

Supplementary Instructions for Wireless LAN

This manual contains supplementary instructions regarding the use of the computer. It explains the cases where the operation of the computer differs from that in the Operating Instructions.

Your computer is equipped with Wireless LAN enabling you to communicate using radio frequencies.

FCC Radio Frequency Interference Requirements

This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.

FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and /or damage this product.

Specifications

Data transfer rates	IEEE802.11a: 54/48/36/24/18/12/9/6Mbps (automatically switched)
	IEEE802.11g: 54/48/36/24/18/12/9/6Mbps (automatically switched)
	IEEE802.11b: 11/5.5/2/1 Mbps
Standards supported	IEEE802.11a/IEEE802.11g/IEEE802.11b
Transmission method	OFDM system, DSSS system
Wireless channels used	IEEE802.11a: Channels 36 to 64, 149 to 165
	IEEE802.11b/IEEE802.11g: Channels 1 to 11
RF frequency band	IEEE802.11a: 5.18~5.32GHz, 5.745~5.825GHz
	IEEE802.11g/IEEE802.11b: 2412~2462MHz

If you use a wireless LAN, you can use a network without cable connections.

CAUTION

- Communication is performed through the wireless LAN antenna. Do not block the antenna area with your hand or otherwise interfere with the passage of the radio signals.

NOTE

- The communication speeds and distances differ depending on the devices that support the wireless LAN, the installation environment and other ambient conditions.
- One characteristic of radio waves is that their transmission rate tends to drop as the communication distance increases. It is recommended that the devices supporting the wireless LAN be used in close vicinity to each other.
- The rate may drop while a microwave oven is being used.

Windows XP

- Do not use the Fast User Switching function.

Precautions

- Do not use wireless LAN on airplanes, in hospitals, or in other locations where wireless LAN signals may affect the operation of devices in the vicinity.
- If you intend to use the computer in the environments described above, turn the wireless LAN off using the following method:
 - 1 Double-click  or  on the taskbar.
 - 2 Select your wireless LAN adaptor and select [General].
 - 3 Select [Off] for [Switch radio].
 - 4 Select [OK].The icon will turn to .

- To prevent theft of data or unauthorized access to the hard disk via a wireless LAN.
 - If you plan to use wireless LAN functions, we recommend that you do so only after making the appropriate security settings, such as for data encryption.
- We recommend turning the wireless LAN off when it is not used or out of range.
 - If you leave the wireless LAN on, the battery's operating time is shortened.

The Settings

To use the wireless LAN, set the profile using the following procedure.
The settings will vary for different network environments depending on the network system being used. For more details, ask your system administrator or the person in charge of the network.

CAUTION

- Set profiles for each user using the following procedure.

NOTE

Windows XP

- If [Windows XP is currently configured to manage the Intel(R) PRO/Wireless LAN adaptor.] is displayed, select [Yes].

Windows 2000

- After setting the profile, delete the profile displayed at the time of purchase (profile name: Default).

- 1 Double-click  on the taskbar.
- 2 Select your wireless LAN adapter and select [General].
- 3 Select [On] for [Switch radio].

- 4 Select [Networks] and select [Add].
- 5 Enter the profile name and network name (SSID), and then make other necessary changes, then select [Next].
- 6 Make necessary changes and select [Finish].
- 7 Select [OK].

NOTE

- About WLAN Security Client
WLAN Security Client is an implementation of the client side of the IEEE 802.1X-Port Based Network Access Control protocol.
 - Since the WLAN Security Client has already started when  is displayed on the taskbar, do not double-start it. If  is not displayed, start up the WLAN Security Client in the following menu.
Windows XP
Select [Start] - [All Programs] - [Intel] - [WLAN Security Client Manager].
Windows 2000
Select [Start] - [Programs] - [Intel] - [WLAN Security Client Manager].
 - For more information about how to use the WLAN Security Client, refer to [Help] in the menu bar or;
Windows XP
Select [Getting Started Guide] or [User's Guide] in [Start] - [All Programs] - [Intel].
Windows 2000
Select [Getting Started Guide] or [User's Guide] in [Start] - [Programs] - [Intel].

Check the Communication Status

Select  or  on the taskbar to check the communication status.

For more information about how to use the Intel PROSet, refer to [Help] in the menu bar.

If the function fails to operate correctly

Read the operating instructions for the access point carefully and check the settings.

■ The access point fails to be displayed in [Available Networks]

- Select the profile you are using, and select [Advanced] in [Networks]. [Connect to ad hoc networks only] may have been selected in [Connection preference]. In this case, select [Connect to infrastructure and ad hoc networks].
- This computer uses channels 1 through 11^{*1}. Check the channel being used.

^{*1} In the case of wireless communications, the frequency band being used can be divided into segments, so that different communications can be conducted on each band segment. A "Channel" refers to the individual frequency bandwidth divisions.

■ The access point cannot be accessed

- The network key setting may not conform to the access point. Check the network key setting of the access point and, if necessary, set it again correctly.
- Depending on the access point and settings, access may not be accepted unless the computer's MAC address is registered beforehand. In this case, check the computer's MAC address using the following procedure and register it according to the operating instructions of the access point.

1 Display [Command Prompt].

Windows XP

Select [Start] - [All Programs] - [Accessories] - [Command Prompt].

Windows 2000

Select [Start] - [Programs] - [Accessories] - [Command Prompt].

2 Input [ipconfig /all], and press **Enter**.

3 Make a note of the 12-digit string of alphanumerics displayed on "Physical Address" line on Wireless LAN side. Then input [exit], and press **Enter**.

■ The IP address of the access point is wrong

- Following the operating instructions of the access point, set the IP address of the access point again correctly.