **OK.**
5. In the **Message** field underneath, type your text message. The number of SMS blocks needed to send the message is displayed together with the number of characters remaining in the current block.
6. Check the **Request Status Report** checkbox if you want to receive a status report when the message is delivered.
7. To send the text message, click **Send**. You can close the dialog box without sending the SMS by clicking ✕.

Managing SMS messages

To sort your text messages

1. In the Text Messages window, **s**elect the folder where the messages that you want to sort are located. By default, the messages are sorted in order according to the date and time they were sent.
2. From the list of messages, click the column heading that you want to use to sort the messages. For example, to sort the messages by the phone number from which they were sent, click the **From** column heading.

SIM Inbox full indication

When the SIM Inbox becomes full, is displayed in the Wireless Manager Status Window. You must delete some text messages or move some to the Saved Inbox.

To delete a text message

1. From the Text Messages view, **s**elect the folder where the message is located.
2. From the list of messages, select the message that you want to delete. The contents of the message are displayed in the information view.
3. Select **File** ➡ **Delete.**

   Or

   From the toolbar, click **Delete**.
4. Confirm the deletion.

To move a text message from the SIM Inbox to the Saved Inbox

1. In the Text Messages window, select the **SIM Inbox** folder.
2. From the list of messages, select the message that you want to move.
3. Select **File** ➡ **Move.**

   Or

   From the toolbar, click **Move**.
4. The selected message is moved to the **Saved Inbox** folder.

Pre-Configuration of Wireless Manager

Wireless Manager may be pre-configured to install with the necessary settings to access your corporate network. This chapter explains how to pre-configure the install package.

Settings Data

Settings data is maintained in a file called UserSettings.bin. You can define the following settings which are automatically saved to the file:

- Connection Profiles
- Preferences
- Radio Power
- Launch Buttons

UserSettings.bin is stored in the following location:

- Windows 2000 and Windows XP:

  `C:\Documents and Settings\<username>\Application Data\Sony Ericsson\Wireless Manager`
- Windows Vista:

  `C:\Users\<username>\Roaming\AppData\Sony Ericsson\Wireless Manager`

  where `<username>` is the user name of the Windows account that was used to install Wireless Manager.

How to Pre-Configure Wireless Manager

To define settings

Define your settings according to the instructions in the section Wireless Manager - Settings Window.

You can test them on your 'master' copy of Wireless Manager.

To distribute settings

As part of the installation

1. Make a copy of the CD-ROM or downloaded installation folders.
2. Navigate to `D:\Application Data\Sony Ericsson\Wireless Manager` where `D:` represents to root level folder from the CD-ROM.
3. Copy your customised UserSettings.bin file over the existing default version.

Manual distribution

Manually copy the UserSettings.bin file to the locations indicated above. The customised settings will be installed on to your target PCs.

Note:
Ensure that there is no previous copy of UserSettings.bin on the target PC. Any existing copy will be retained in preference to the version on the CD. See also - *Uninstalling your software* on page 8.

Troubleshooting

This chapter lists issues that you might encounter when you use your Sony Ericsson PC Card. These issued can be solved by using the instructions provided in this User guide, however, some might require you to contact your network operator.

Status information

You can display important hardware and software information about your Sony Ericsson PC Card that is useful when talking to your service provider or troubleshooting issues on your own.

To view the Wireless Manager information

1. Start Wireless Manager.
2. Select **View** ➡ **Information.** The **Wireless Manager Information** dialog box is displayed. Here you can view software, firmware, subscription and connection information.

To view the Wireless Manager Diagnostics

1. Start Wireless Manager.
2. Select **Help** ➡ **Diagnostics.** The **Wireless Manager Diagnostics** dialog box is displayed. The status of each step necessary to make a connection is shown here**.**

Step	Description
Card Inserted	Yes: Your PC Card is inserted in to the laptop and has been detected. No: Insert your PC Card; Close Wireless Manager, eject and reinsert your PC Card, restart Wireless Manager. If this still fails, reboot your PC.
Card Communicating	Yes: Wireless Manager is able to communicate with your PC Card. No: Close Wireless Manager, eject and reinsert your PC Card, restart Wireless Manager. If this still fails, reboot your PC.
SIM Inserted	Yes: A SIM Card has been detected. No: Insert your SIM Card; Check the SIM is fully inserted; Carefully clean SIM card contacts.
SIM Unlocked	Yes: SIM PIN has been correctly entered. No: Enter SIM PIN or PUK as required.
Radio On	Yes: Radio is on. No: Turn on radio using **Radio** ➡ **Enable.**
Registered	Yes: Successful registration to a mobile network. No: Check subscription, coverage and roaming status. Check for network faults.
Attached	Yes: Successful registration to the 'packet domain' of the mobile network. This is necessary to be able to make a connection. No: Check subscription; Check for network faults.
Connection Profile	Yes: A connection profile has been set up. Check that the profile has the correct information for your subscription. No: Create a Connection Profile - See *About Connection Profiles* on page 12

Step	Description
Connected:	Yes: A connection is in progress. No: No connection is in progress.
Warning / Errors	Specific error messages from Wireless Manager. Type **Ctrl-A** and then **Ctrl-C** to copy this information. Click **Clear** to clear this information.

3. Click **Save Log File** to save the Wireless Manager log file.

To view the Windows System Information

1. Start Wireless Manager.
2. Select **Help** ➡ **System Information.** The **Windows System Information** utility is opened. This can be used to provide general information about your laptop and its configuration.

Wireless Manager icon errors

The Wireless Manager Status Icon indicates some states where you must take action

Icon	Description
	Wireless Manager is waiting for your Sony Ericsson PC Card card to be inserted. Insert your PC Card.
	There is no SIM card. Please insert the SIM card. Check the SIM is fully inserted. Carefully clean SIM card contacts.
	Wireless Manager is waiting for you to enter your SIM PIN code.
	Radio is disabled. Turn on radio using **Radio** ➡ **Enable.**
	Radio is enabled, but there is no mobile network service available. Move to a location with network coverage.
!	Registration denied. Unable to register to the mobile network. Try manually selecting a different network. Move to a location with service from a mobile network that has a roaming agreement with your mobile operator.
?	No Connection Profile - See *About Connection Profiles* on page 12

Windows Local Area Network Icon messages

Error	Description and resolution
A network cable is unplugged	Possible causes: • You have clicked the Disconnect button in Wireless Manager. It is normal to see this message when disconnecting. • The mobile network has disconnected you. Try reconnecting. Try disabling and re-enabling the radio and reconnecting.

Functions Temporarily Unavailable

Error	Description and resolution
Grey menu options in the software applications	Grey text indicates a function that is temporarily unavailable or not relevant. For example you may be out of the coverage area.

Connection errors

Error	Description and resolution
No Connection Profile	No Connection Profile has been defined, therefore Wireless Manager does not have the necessary information to make a connection - See *About Connection Profiles* on page 12
PDP Authentication Failure	Wireless Manager was unable to complete the connection. In **View** ➡ **Settings** ➡ **Profiles** check the APN, username and password.
No More Links/Connections Allowed No More Multiplex Channels Available	Too many applications are trying to access your PC Card. Check that you are not trying to connect in Wireless Manager and use the Wireless Modem port (e.g. Dial-Up Networking) at the same time.

Network errors

Error	Description and resolution
Network Not Allowed - Registration Denied Mobile Network Not Allowed Registration Denied Unable to Register to Network	Your PC Card cannot register to the mobile network. Check your subscription. Check for any network fault conditions. If roaming, go to **View** ➡ **Settings** ➡ **Mobile networks**, un-check **Automatically Choose a Network** and select an alternative network - See *Mobile Networks* on page 26 for more information.
No Network Service	Operation cannot be completed because there is no network service. Move to a location with network service, or try the resolutions above.

SIM Card errors

Error	Description and resolution
SIM PUK Locked Enter SIM PUK	SIM PIN has been entered incorrectly too many times. You must enter the PUK code to unlock the SIM.
No SIM Card SIM Not Inserted	No SIM Card has been detected. Insert a SIM Card and make sure it is correctly inserted. Carefully clean the SIM Card contacts if there is still a problem.

Error	Description and resolution
Enter Network Lock PIN Corporate Personalization PIN/ PUK Required NetworkPersonalization PIN/ PUK Required Network Subset Personalization PIN/PUK Required Service Provider Personalization PIN/PUK Required	Your PC Card has been configured to accept only SIMs provided by your network operator or service provider. To remove this configuration (lock) you must obtain the unlock code and enter it.

Phonebook errors

Error	Description and resolution
Phonebook Not Ready	SIM Phonebook cannot be accessed.
Phonebook Not Supported	No SIM Phonebook available.
SIM phonebook is full: <n> entries ignored.	Copy, Move or Import action has filled up the SIM Phonebook. <n> entries could not be copied. Clear space in the SIM Phonebook and try again.
File contains invalid data: <n> line(s) ignored	The file you are importing in to Wireless Manager contains one or more lines which cannot be read. Check and correct the line(s) that are faulty using a text editor. - see *To import a Phonebook or a Phonebook entry* on page 37 for more information.

Text Message errors

Error	Description and resolution
Unable to receive SMS	Make sure you have network coverage. Make sure the SMS Inbox is not full - see *SIM Inbox full indication* on page 43
Cannot send SMS	Make sure you have network coverage. Make sure the SMS Inbox is not full - see *SIM Inbox full indication* on page 43
I opened an text message and now cannot find it.	Check the Saved Inbox folder - see *Move Read messages from SIM Inbox to Saved Inbox* on page 29

Performance and connectivity problems

Data transfer is very slow

1. Some homes and most offices are steel-framed structures. The steel in such buildings may interfere with your network's radio signals, thus causing a slowdown in the data transmission rate. Try moving your computers to different locations in the building to see if performance improves.
2. You have moved from 3G (UMTS/HSDPA) to 2G (GPRS/EDGE) coverage. The type of coverage is indicated in the signal strength meter. Move back to 3G coverage.
3. Your laptop is connected to another Local Area Network connection. This condition occurs if you dock your system into a docking station that has an active Ethernet port while your Sony Ericsson PC Card is still active and connected. This is because Windows must now handle two active network connections.
4. Your Wireless LAN is switched on and active. This is because Windows must now handle two active network connections.

My connection is active but I cannot browse web pages

1. In Internet Explorer go to **Tools** ➡ **Internet Options** ➡ **Connections tab** ➡ **LAN Settings** ➡ and un-check the **Proxy Server** checkbox.
2. You may need to configure a proxy server for your web browser. Check with your mobile operator or network administrator. To enter the configuration go to **Tools** ➡ **Internet Options** ➡ **Connections tab** ➡ **LAN Settings.**

Windows error codes

Windows Dial Up Networking

If you establish a connection outside of Wireless Manager using Dial-Up Networking, you may encounter the following errors:

Error	Description and resolution
Error 734: The PPP link control protocol was terminated during dial-up.	The APN entry is incorrect, the signal is weak or the connection is lost whilst dialling. If you are experiencing problems contact your network operator and check the APN. This error applies to GPRS over DUN, for more information see *Configuring a DUN connection* on page 51.
Error 678: Computer you are dialling is not responding during dial-up.	Either: Service is not supported by SIM or the remote computer at the other end is not answering. Check your network subscription with your network operator if necessary.
General	Ensure Wireless Manager is running and radio is on, or **Enable radio all the time** is set. Check for a mistyped AT Command in the **Extra Initialization** field.

Appendix A - Connection Parameters

Description of Connection Parameters

Required	Useful information
Access Point Name (APN)	The APN server resource to contact, for example, interent.operator.net - to connect to the Internet via the network operator's or your corporate Intranet via a VPN.
Username	The username your network operator gave you when the account was set up. Some accounts do not require a Username. In this case, leave the field blank.
Password	Password associated with the username, given to you by the network operator. Some accounts do not require a Password. In this case, leave the field blank.
Primary DNS	This tells your PC Card where to find the network operator's DNS Service. DNS translates addresses such as www.sonyericsson.com to the numeric IP address so that the information can be accessed. Normally, this is assigned automatically. Format example:123.9.45.2
Secondary DNS	Only required if the DNS assignment is not automatic. Format example: 123.9.45.1

Appendix B - Defining Connections in Windows

Creating a GPRS/EDGE/UMTS/HSDPA connection by using Windows dial-up networking (DUN)

Wireless Manager makes connections via the Sony Ericsson Mobile Broadband Network Adapter. These connections are made by using the **Connect** button in the Wireless Manager or they are made automatically if Wireless Manager is configured to start when Windows starts and to make the connection.

In some applications, it may be necessary to connect using Windows Dial-Up Networking (DUN) instead. The following examples typically require a DUN connection:

- Where a LAN proxy is in use for a corporate network connection and a separate proxy is required for a mobile internet connection. Windows can manage only one Web proxy across all LAN connections, however individual proxies can be set up for each DUN connection.
- Where it is useful to initiate the connection from a Windows application rather than in Wireless Manager.

Configuring a DUN connection

Instead of dialling a conventional telephone number, GPRS/EDGE/UMTS/HSDPA connections are made by dialling the code *99***1# to *99***10# as the telephone number. When the PC Card processes this number, it initiates the connection that has been defined using the AT+CGDCONT command.

In Windows, each modem has an “extra initialization” string. This is typically used to store special AT commands that initialize the modem. The commands are sent to the modem before the DUN connection is established.

To configure modem settings

1. From the Windows desktop, select **Start** ➡ **Control Panel** ➡ **Phone and Modem Options.** The **Phone and Modem Options** dialog box displays**.**

   Note:
   In Windows Vista, use the **Classic View** of the Control Panel.

2. Click the **Modems** tab.
3. Select the Sony Ericsson modem and click **Properties**. The Modem Properties dialog box opens.
4. Click the **Advanced** tab.
5. In the **Extra initialization commands** field, type the following command:

   `AT+CGDCONT=<context_ID>,"IP","<APN>"`

   where <*context_ID*> is the context ID for your connection, and <*APN*> is the access point for your service.

   For example,

   `AT+CGDCONT=3,“IP”,“MyCompanyAPN”`

   Note:
   Using CID 3 prevents the CID from being overwritten by Wireless Manager.

6. Click **OK**. **The Phone and Modem Options dialog box displays.**
7. Click **OK**.

This example uses Context ID 3. There are 10 possible contexts supported by your Sony Ericsson PC Card (1..10). Context ID 1 is reserved for use by connections created by the Wireless Manager.

Refer to the AT Command Manual or contact your service provider or network administrator for further assistance.

To define a Windows DUN Connection (Windows XP)

1. From the Windows desktop, select **Start** ➡ **Control Panel** ➡ **Network Connections.**
2. Select **File** ➡ **New Connection.** The New Connection Wizard starts.
3. Click **Next**.
4. Select **Connect to the Internet**, and then click **Next**.
5. Select **Set up my connection manually**, and then click **Next**.
6. Select **Connect using a dial-up modem**, and then click **Next**.
7. From the **Select a Device** list, select your Sony Ericsson modem, and then click **Next**.

   Note:
   Make sure no other modem is checked.

8. In the **ISP Name** field, type a descriptive name to identify the connection.
9. In the **Phone number** field, type the following:

   *99***<*context_ID*>#

   where <*context_ID*> is the context ID of the DUN configuration that you created.

   For example, type the following to connect to context ID 3:

   *99***3#

10. In the Internet Account Information dialog box, enter your user name and password information.

    Note:
    Username and Password may be blank.

11. Check the box below if this username is good for all users of the PC. Un-check the **Make this the default connection** checkbox unless you always want to PC to use this connection.
12. Click **Next**. Check **Add a shortcut to this connection on my desktop** to make it easy to find.
13. Click **Finish**. A dial-up connection dialog box displays for your new connection.

    Note:
    If a proxy is required for Web access, close the dial-up connection dialog box. Open your Web browser and select **Tools** ➡ **Internet Options**. On the Connections tab, select your DUN connection and click **Settings**. Enter the proxy details in the Proxy Settings pane, and then click **OK**. Click **OK**.

To connect using a DUN connection

1. From the Windows desktop, **Start** ➡ **Control Panel** ➡ **Network Connections**.
2. Double-click on the GPRS over DUN connection that you created. The receive and transmit byte counts are displayed.

   Note:
   It is also possible to configure applications such as Internet Explorer and Outlook Express to use the DUN connection by default.

To disconnect from a DUN connection

From the Windows notification area, right-click the DUN connection icon and select Disconnect.

To define a Windows DUN Connection (Windows Vista)

1. From the Windows desktop, select **Start** ➡ **Control Panel**
   a. In **Control Panel Home** select **Connect to the Internet**.

   Or

   b. In **Classic View** Select **Network and Sharing Center, Set up a connection or network** and then **Connect to the Internet.**
2. Select **No, I'll create a new connection.**
3. Click **Next**.
4. Select **Dial-up**.
5. Select your Sony Ericsson modem.
6. In the **Dial-up phone number** field, type the following:

   *99***<*context_ID*>#

   where <*context_ID*> is the context ID of the DUN configuration that you created.

   For example, type the following to connect to context ID 3:

   *99***3#
7. Enter your **User name** and **Password**.

   Note:
   Username and Password are often left blank for GPRS/EDGE/UMTS/HSDPA connections.

8. In the **Connection name** field, type a descriptive name to identify the connection.
9. If other users will need to use the connection, check the **Allow other people to use this connection** checkbox.
10. Click **Connect**. Windows will connect and test the connection.

    Note:
    If a proxy is required for Web access, close the dial-up connection dialog box. Open your Web browser and select **Tools** ➡ **Internet Options**. On the Connections tab, select your DUN connection and click **Settings**. Enter the proxy details in the Proxy Settings pane, and then click **OK**. Click **OK**.

Logging on to Windows using a Dial-up connection

Your Sony Ericsson PC Card supports the Windows **Log on using dial-up connection** feature.

To log on to Windows using a GPRS/EDGE/UMTS/HSDPA dial-up connection, your Sony Ericsson PC Card must be inserted and the radio must be enabled before you log on. To enable the radio prior to logging on, select **Enable radio all the time** checkbox in **Settings** ➡ **Radio Power**. See *Radio Power* on page 31 for more details.

Caution!
Never start your PC in this mode if you are in a location where mobile devices should not be used (for example, on an airplane, in a hospital, or near a blast site).

Only check this option if you need to log on to a Windows domain via a wireless dial-up connection. This will permit you to register with the network and establish a connection when the Windows logon window is displayed.

Note:
It is not possible to display network status or signal strength during the Windows logon procedure. You should allow enough time for your Sony Ericsson PC Card to find and register with the wireless network prior to attempting to log on.

The dial-up connections available to the Windows Logon must have been created by a user account with *administrator* privileges and designated *For all users*. This must be done using the **Windows Network Connection Wizard.**

TCP Settings for Optimal Throughput

When using Dial-Up Networking, it is necessary to change some global parameters in Windows in order to achieve the highest download speeds. The parameters and recommended values are given below. The changes may be made directly in the Registry or via third party tools.

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters]
"TcpWindowSize"=dword:0000ffff
"SackOpts"=dword:00000001
"TcpMaxDupAcks"=dword:00000002
"Tcp1323Opts"=dword:00000001
```

Caution!
Do not attempt to edit the Registry without first making a backup.

Appendix C - Additional Information

The following section contains additional information about Wireless Manager.

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Glossary

2G

Generic term for the second generation of cellular networks, when digital technology was used. GSM is a 2G network.

2.5G

2G network that includes the addition of packet-based data service. GSM networks with GPRS fall in to this category.

3G

Third generation of cellular networks, such as UMTS.

APN

Access Point Name. Used to define services to which the terminal can connect. For example, Internet, WAP, MyCompany all represent typical APNs.

bps

Bits per second – rate of data flow.

COM Port

Defines a serial/RS-232 port within the Windows environment. May be physical (COM1 port on the rear of the PC) or virtual (COM5 port communicating with a PC Card modem)

CS-1 to CS-4

Coding Scheme. Determines the data rate per timeslot in GPRS.

CSD

Circuit Switched Data. CSD is a GSM service providing a CS data connection at a rate of 9.6 or 14.4 kbps.

DUN

Dial-Up Networking.

E-GPRS

Enhanced GPRS. A GPRS network enhanced with EDGE technology to provide greater speed and capacity.

EDGE

Enhanced Data rates for Global Evolution.

e-GSM

Extended GSM. New frequencies specified by the European Radio Communications Committee (ERC) for GSM use when additional spectrum is needed (Network-dependent). It allows operators to transmit and receive just outside GSM's core 900 frequency band. This extension gives increased network capability.

ETSI

European Telecommunications Standards Institute. www.etsi.org.

GGSN

Gateway GPRS Support Node.

GPRS

General Packet Radio Services.

GSM

Global System for Mobile Communications. GSM is the world's most widely-used digital mobile phone system, now operating in over 160 countries around the world.

GSM 850

Refers to a GSM system running in the 850MHz band. Used in the USA and Canada.

GSM 900

GSM network operating in the 900MHz band. Used mainly in Europe, Australia and South Africa.

GSM 1800

Also known as DCS 1800 or PCN, this is a GSM digital network working on a frequency of 1800 MHz. It is used in Europe and Asia-Pacific.

GSM 1900

Also known as PCS. Refers to a GSM system running in the 1900MHz band. Used in the USA and Canada.

HTML

HyperText Markup Language.

HSDPA

High Speed Downlink Packet Access.

HTTP

HyperText Transfer Protocol.

ISP

Internet Service Provider.

kbps

Kilobits per second – rate of data flow.

LAN

Local Area Network.

ME

Mobile Equipment.

MO

Mobile Originated. For example, an SMS message sent from a mobile terminal.

MMI

Man-Machine Interface.

MS

Mobile Station.

MT

Mobile Termination.

MTU

Maximum Transmission Unit.

PC

Personal Computer.

PCS

Personal Communications Services, often used to describe GSM1900 networks.

PC Card

A card having physical and electrical characteristics specified by PCMCIA providing extra functionality when inserted into a laptop PC. Typical examples are modems and network cards. Type refers to the thickness of the card.

PCMCIA

Personal Computer Memory Card International Association – defines specifications for PC Cards. www.pcmcia.org.

PDF

Portable Document Format. A common format for the electronic distribution of documents.

PDP

Packet Data Protocol.

Phonebook

Memory in the SIM card where phone numbers can be stored and accessed by name or position.

QoS

Quality of Service

RADIUS

Remote Access Dial-In Service. Facility at the ISP or corporation to manage remote data connections.

RAS

Remote Access Service.

RX

Receive

SC

Service Centre (for SMS).

Network operator

A company that provides services and subscriptions to Sony Ericsson PC Card users.

SIM card

Subscriber Identity Module card – a card that must be inserted in any GSM-based mobile terminal. It contains subscriber details, security information and memory for a personal directory of phone numbers.

SMS

Short Message Service. Allows messages of up to 160 characters to be sent and received via the network operator's message centre to a SMS-enabled PC Card. Longer messages can be sent and received by concatenating multiple SMS blocks together.

SMS CB

Short Message Service Cell Broadcast is designed for simultaneous delivery of messages to multiple users in a specified area. Typically, GSM operators use SMS CB to send different news or data to users who subscribe to the service.

TCP/IP

Transmission Control Protocol/Internet Protocol.

TCP/IPv4

TCP/IP Version 4. Most widely implemented form of TCP/IP today having a 4 byte address format such as 212.161.127.136.

TCPWindowSize

Determines the largest TCP receive window that the system offers. The receive window is the number of bytes a sender can transmit without receiving an acknowledgment.

TE

Terminal Equipment. Generic term for GSM terminals such as phones and PC Cards.

TLS

Transport Layer Security. Used by Web browsers, for example.

TX

Transmit

Type II

Refers to thickness of a PC Card as defined in the specification from PCMCIA.

UMTS

Universal Mobile Telecommunications System (UMTS)

UMTS is a 3G technology standard for wide-area wireless data communication that is based on the GSM standard. The UMTS standard uses advanced network operator mobile internet services to achieve data transfer rates up to 384 kbps, which are ideal for media streaming, video MMS, instant shopping and banking.

URL

Uniform Resource Locator.

USSD

Unstructured Supplementary Services Data. Narrow-band GSM data service. For example, entering *79*1234# might return the stock price for stock 1234.

VPN

Virtual Private Network.

WHQL

Windows Hardware Quality Labs. A Microsoft test and approval process. The Device Drivers for Sony Ericsson PC Cards are signed by WHQL so that Windows 2000, Windows XP and Windows Vista do not warn the user of unknown and untested software.

WWW

World Wide Web.

XML

Extensible Markup Language.

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