



Personal Computer

VGN-TX600 Series

SmartWi Connection Utility
Guide

SONY[®]

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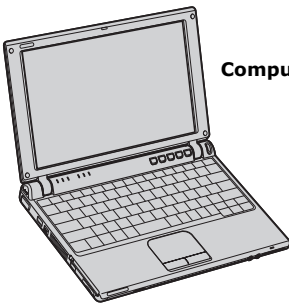
About your Computer

Thank you for purchasing a VAIO® VGN-TX600 Series computer! Your new machine combines state-of-the-art hardware and software to bring you unparalleled wireless connectivity.

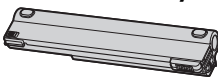
Contents

These hardware components are included.

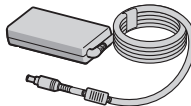
Carton Contents



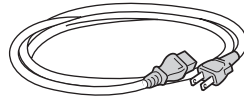
Computer*



Battery



AC adapter



Power cord

* A Cingular SIM card is preinstalled in your computer.

About Wireless Connectivity

With built-in Wireless WAN capabilities, your computer is equipped to connect wirelessly to your e-mail, the Internet, and any intranet networks with which you may be associated.

To begin making use of wireless connectivity, you will need to insert a provided Subscriber Identity Module (SIM) card into the computer before turning on your computer.

About the Cingular SIM Card

The SIM card, provided by Cingular Wireless, is a small printed circuit board that stores data identifying the user to the network service provider. It must be inserted into the computer for you to make use of the wireless services.



Only the Cingular SIM card is supported. It is normally preinstalled in your computer.

Inserting the Cingular SIM card

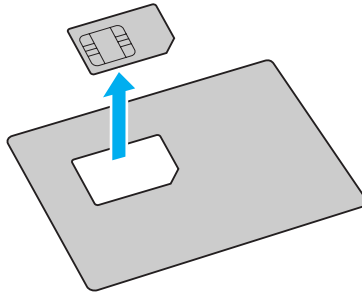
The Cingular SIM card should be preinstalled; you may follow these procedures to verify that the SIM card is indeed installed in the SIM card slot at the rear of your computer.



Do not touch the SIM card connectors. As a precaution, always make sure you have a firm hold of your computer before inserting or removing the SIM card.

- 1 Unless preinstalled, your SIM card is contained within a larger card, about the size of a credit card. Remove the smaller SIM card by pushing it out from the larger card.

Cingular SIM Card



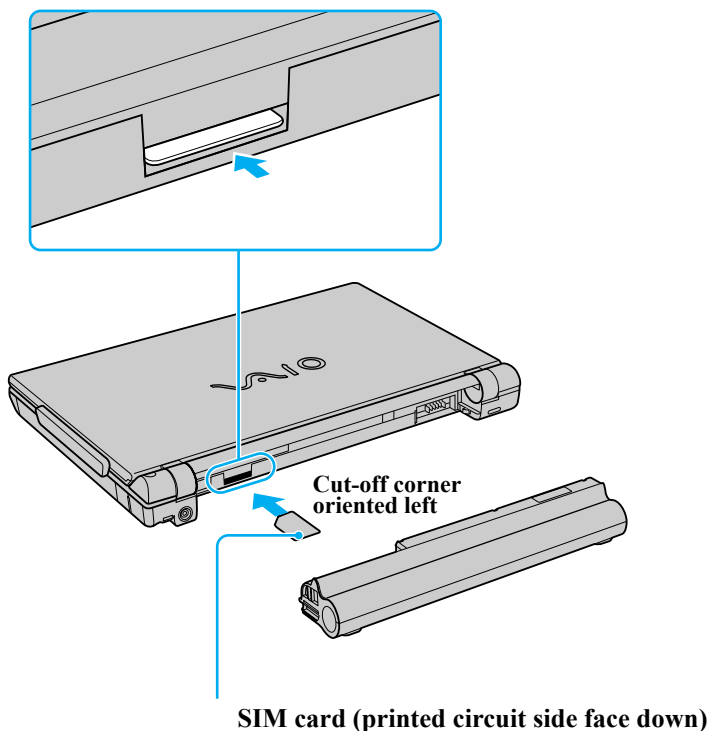
- 2 Next, orient your computer so you are facing its rear portion.



Before inserting the SIM card into the computer, make sure your computer is turned off and the battery is not attached.

- 3 Locate the SIM card slot in the back of the computer and with its printed circuit side facing down, gently insert the SIM card into the slot. Check the SIM card for directions on which way to orient the card into the slot.

Inserting the SIM card



If your computer came with a preinstalled Cingular SIM card, verify that the card is indeed in the SIM card slot.

If a SIM card can not be found in the unit, there are two ways to obtain the card:

- 1 Contact Sony's VAIO PC support line (888)-476-6972 and request a free replacement SIM card. Please note that you must have the VAIO product model number and serial number to receive the replacement SIM from Sony. Subject to availability, the replacement SIM card will be shipped from Sony to you without charge.
- 2 Go to the local Cingular store and ask for SIM card for local service. Additional cost would apply in this process.



To activate your Cingular account, call Sony customer support at 888-604-VAIO (8246). When calling customer support, you may be asked for the SIM# (IMSI #) and IMEI code. To determine these values, start the Cingular Connection Manager (CCM), open Tools, and click Network Info. Alternatively, you can check the the rear of your VAIO computer. The IMEI # and SIM # (ICCID) should be printed on the back of your computer.

Removing the SIM Card

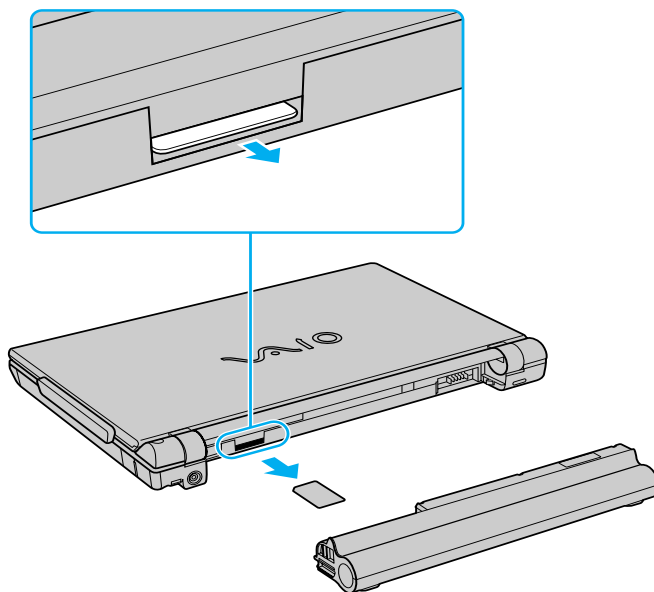


Do not touch the SIM card connectors. As a precaution, make sure you have a firm hold of your computer before inserting or removing the SIM card.

To remove the SIM card, again orient your computer so you are facing its rear portion. Make sure the computer is turned off.

- 1 Locate the SIM card slot.
- 2 Gently push in the SIM card until you hear it click, then release the card allowing the SIM card to eject. After the SIM card ejects, gently pull the card out of the slot, away from the computer.

Removing the SIM Card



Take care not to damage the card in any way, either by bending or putting undue pressure on the card.

About SmartWi Connection Utility

The SmartWi Connection Utility functions largely as a switch manager between the various forms of wireless connectivity: Bluetooth®, WLAN, and WWAN using Cingular Wireless software.

By clicking on each of the three wireless options, the SmartWi Connection Utility switches to the corresponding one.

SmartWi Connection Utility main screen



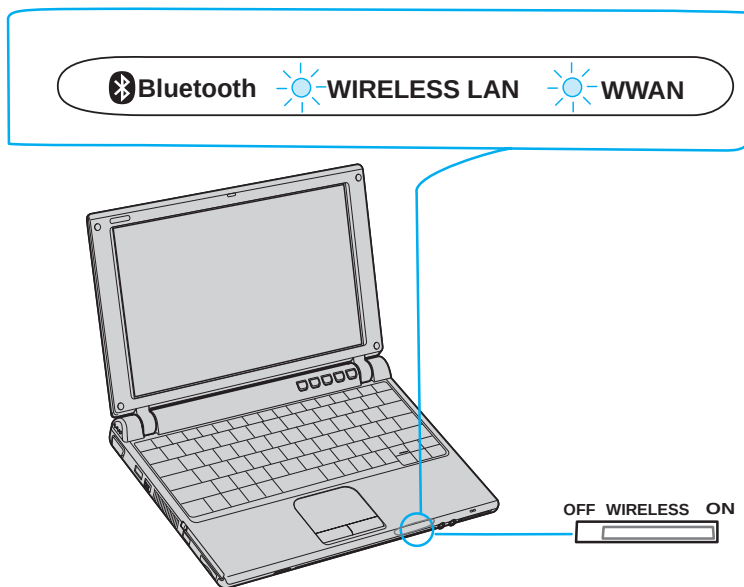
Starting SmartWi Connection Utility

At initial startup, a pop-up prompt appears from the Task Tray. Selecting Yes on the prompt launches the SmartWi Connection Utility, and then you are prompted to activate your Cingular account.

If you close the program, however, and later wish to restart it, do the following:

- 1 First make sure your computer is turned on.
- 2 Make sure the wireless switch is turned on. If it is not, locate the switch on the front left portion of your computer and slide the switch to the right.

Wireless switch and indicators



Once you turn on the wireless switch, the SmartWi Connection Utility window appears automatically.

- 3 You may also click the **SmartWi Connection Utility** icon in the taskbar notification area. Depending on the wireless selection, one of six icons may appear in the taskbar notification area.

SmartWi Connection Utility icons



Bluetooth



WWAN



WWAN and Bluetooth



WLAN



WLAN and Bluetooth



Wireless device is turned off (no WWAN or WLAN)



Note that WWAN and WLAN cannot coexist simultaneously. When one is selected, the other is automatically deselected.

- 4 Alternately, press **Start**, select **All Programs**, select the **VAIO SmartWi Connection Utility** folder, and click **VAIO SmartWi Connection Utility**. The **SmartWi Connection Utility** dialog box displays.

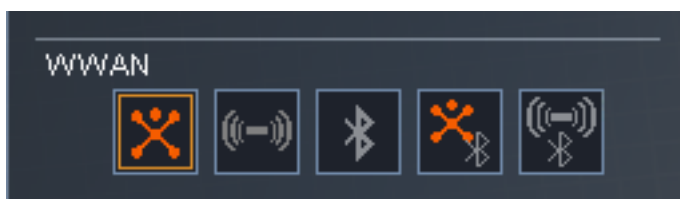
About the Wireless Switching Window

The Wireless Switching Window is another utility that enables switching between wireless modes. It promotes ease of use by allowing you to switch between Bluetooth®, WLAN, and WWAN simply by pressing keyboard buttons instead of using the touch pad (or a separately available USB mouse).

Using the Wireless Switching Window

To start the Wireless Switching Window in order to switch between wireless modes, simply press **Fn + F1** to bring up the window. Then hold the **Fn** key down while pressing the **F1** key to toggle between modes.

Wireless Switching Window



Using Wireless Connection Utility

To use the wireless connectivity features and begin using e-mail or connecting to the Internet, simply click the desired button: Cingular Wireless (for WAN connectivity), WLAN, or Bluetooth®.

Wireless Connection Utility main screen

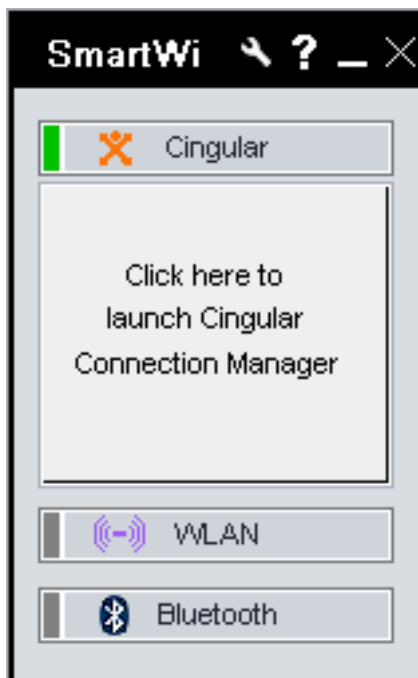


Using the Cingular Wireless WAN connection

To use Cingular WAN connectivity, do the following:

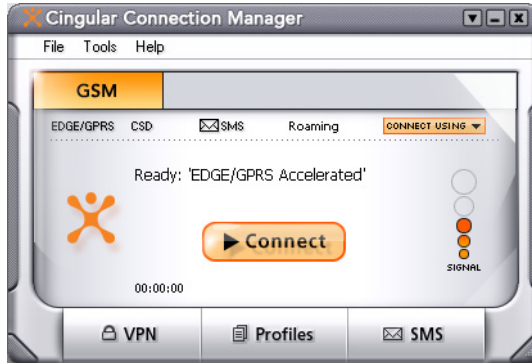
- 1 Click the **Cingular** button on the **SmartWi Connection Utility** main screen. A **Cingular Connection Manager** launch area display appears below the button.

Cingular Connection Manager launch area



- 2 Click anywhere in the **Cingular Connection Manager** launch area.
The **Cingular Connection Manager** window displays.

Cingular Connection Manager main screen



- 3 By default, your connection to Cingular service initiates.
- 4 Follow any additional directions on the **Cingular Connection Manager** window displays.



For help, click the Help drop-down menu and click Help to display the Cingular Connection Manager help file.

Using the Wireless LAN connection

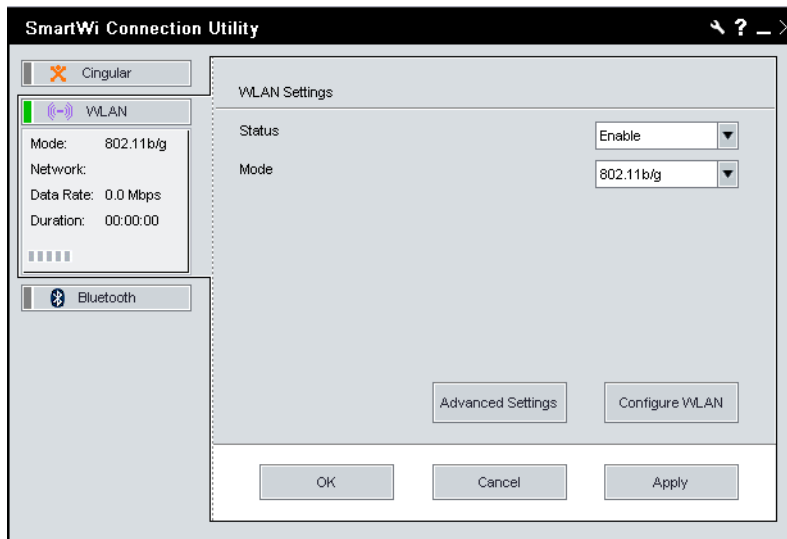
To use Wireless LAN (WLAN) connectivity, do the following:

- 1 Click the **WLAN** button on the **SmartWi Connection Utility** main window.
A status display appears below the button.
- 2 Next, click the status display below the **WLAN** button. The window enlarges to display **WLAN Settings**.



If it is the first time connect with WLAN, the Wireless Help Utility will launch automatically and guide you during initial setup.

WLAN Settings dialog box



To deactivate WLAN connectivity, select Disable for the Status field drop-down box on the WLAN Settings dialog.

By default, WLAN uses the IEEE802.11b/g standard technology for WLAN connectivity. The standard includes the Wired Equivalent Privacy (WEP) encryption method, which is a security protocol and WiFi Protected Access.

To use IEEE802.11b or IEEE802.11g WLAN connectivity standard only, select them from the Mode field drop-down box.

-  Wireless LAN devices using the IEEE802.11a standard and the ones using the IEEE802.11b or g standard cannot communicate because the frequencies are different. Wireless LAN devices using the IEEE802.11g standard can only communicate with a device using the IEEE802.11b standard, not with the IEEE802.11a standard.
-  IEEE802.11b: The standard speed is 11 Mbps, or about 30 to 100 times faster than a standard dial up.
-  IEEE802.11g: The standard speed is 54 Mbps, or about 5 times faster than a Wireless LAN device using the IEEE802.11b standard.

Configuring the WLAN connection

You can configure your computer to connect to a WLAN in one of two of the following ways:

- ☐ without an access point device (ad-hoc)
- ☐ with an access point device

An ad-hoc network is a network in which a local network is created only by the wireless devices themselves, with no other central controller or access point device. Each device communicates directly with other devices in the network. For example, you can set up an ad-hoc network easily at home to communicate between two computers.

A computer communicating with an access point device is configured as part of an infrastructure network. An infrastructure network is a network that extends an existing wired local network to wireless devices by providing an Access Point, for example the **Sony Access Point**. The Access Point bridges the wireless and wired LAN and acts as a central controller for the Wireless LAN. The Access Point coordinates transmission and reception from multiple wireless devices within a specific range.

- ☐ To configure your computer to communicate without an access point device (ad-hoc), follow these steps:
 - 1 On the WLAN Settings dialog box, click the **Configure WLAN** button. The Wireless Network Connection Properties window displays.
 - 2 If not automatically selected, select the **Wireless Networks** tab.
 - 3 Click the **Add...** button.
The **Association** tab opens in the **Wireless network properties** window.
 - 4 Enter a **Network name (SSID)**.
You can choose a **32-digit** alphanumeric name. If you want to communicate between two or more computers, you need to configure all these computers using the same network name.
 - 5 Select **Open** from the **Network Authentication** drop-down box.
 - 6 Select **WEP** from the **Data Encryption** drop-down box.

- 7 Deselect the **The key is provided for me automatically** option button. The Network key, Confirm network key, and Key index (advanced) fields activate.
- 8 Enter the **Network key**.
The network key should be 5 or 13 alphanumeric characters long. You can choose whatever you want. If you want to communicate between two or more computers, you need to configure all these computers using the same network key.
- 9 Enter exactly the same **Network key** again, for confirmation.
- 10 Select the check box **This is a computer-to-computer (ad hoc) network; wireless access points are not used**.
- 11 Click **OK**.
Your **Network name** appears in the **Preferred networks** area in the **Wireless Networks** tab display.
- 12 Click **Advanced**.
The **Advanced** window displays.
- 13 Select the **Computer-to-computer (ad hoc) networks only** option button.
- 14 Click **Close**.
- 15 Click **OK**.

Your computer is ready to communicate with another computer.

To disconnect from a computer-to-computer (ad-hoc) network, click **Configure WLAN** on the WLAN Settings dialog box, select the **Network Name** in the Preferred networks area, click **Remove**, and then click **OK**.

- ☐ To configure your computer to communicate with an access point device, follow these steps:

 Use the VAIO Wireless Utility to guide you through the set up process and provide you with more detailed information about wireless connections.

- 1 Make sure an access point is set up. See the instructions that accompanied the access point for more information.
- 2 Click **Start**, point to **All Programs**, and click **VAIO Wireless Utility**. The **VAIO Wireless Utility** displays.
- 3 Follow the on-screen instructions.

Configuring Proxy and IP Settings for WLAN connections

You can configure Proxy and IP Settings for use in connecting to your WLAN network. To do this:

- 1** From the **WLAN Settings** dialog box, click **Advanced Settings**.
The Advanced Settings window displays.
- 2** Select a network profile from the list that you want to configure, and then click **Edit**.
 - ☐ To configure your Proxy, follow these steps:
 - 1** On the **Proxy** tab, select whether to use the Internet Explorer proxy settings or not, or to use a proxy server of your choice for your WLAN connection.

If you want to use a specified proxy server, you must identify its address and port.
 - 2** Click **Apply** and proceed to configure IP Settings or click **OK**.
 - ☐ To configure your IP Settings:
 - 1** On the **IP Settings** tab, select whether to obtain IP and DNS server address automatically or not. If you do not want to obtain IP automatically, you must identify the IP address, subnet mask, and default gateway addresses, and identify preferred and alternate DNS servers.

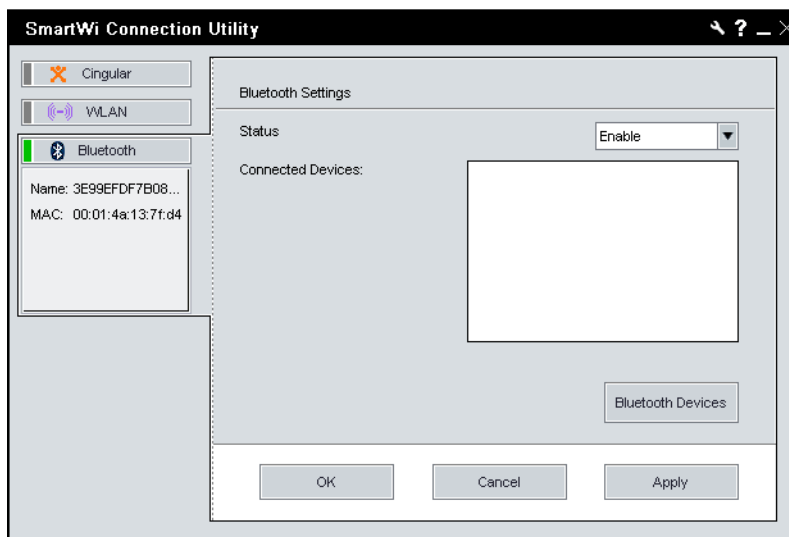
Optionally, you can select to obtain IP automatically and choose to specify preferred and alternate DNS servers.
 - 2** Click **Apply** and proceed to configure a Proxy or click **OK**.
- 3** Click **Close** to close the Advanced Settings window.

Using the Bluetooth® technology connection

To use Bluetooth® technology connectivity, do the following:

- 1 Click the **Bluetooth** button on the **Wireless Connection Utility** dialog box. This activates Bluetooth® technology, and a status display appears below the button.
- 2 Next, click the status display below the **Bluetooth** button. The window enlarges to display **Bluetooth Settings**.

Bluetooth Settings dialog box

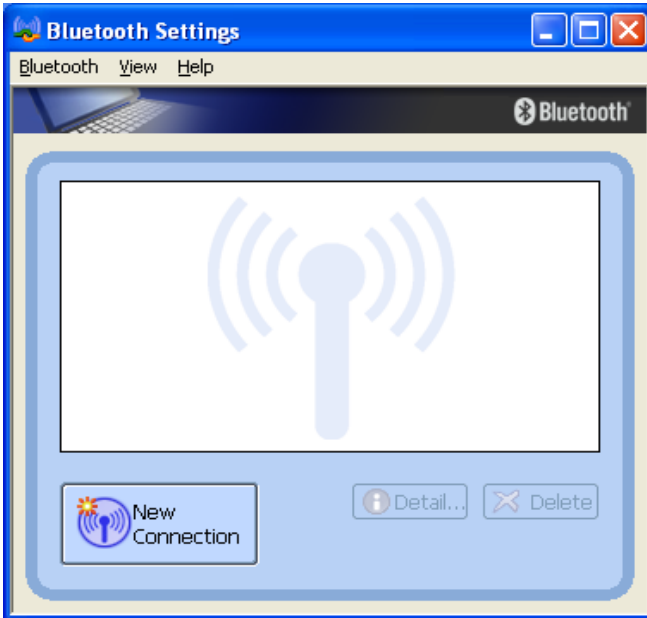


- 3 Click the **Bluetooth Devices** button.

The **Bluetooth Settings** dialog box displays listing the Bluetooth devices already configured.

If there are no previous Bluetooth devices configured or you are invoking the Bluetooth function for the first time, the **Add New Connection Wizard** displays for searching Bluetooth devices. Follow the on-screen instructions.

Bluetooth Settings dialog box



- 4 From the **Bluetooth Settings** dialog box, you can select the Bluetooth® device displayed in the list to view details about the device, reconfigure, or delete a device previously found.

Click **New Connection** to start the **Add Bluetooth Device Wizard** for searching and locating additional Bluetooth® devices in the vicinity of your computer. Follow the on-screen instructions.

When completed, click **OK**.

General Functional Information

SmartWi Connection Utility supports the following Wireless WAN-related functionality:

❑ **Network Systems**

GSM 850, 1800, and 1900

❑ **Network Services**

GPRS/EDGE and SMS

Note: Speech services are not supported

❑ **SIM Card**

Small plug-in card, XX-type with SIM lock

Note: The supplied Cingular SIM card is the only SIM card supported.

❑ **Speed**

Maximum continuous speed and FTP download speeds to 160 kbytes or more.

❑ **Interface Type**

Internal USB

❑ **Connection Type**

PPP connection across USB

❑ **Communication Port**

Virtual communications on COM port 5

Software Upgrades

You can upgrade your PC Card firmware/software from the Internet website <http://esupport.sony.com>.

FAQ and Troubleshooting

This section provides answers to frequently asked questions (FAQ) and possible operating workaround information for the SmartWi Connection Utility (SWCU). In addition, this information can help to clarify issues encountered when using the SmartWi, Cingular Connection Manager and its associated features.

Answers to Frequently Asked Questions

□ General

Question: What is the SmartWi Connection Utility?

Answer: SWCU is a wireless connection utility application that is designed to switch and manage wireless connection modes between Bluetooth, 802.11, and Cingular GPRS/EDGE.

Question: Can I connect to two separate types of wireless connections simultaneously (for example, GPRS and 802.11b/g)?

Answer: No. Connections are mutually exclusive, with the exception of Bluetooth which will run concurrently with other wireless connections. Bluetooth can be switched on and off via the software without causing interference to the current connection (for example, GPRS or 802.11b/g). The hardware indicator/switch for the wireless devices is located at the front panel on the left side.

Question: Are 802.11a (5GHz) WLAN connections supported under SWCU?

Answer: No, only 802.11b and 802.11g (2.4GHz) connection types are supported. In the future, 802.11a may become available.

❑ SWCU Operation

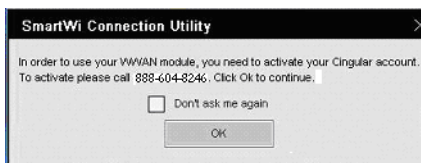
Question: Why do I get a VAIO Wireless Help Utility prompted when launching WLAN?

Answer: If there is not any WLAN profile configured previously (this is the first time using WLAN), the VAIO Wireless Help Utility will be launched automatically, or the VAIO Wireless Help Utility loads when it detects a failure in interfacing with the driver. To remedy the problem, follow the suggestions from the assist help section.

Question: I clicked the “Show All Prompts” button for the Reset all messages feature, but nothing seemed to happen. What happened when I clicked this button?

Answer: Clicking the Show All Prompts button for the Reset all messages feature activates all the prompts (not options) that request the “Don’t ask me again” action. Normally, when notifications appear from yes/no prompts you can select if you do not want to be asked again for the notifications by checking the “Don’t ask me again” check box. The “Reset all messages” feature provides a way to clear all the checkboxes from all the prompts simultaneously. As a result, the prompts will display again. The following figure is an example of a prompt that would display after clicking clicking the Show All Prompts button.

Show All Prompts action example



Question: Why isn’t there support for “Hotkeys” to maneuver within SWCU?

Answer: The hotkeys feature will be incorporated into future SWCU versions.

Question: I clicked on the SmartWi minimize option and noticed the minimized icon was not in the taskbar. Where is the minimized application and how do I bring back the application to the desktop?

Answer: The SmartWi application was minimized into the Task-tray, which shows the “SWCU” icon and not into the “Taskbar”. Depending on the type of connection and combination, if any, the SWCU icon will reflect the current connection. For example, if the SmartWi connects simultaneously with the Bluetooth device, the icon will reflect the connection type with a Bluetooth emblem. Switching on and off the Bluetooth option does not interfere with WiFi or WWAN connection.

To bring forward the SmartWi application to the desktop, click the SmartWi icon from the task-tray once (see the following illustration) or navigate to Start --> All Programs --> SmartWi Connection Utility, and then click the SmartWi Connection Utility icon.

Minimized WWAN and Bluetooth connection icon



Question: Why do I not have an option to delete WLAN profiles from the SmartWi WLAN profiles list in the Advanced Settings window?

Answer: Profiles can be managed and edited via SmartWi, but cannot be deleted. Profiles can be deleted from Windows Wireless Network Connection Properties window that displays when clicking Configure WLAN on the SmartWi WLAN Settings dialog box.

Question: I noticed that if I open a WLAN connection from SmartWi, sometimes the WLAN profile in Windows Wireless Network Connection window shows “Not connected”, but actually the connection is established.

Answer: Under the Windows Wireless Network Connection window, click on the “Refresh network list” located under “Network Tasks”. This should refresh Windows and provide an accurate overview of wireless status. If this is not fixed the problem, then close the Windows Wireless Network Connection window and re-launch it from Windows network connections.

❑ **Cingular Connection Manager (CMM)**

Question: What does it mean to “Restore” from the tool help bubble?

Answer: Clicking the “mini bar” option once, reduces the full details to a “mini bar”. Click the “Restore” option to return to full details view.

Question: Why does the “Connection Log” not sort when clicking on the columns title bar?

Answer: This feature will be available in future versions. Sorting by type, technology, date/time, duration total bytes and description should be available in future versions.

Question: Why do I see “Device not detected” in the Cingular Connection Manager details window?

Answer: This is most likely to occur while switching from WWAN to launching CCM. There is a slight timing degradation that occurs while making the switch which causes this status. Turn off the WWAN and then reconnect the WWAN to fix the problem.

Question: CCM sometimes fails to respond after resuming from Suspend mode. What could be the problem?

Answer: If the “General” tab under the Edit Profile screen for GSM is left open, this can often keep CCM from reopening upon resuming from suspend mode. Make certain the “Edit Profile” screen has been closed after making any changes. A reboot should correct the problem.

Question: When I try to connect through Cingular GPRS network, the Connect/Disconnect button is greyed out, and there is no connection available.

Answer: Click on the “Connect Using” tab in CCM, and check one of the connection types from the drop down menu. Close out of CCM and reboot.

Question: I noticed an option to create a CSD Accelerated/Non-Accelerated network profile. What is this?

Answer: CSD is Circuit Data Network. This is an older technology with lower throughput which has been phased out. We recommend that EDGE/GPRS Accelerated/NonAccelerated profile options be used instead.

❑ **SMS**

Question: What does “Load” do and why does it not prompt for options or input?

Answer: The SMS help file indicates this is useful in case of accidental deletion of messages. The “Load” feature would be a way to recover the deleted messages, however, this option provides no notification that the task completed successfully.

Question: What does “Save” do and why does it not prompt for options or input?

Answer: The help file indicates this keeps the current state of all folders, except the inbox. However, no notification is sent indicating the “Save” completed.

Question: I copied a message to the “Outbox”. Why does it not prompt to enter the recipient?

Answer: Although you can move or copy a message from one folder to another, including the “Outbox”, the message must have a recipient before the message can be sent. If the message is copied and/or moved to the “Outbox”, the message still will not have a recipient, thus leaving the message unable to be sent. This would be considered the same as the “Forward message” feature. The message would remain in the “Outbox” indefinitely until a destination or destinations are provided. For working around this, we recommend double-clicking on the message, enter a recipient, and then click “Send”.

Question: I created an SMS message, but am not connected to GRPS. How is it possible that the message can be sent?

Answer: Sending SMS does not need a GPRS data connection. As long as it detects and attaches to the Cingular network, it will be able to send SMS.

Question: What is, and what does the function button “Update Address Book with Phone Book Contents” do?

Answer: When the SIM is installed, it contains a built-in phone book, which when using this feature, allows the contents of the phone book to be incorporated into the address book.

Question: Why I am not alerted of transferring the contents of phone book to the address book?

Answer: This is a feature that is still under development. A request for further study to be conducted with this option has been applied.

Question: When I select a message from a folder, and then scroll right, the all previously existing messages appear to be gone if I scroll back to the original folder position.

Answer: Click out of the folder, and then back in to refresh the screen.

Question: I clicked on the Cingular Connection Manager minimize button and noticed that the CCM icon was not in the taskbar. Where is the minimize icon and how do I bring forth the application to the desktop?

Answer: The CCM minimizes into the Task-tray, which is represented by the “Cingular” trademark cross icon and not into the “Taskbar” (see the Cingular logo illustration below). Depending on the strength of the GPRS signal, the trademark will reflect this with a degree of graduations. In other words, if the signal strength synchronizes to 3 bars (see the Task-tray illustration below), the Cingular trademark cross will show approximately half of trademark cross in the task tray. If the signal strength is one bar, the trademark cross will appear to show a bottom portion of the trademark cross. If the signal strength is at five bars, the entire Cingular trademark cross will be fully indicated.

To bring forth the CCM to the desktop, click the Cingular trademark icon in the task-tray or right-click the Cingular trademark cross and select “Show”.

Cingular logo trademark cross



Minimized Cingular logo trademark cross



❑ **GPRS Network**

Question: Why do I see a network connection speed rate of 214.4 Kbs, but when I try to access a website that requires a minimum of 128 Kbs, I am told that I do not have the required minimum rate.

Answer: The network speed indicator provides the capacity of the wireless device is 214.4 Kbs but the actual speed depends on network throughput. To work around this, try to change the network settings to optimize the GPRS/EDGE value. This is done by accessing CCM --> Tools --> Settings... --> Advanced Networking, and then selecting “Optimized GPRS/EDGE value” option from the RWIN variables window.

Question: I am experiencing dropped connections, slowness, and other difficulties while attempting to stream video over the Cingular GPRS connection. What could be the problem?

Answer: Bandwidth over the Cingular GPRS network is somewhat restricted as compared to wired or 802.11x wireless connection types. Due to the demanding nature of streaming audio/video, it is not recommended that GPRS be used for either streaming video, or very large data downloads.

Question: I am experiencing difficulty reconnecting to my web browser when switching from the Cingular GPRS network to a WLAN connection. What could be the problem?

Answer: The network behind the WLAN’s Access Point may be set up to use a proxy server. If this is the case, proxy settings entered for Internet Explorer over WLAN may prevent IE from connecting over a GPRS link.

To allow web browsing from either connection type:

- 1 Correctly configure IE proxy settings for use over the WLAN connection. Then, open the Cingular Connection Manager and right-click the “GSM” tab. Select “profiles” and then click on the “Edit” button.
- 2 Under the “General” tab, make certain that the “Disable IE’s manual proxy settings on connect” checkbox has been enabled. Close the “Edit” screen and then close and reopen Internet Explorer. Remember to close and reopen IE each time you switch connection types in order to refresh proxy settings within Internet Explorer.

- 3 If you are still having trouble, contact your network administrator to assist in obtaining the proxy settings.

Question: I am seeing a message in Windows taskbar stating: “GPRS a Network Cable is Unplugged”. What does this mean?

Answer: Typically, this message appears if your VAIO PC is connected to the Cingular GPRS network and is allowed to go into hibernation. Upon resuming, Cingular has terminated the connection. However, Windows information has not yet been updated to recognize this change and is unaware that your GPRS connection does not require a cable. You may either re-connect to Cingular, or simply cancel out of the message.

Question: Downloads sometimes appear to be slow when connecting to the Internet via CCM. What type of download speeds should I expect?

Answer: Since CCM operates over a cellular network and is subject to the same issues/conditions as cellular connections, bandwidth may vary greatly. Common download speeds ranging from 18~64Kbps are possible with 30~36Kbps rates as typical. However, these are only estimates and your actual experience will likely vary depending upon a number of environmental factors.

Question: What is meant by “RWIN” from the CCM Tools settings advanced networking section?

Answer: The TCP Receive Window size is the amount of ‘receive’ data (in bytes) that can be buffered at one time on a connection. RWIN (TCP Receive Window) can be changed using the method of setting up the variables to optimize TCP. We recommend that this setting not be changed unless you are an expert or you have explicit instructions from your network administrator.

Note: Changing the settings for this value also has an effect when using WLAN device or any device that depends on TCP connection.

❑ **Sonic Stage/Music Store**

Question: I am unable to stream audio from some web sites such as Winamp©, Shoutcast©, etc. using Sonic Stage? Why is this the case?

Answer: Many of these web sites use proprietary players and use encoding formats that are not supported by other players. You can download one of these players if you wish, or try streaming from Sony Connect™ Music

Store using Sonic Stage.

Question: Sonic stage appears to lock up indefinitely (displays a spinning 'LOADING' logo) when attempting selecting "Radio Connect" (streaming) from Sony Connect™ site.

Answer: This is related to the issue of streaming audio over low bandwidth connections as referenced above under "GPRS Networking". Connecting to Music Store over a wired or broadband connection will usually resolve this issue.

❑ **Bluetooth® technology**

Question: Why do I not see the Bluetooth device that is connected to the computer from the BT connected device status box of the SmartWi Connection Utility?

Answer: It is most likely no Bluetooth devices have been configured for the system. Bluetooth devices are not configured automatically. To install or configure Bluetooth devices, you will need assistance in setting up the Bluetooth device on the computer. Follow steps from the help section of installing the Bluetooth device. We recommend obtaining the latest Bluetooth drivers.

Question: I can not connect to my Bluetooth keyboard (or other device). What could be the problem?

Answer: You will need to make certain that you are using the most current drivers available for your Bluetooth device. Try reinstalling under the updated driver per the manufacturers instructions.

❑ **Uninstall, Reinstall and Repair**

Question: How do I uninstall the SmartWi application and all its associated modules?

Answer: There are several components that should be uninstalled when removing the SmartWi application. The following steps should be observed while uninstalling the SmartWi application

- 1 Uninstall Wireless Switch Setting Utility
- 2 Uninstall Sony Utilities DLL
When prompted, restart the computer.
- 3 Uninstall VDC driver using the driver

- 4 Uninstall Sony Utilities 5.3.0.1130
- 5 Uninstall VAIO Wireless Utility
- 6 Uninstall Cingular Connection Manager
- 7 Uninstall SmartWi connection Utility

Question: I do not see a repair option for the SmartWi from the control panel. How do I repair the SmartWi and its associated modules?

Answer: At this time there is no “Repair” option for the SmartWi and associated modules. To work around this, we recommend to uninstall SmartWi and the associated modules and then reinstall.

Question: If I uninstall and then reinstall the Cingular Connection Manager application, will the application lose the messages and phone book?

Answer: Uninstalling the Cingular Connection Manager application will not remove your messages or the phone book. After reinstallation has been completed, you are prompted to launch CCM and view the readme.html file. Click OK to launch CCM. Load SMS and advance to messages. Observe that the messages remain. Load the phone book, and notice that the contacts remain.

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Updates and additions to software may require an additional charge. Subscriptions to online service providers may require a fee and credit card information. Financial services may require prior arrangements with participating financial institutions.

Important information for Canadian customers: Your new VAIO computer includes certain software versions or upgrades, and Internet services or offers that are available to U.S. customers only.

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Regulatory Information

Declaration of Conformity

Trade Name:	Sony
Model No.:	PCG-4F1L
Responsible Party:	Sony Electronics Inc.
Address:	16450 W. Bernardo Dr., San Diego, CA 92127, USA
Telephone: (For FCC-related matters only.)	858-942-2230

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving antenna.
- ☐ Increase the separation between the equipment and the receiver.
- ☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ☐ Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Only peripherals (computer input/output devices, terminals, printers, etc.) that comply with FCC Class B limits may be attached to this computer product. Operation with noncompliant peripherals is likely to result in interference to radio and television reception.

All cables used to connect peripherals must be shielded and grounded. Operation with cables, connected to peripherals, that are not shielded and grounded, may result in interference to radio and television reception.

FCC Part 68

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the modem card is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

This modem uses the USOC RJ-11 telephone jack.

A telephone plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. The REN is used to determine the quantity of devices which may be connected to the telephone line.

Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may

be connected to the line, as determined by the total RENs, contact the telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAEQ##TXXX. The digits represented by ## are the REN without a decimal point (e.g. 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operations of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact the Sony Customer Information Service Center at 1-888-4-SONY-PC (1-888-476-6972), or write to the Sony Customer Information Center, 12451 Gateway Blvd., Fort Myers, FL 33913, USA, or find Sony Customer Service on the Web at <http://www.sony.com/pcsupport>. If this equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment from the network until the problem is resolved.

Repair of this equipment should be made only by a Sony Service Center or Sony authorized agent. For the Sony Service Center nearest you, call 1-888-4-SONY-PC (1-888-476-6972), or visit the Sony Online Support Web site at <http://www.sony.com/pcsupport>.

Connection to Party Line Service is subject to state tariffs. Contact the state public utility commission, public service commission, or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Please use a surge arrester against electrical surges.

FCC Radio Frequency Exposure (United States)* and SAR

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects.

Governments around the world have adopted comprehensive international safety guidelines, developed by scientific organizations, e.g. ICNIRP (International Commission on Non-Ionizing Radiations Protection) and IEEE (The Institute of Electrical and Electronics Engineering Inc.), through periodic and thorough evaluation of scientific studies. These guidelines establish permitted levels of radio wave exposure of the general population. The levels include a safety margin designed to assure the safety of all persons, regardless of age and health, and to account for any variations in measurements.

Specific Absorption Rate (SAR) is the unit of measurement for the amount of radio frequency energy absorbed by the body when using a transceiver. The SAR value is determined at the highest certified power level in laboratory conditions, but the actual SAR level of the transceiver while operating can be well below this value. This is because the transceiver is designed to use the minimum power required to reach the network.

Variations in SAR below the radio frequency exposure guidelines do not mean that there are variations in safety. While there may be differences in SAR levels among mobile phones, VAIO PC is designed to meet radio frequency exposure guidelines.

Before VAIO PC is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by government-adopted requirement for safe exposure. The test is performed in positions and locations as required by the FCC for each model. For body worn operations, this PC has been tested and meets FCC FR exposure guidelines for fixed and mobile use as normal PC use.

SONY has not measured and makes no representation about, the body worn SAR levels when any changes to the original product.

(For PCG-4F1L models with wireless LAN and wireless WAN) The personal computer (PCG-4F1L) has been tested and found to comply with the Federal Communications Commission (FCC) guidelines on radio frequency energy (RF) exposures. The maximum SAR levels tested for the personal computer (PCG-4F1L) has been shown to be 0.133 W/kg (16.625%) when 850 band and BT are transmitting simultaneously.

* For models with wireless LAN functionalities.

The PCG-4F1L notebook computer contains a Wireless LAN or Wireless WAN transmitter which is co-located and operating simultaneously with a 0.018 W/kg Bluetooth module.

This device and its antenna(s) must not be co-located or operating with any other antenna or transmitter except Grant condition. Users are not permitted to modify this transmitter device. Any unauthorized change made to this device could void your authority to operate this device.

(Wireless WAN and Wireless LAN transmitter do not operate simultaneously.)

Personal Medical Devices

When Wireless WAN (EDGE module) power is on the transmitting, it may affect the operation of cardiac pacemakers and other implanted equipment. If a minimum distance of 15 cm (6 inches) is kept between the PC and the pacemaker, the risk of interference is limited. If you have any reason to suspect that interference is taking place, immediately turn off WAN feature. Contact your cardiologist for more information.

For other medical devices, please consult the manufacture of the device.

Emergency Calls

EDGE module that is embedded to SONY VAIO do not support voice calls, hence their use for essential communication is not possible.

Inserting and removing the SIM card – precautions against electrostatic discharges (ESD)

Do not touch the SIM card connectors. As a precaution, always make sure that VAIO PC is in your hand before you insert or remove the SIM card.

IC RSS-210 (Canada)

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Sony is not responsible for any interference that you may experience or that may be caused when operating this device.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilisé à l'intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.

L'expression "IC:" avant le numéro d'homologation/enregistrement signifie seulement que les spécifications techniques d'Industrie Canada ont été respectées.

Sony n'est pas responsable des interférences que vous risquez de rencontrer ou qui risquent d'être provoquées lors du fonctionnement de cet appareil.

IC Exposure of Humans to RF Fields

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website: www.hc-sc.gc.ca/rpb.

L'installateur du présent matériel radio doit s'assurer que l'antenne est située ou pointée de manière à ce que cette dernière n'émette pas de champs radioélectriques supérieurs aux limites spécifiées par Santé Canada pour le grand public; consulter le Code de sécurité 6, disponible sur le site Web de Santé Canada, à l'adresse suivante: www.hc-sc.gc.ca/rpb.

Telephone Consumer Protection Act of 1991 (United States)

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including FAX machines, to send any message unless such message clearly contains, in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business, other entity, or individual sending the message, and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long distance transmission charges.)

In order to program this information into your facsimile machine, see your fax software documentation.

Telephone Consumer Guidelines (Canada)

Please refer to your telephone directory under 'Privacy Issues' and/or 'Terms of Service.' For more detailed information, please contact:

CRTC

**Terrasses de la Chaudière
Tour centrale 1 promenade du Portage
5 étage Hull PQ K1A 0N2.**

Industry Canada Notice

The Ringer Equivalence Number (REN) for this terminal equipment is 0.2. The REN assigned to each terminal equipment provides an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed 5.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

Avis de L'Industrie Canada

REMARQUE: Cet équipement est conforme aux Spécifications Techniques des Équipements Terminaux d'Industrie Canada en vigueur.

Le Nombre Équivalent de Sonneries (REN) de cet équipement terminal est 0,2. Le REN attribué à chaque équipement terminal indique le nombre maximum de terminaux que l'on peut connecter à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

For customer support information, go to:
<http://www.sony.com/pcsupport>

VAIO Homepage
<http://www.vaio.net>

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