

TMNet WinConfig Ver.3

User's Guide

M00001901
Rev. B

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1. Features

This utility helps you configure various network parameters for Ethernet devices mounted on the TM printers. It has combined the features and devices supported by TMNet WinConfig Ver.1.00 and Ver.2.00.

2. Supported Operating Systems

Microsoft Windows Server 2008 R2 (64bit)
Microsoft Windows Server 2008 SP2 (32bit / 64bit)
Microsoft Windows Server 2003 R2 SP2 (32bit / 64bit)
Microsoft Windows 7 (32bit / 64bit)
Microsoft Windows Vista SP2 (32bit / 64bit)
Microsoft Windows XP Professional SP3 (32bit / 64bit)
Microsoft Windows 2000 Professional SP4

3. Supported Devices

This utility works with TM printers that can mount UB-E01, UB-E02, UB-E02A, UB-R02, UB-R02A, UB-R03, UB-R03A and with the TM-C610, TM-C3400, TM-P60 printer.

4. Configuring the Network Interface

Using TMNet WinConfig, follow the steps below to configure your network interface.

- 1. In the Tree view on the left side of the window, select the interface that is connected to the device.**
- 2. In the List view on the right side of the window, select the network interface to configure.**

Note:

- TMNet WinConfig does not list the model name of your interface:
The model name of your interface may not be listed if the IP address of the network interface has not been changed from the factory default (192.168.192.168). Use the MAC address of the device to know which one is yours. If you are using a TM printer, you can find out the MAC address of a device via the Network Status Sheet. The factory default IP address cannot be used anywhere on the network due to the product specifications. Please change it to an appropriate number as required by your environment.
- You have more than one device of the same model:
If you have more than one device of the same model connected to your computer, their MAC addresses can help you tell them apart. If you are using a TM printer, you can find the MAC address of a device via the Network Status Sheet.
- You want to see a device listed which is located outside your local network:
A printer located outside your local network can be listed by selecting **Tool, Search Options**, and then **IP** and making appropriate changes there. See 6.2.3 Search Options for more details.

- You cannot find your device on the list:

If your device is not listed in the **List** view, make sure the device is turned on and that it is located within the same segment as your computer.

3. Click the Configuration button.

Or double-click the network interface device you want to configure.

4. In the Network Interface Card Properties window that appears, select the tab for the protocol that you want to configure.

Configure the network interface settings to suit your operational environment. Refer to the following sections for information on each protocol setting.

Location	See 6.3 Printer Menu
Administrator Name, Return to Default	See 6.4 Print Server Menu
TCP/IP	See 6.5 TCP/IP Menu
Wireless Network	See 6.6 Wireless Menu

5. When you are done with all the settings, click OK.

6. In the window that appears, click OK again.

7. The Password window appears.

Initially, no password is set.

- If you do not want to set your password yet, just click **OK** here without entering anything. Your settings will be sent to the network interface.
- If you do want to set your password, refer to 5. Setting the Password.

Note:

Do not turn off the device or send other data to it until you see the message “*Configuration successfully completed*” as TMNet WinConfig is still communicating with the device.

8. It takes a maximum of three minutes for all the settings to become effective.

Do not turn off the device until that happens. After about three minutes have passed, choose **Refresh** from the **View** menu and confirm the current settings.

This completes the configuration of the network interface.

Note:

You are advised to store the settings you have made in a safe place.

5. About Passwords

A password is required to configure the network interface. Follow the steps below to set a password or change the current password.

1. **Select the network interface to configure on the List view, and then click Send in the Network Interface Card Properties dialog box.**
2. **The Password dialog box appears.**



Item	Explanation
Password	Enter the password for the selected device. Passwords are case sensitive.
Cancel button	The current processing is canceled.
Change button	The Administrator Password dialog box appears. Specify the administrator password for the selected device.

3. **Click Change or Batch Password Change in the Password dialog box, and then specify the password for the selected device.**

[Old Password]

Leave it blank if you are setting a password for the first time.

[New Password]

Enter the new password (up to 32 characters). Passwords are case sensitive.

[New Password (again)]

Enter the password again to confirm.

Note:

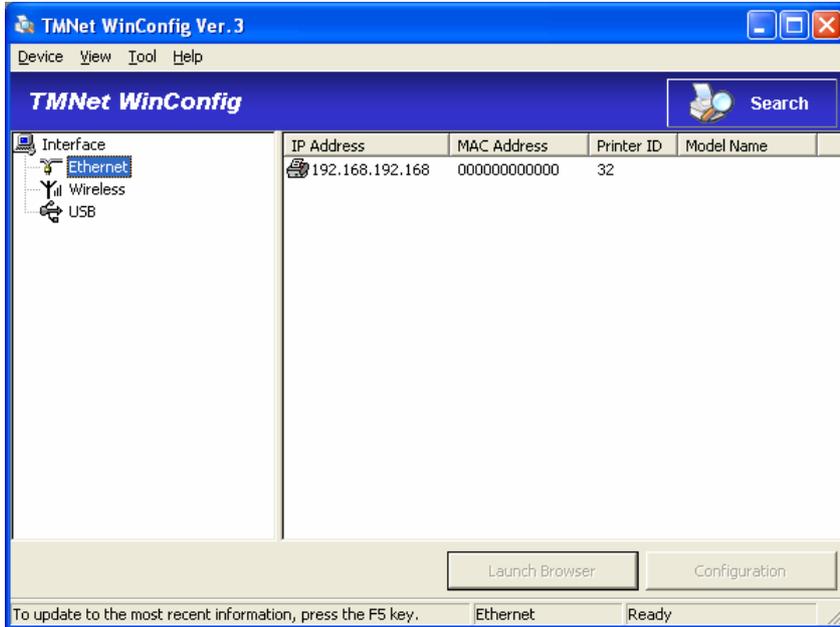
- Since the new password becomes effective after the data is sent to the network interface, enter the old password immediately after changing the password.
- If you forget your password, you need to initialize the network interface.

6. Setup Windows

This section explains in full detail the workings of each setup window.

6.1 Opening screen

You will see the TMNet WinConfig opening window when you launch TMNet WinConfig.



Item	Explanation
Tree view	Clicking Ethernet , Wireless , or USB (*1) brings up information on the network interfaces connected to the selected network or port.
Items	The list will be sorted in ascending or descending order of the item you have chosen, such as IP Address , MAC Address , Printer ID , or Model Name . The display width for each item can be controlled by dragging the right edge of each item header.
List view	The information on the network devices connected to the interface you have selected in the Tree view is displayed here. To start configuration, double-click the network interface you want to configure, or select the network interface and click the Configuration button.
Search button	Updates the List view with the latest information by rescanning the interfaces.
Launch Browser button	When the IP address is set to something other than the factory default, you can launch TMNet WebConfig by selecting a network interface and clicking this button. Normally you do not need to use this button.
Configuration button	Click this button to start configuring a network interface. It opens the Network Interface Card Properties window.

(*1) Selection of **COM** is also possible by customization.

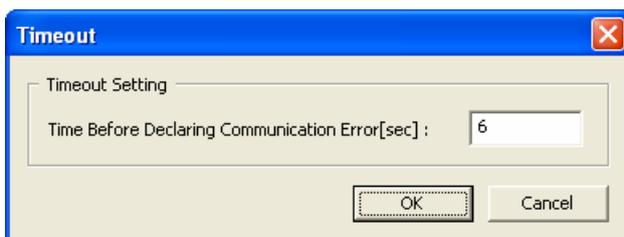
6. 2 Menu bar

TMNet WinConfig provides the following menus and sub-menus.

Item	Explanation	
Device	Configuration	Configures the network interface you have selected.
	Launch Browser	When the IP address is set to something other than the factory default, you can launch TMNet WebConfig with this. Normally you do not need to use this.
	Exit	Exits TMNet WinConfig.
View	Refresh	Updates the List view with the latest information by rescanning the interfaces.
Tool	Timeout	Opens the Timeout window where you can set the timeout value. See 6.2.1 Timeout for more information.
	Search Paths	Opens the Search Paths window where you can set the paths for searches. See 6.2.2 Search Paths for more information.
	Search Options	Opens the Search Options window for TCP/IP and COM where you can set various search options. See 6.2.3 Search Options for more information.
Help	About TMNet WinConfig	Displays the copyright and version information on TMNet WinConfig.

6. 2. 1 Timeout

This window can be opened by selecting **Tool** and then **Timeout**.



In this window, you can set the timeout time for communicating with a network interface. A communication error occurs if this time is exceeded.

The following table explains in detail how this setup window works.

Item	Explanation
Time Before Declaring Communication Error	Specify (between 6 and 120 seconds) the timeout time at which a communication error is triggered. The default value is 6 seconds. Normally you need not change this value. Specify a larger value for this if you see a communication error after you have changed the search options so that other network segments are to be searched as well. A larger timeout value means more time required to search for network interfaces.
OK button	Click the OK button to save your settings.
Cancel button	Click the Cancel button to discard any changes.

6. 2. 2 Search Paths

This window can be opened by selecting **Tool** and then **Search Paths**.



In this window, you can select the protocols that are used for searching for network interfaces.

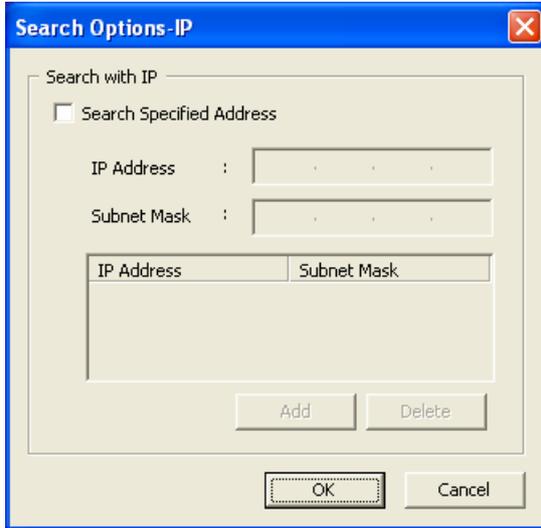
The following table explains in detail how this setup window works.

Item	Explanation
Search Setting	Select the preferred protocols used to search for network interfaces. TMNet WinConfig will use these protocols when it searches for network interfaces.
OK button	Click the OK button to save new settings.
Cancel button	Click the Cancel button to discard any changes.

6. 2. 3 Search Options

6. 2. 3. 1 Search Options-IP

This window can be opened by selecting **Tool, Search Options**, and then **IP**.



TMNet WinConfig can search for TCP/IP-managed network interfaces that are located outside your local network. It will scan the network segment matched by the network address specified here for any network interfaces that are used.

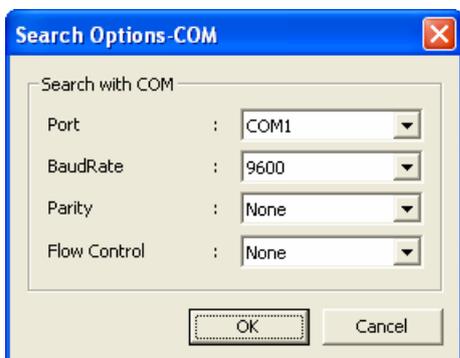
The settings you make here will take effect when you choose **Refresh** from the **View** menu or restart TMNet WinConfig.

The following table explains in detail how this setup window works.

Item	Explanation
Search Specified Address	Select this check box if you want TMNet WinConfig to search for network interfaces located outside your local network (beyond the router). Do not select it unless you intend to configure network interfaces in other segments. It would cause searches to take more time.
IP Address	<p>Enter the network address for the segment you want to search. Use an address with all bits in the host ID portion set to 0.</p> <p>If, for example, the network segment you are interested in has the subnet mask 255.255.255.0 (Class C) and the network interface has the IP address 192.168.0.5, then enter 192.168.0.0 here.</p> <p>If you try to specify an address whose host ID portion does not have all bits set to 0, a message that looks like the following appears:</p> <p><i>"The network address 192.168.0.5 that you entered will be added to the list as 192.168.0.0. Add this address?"</i></p> <p>Click OK, and the corrected address (with all bits in the host ID portion set to 0) will be added to the list.</p> <p>If the corrected address is already on the list, a message like the following is displayed and the address will not be added:</p> <p><i>"The network address 192.168.0.5 that you entered will be added to the list as 192.168.0.0. This address is already registered."</i></p>
Subnet Mask	Enter here the subnet mask for the segment you want to search.
List box	Clicking the Add button will add to the list the network address and subnet mask you have entered.
Add button	Adds the network address and subnet mask to the list. You can add up to 20 pairs of addresses.
Delete button	Removes the selected address pair from the list.
OK button	Click the OK button to save new settings.
Cancel button	Click the Cancel button to discard any changes.

6. 2. 3. 2 Search Options-COM

This window can be opened by selecting **Tool, Search Options**, and then **COM**.



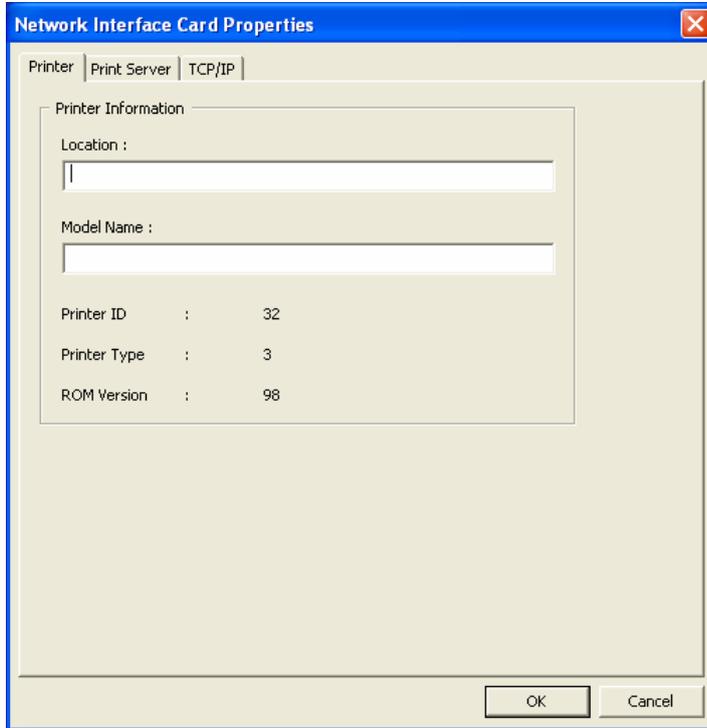
TMNet WinConfig can search for network interfaces managed by the COM port. Set up a COM port here, and the system will search for network interfaces connected to your computer via that COM port. The settings you make here will take effect when you choose **Refresh** from the **View** menu or restart TMNet WinConfig.

The following table explains in detail how this setup window works.

Item	Explanation
Port	Select a COM port for searching. Only the ports that are available are listed here.
BaudRate	Choose a communication speed for the selected COM port.
Parity	Choose a parity setting from None , Odd , or Even .
Flow Control	Choose a flow control method from None , RTS/CTS , or DTR/DSR
OK button	Click the OK button to save new settings.
Cancel button	Click the Cancel button to discard any changes.

6. 3 Printer menu

This window can be opened by selecting **Device, Configuration**, and then the **Printer** tab.

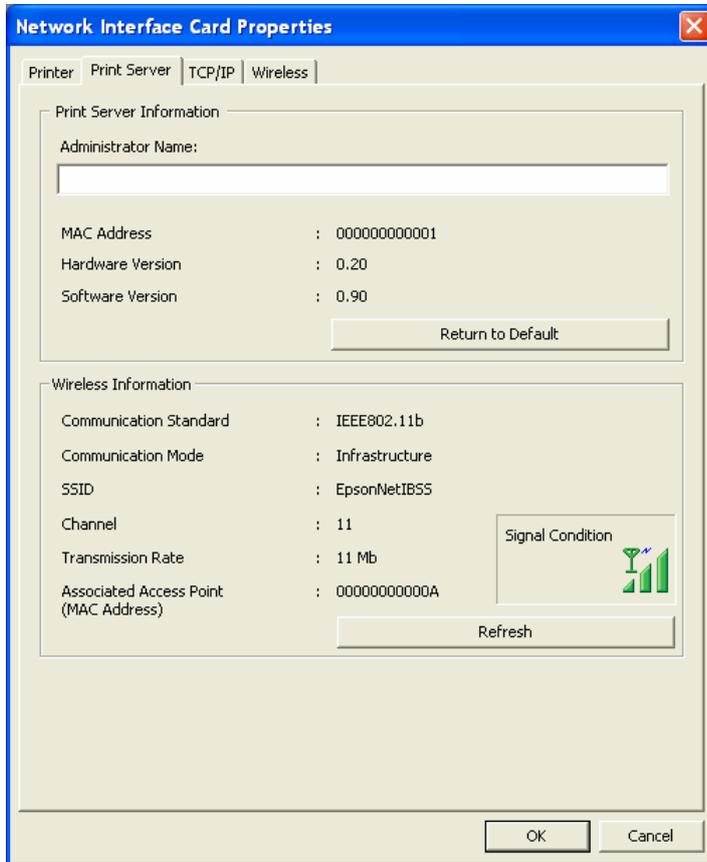


The **Printer** menu displays information on printers that have network interfaces mounted on them. The following table explains in detail how this setup window works.

Item	Explanation
Location	Enter the physical location of the printer (with 0 to 255 ASCII characters). Character numbers that can be used varies depending on the network system you use.
Model Name	The model name of the printer on which a network interface is installed is displayed here. Grayed out if the network interface is not supported by the system. You can use 0 to 128 ASCII characters. Character numbers that can be used varies depending on the network system you use.
Printer ID	The model ID of the printer is displayed, in decimal. This item is not displayed if the network interface is not supported by the system.
Printer Type	The type ID of the printer is displayed, in decimal. This item is not displayed if the network interface is not supported by the system.
ROM Version	The ROM version ID of the printer is displayed, in decimal. This item is not displayed if the network interface is not supported by the system.
OK button	Click the OK button to save new settings. The password is required.
Cancel button	Click the Cancel button to discard any changes.

6. 4 Print Server menu

This menu can be opened by selecting **Device, Configuration**, and then the **Print Server** tab.



The **Print Server** menu displays information on the network interface card mounted on the print server.

Wireless Information appears only for a wireless network interface card.

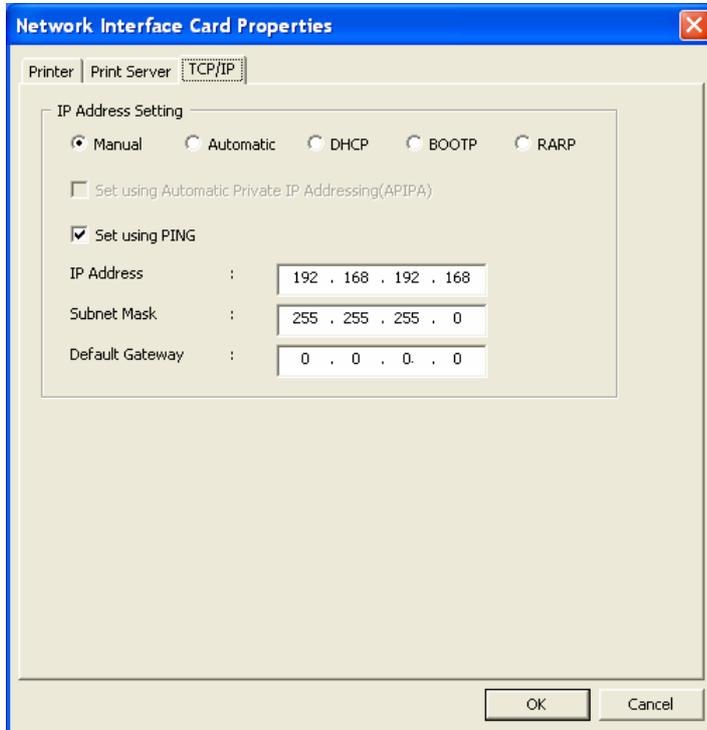
The following table explains in detail how this menu works.

Item	Explanation
Administrator Name	Enter the administrator name of the printer. You can use 0 to 255 ASCII characters. Character numbers that can be used varies depending on the network system you use It is grayed out and does not accept input if the network interface is not supported by the system.
MAC Address	The MAC address of the network interface is displayed.
Hardware Version	The hardware version of the network interface is displayed.
Software Version	The software version of the network interface is displayed.
Return to Default button	Reverts to the factory default settings. The password is required.

Item	Explanation
Communication Mode	The communication mode of the wireless network is displayed.
SSID	The Service Set Identifier (SSID) of the access point or wireless LAN is displayed.
Channel	The channel used for wireless communication is displayed.
Transmission Rate	The transmission speed for the wireless network is displayed.
Associated Access Point (MAC Address)	The MAC address of the access point used for wireless LAN in the Infrastructure mode is displayed. If the Ad Hoc mode is used, this item does not appear.
Signal Condition	The condition of the radio waves is displayed. Three antennas: Excellent Two antennas: Good One antennas: Poor None: No connection Question mark: Unknown.
Refresh button	Make an inquiry to the network I/F and updates the content with the latest wireless information.
OK button	Click the OK button to save new settings. The password is required.
Cancel button	Click the Cancel button to discard any changes.

6. 5 TCP/IP menu

This menu can be opened by selecting **Device, Configuration**, and then the **TCP/IP** tab.



The **TCP/IP** menu helps you configure the TCP/IP settings on the network interface.

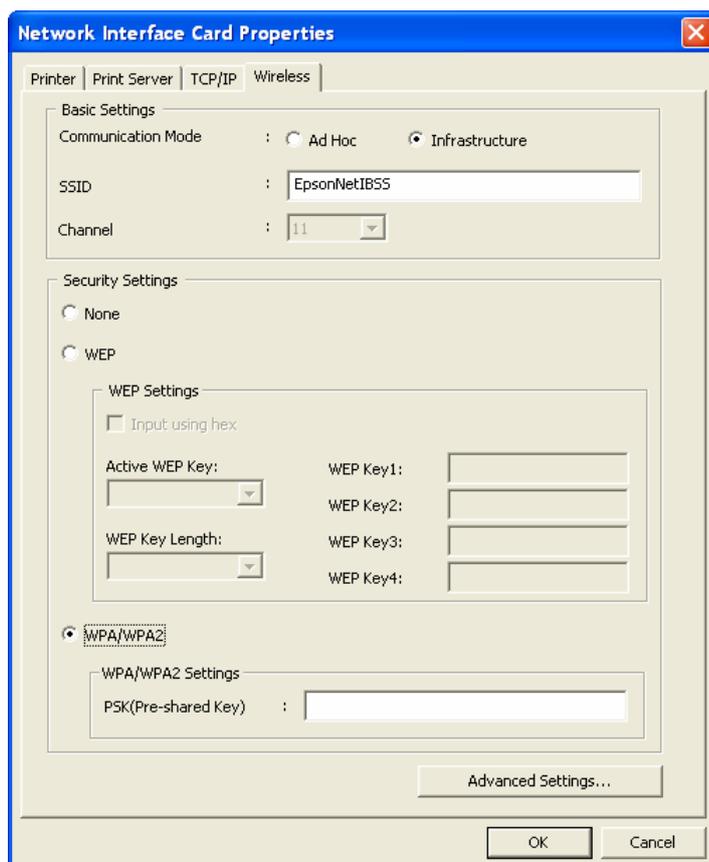
The following table explains in detail how this menu works.

Item	Explanation
Manual, Automatic, DHCP, BOOTP, RARP	Select the method for assigning an IP address. The choices here vary depending on the network interface. If you select Automatic , a different IP address is assigned to the network interface every time you turn on the device. If you do not have a DHCP server with DNS support, select Manual here and specify an IP address directly. If you select Automatic when DHCP , BOOTP , and RARP are all grayed out, TMNet WinConfig will obtain an IP address from the server by automatically determining the server type.
Set using Automatic Private IP Addressing (APIPA)	If this check box is selected, a private IP address is automatically assigned to the network interface by APIPA (Automatic Private IP Addressing) when there is no DHCP server on the network or there is no response from the DHCP server. The private IP address will be in the range of 169.254.0.1 to 169.254.255.254. This check box is grayed out if the IP Address Setting is set with Manual or APIPA is not supported.
Set using PING	Select this check box when setting an IP address using the ARP/PING command.

Item	Explanation
IP Address	Enter an IP address for the network interface. Make sure that the IP address you choose is unique and does not conflict with the address of any other device on the network. Due to the product specifications, the factory default IP address (192.168.192.168) assigned to the device cannot be used on the network. Make sure that you assign a valid IP address to the network interface.
Subnet Mask	Enter the subnet mask of the network.
Default Gateway	Enter the IP address of your gateway, whether it is a server or a router.
OK button	Click the OK button to save new settings. The password is required.
Cancel button	Click the Cancel button to discard any changes.

6. 6 Wireless menu

This menu can be opened by selecting **Device, Configuration**, and then the **Wireless** tab.

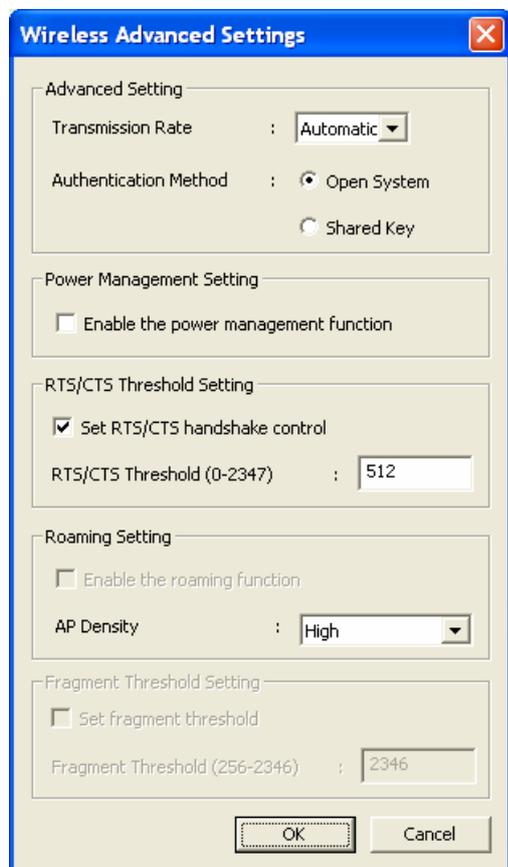


The **Wireless** menu helps you configure the wireless settings on the network interface. This setup menu only appears for a wireless network interface.

Item	Explanation
Communication Mode	Select the wireless LAN mode.
SSID	Enter the SSID for the wireless LAN group to connect to. It is initially set to EpsonNetIBSS, but make sure you change this value. It only accepts ASCII, up to 32 characters. You can enter either name of ESS ID and SSID here. Enter the ESS ID of the access point if the wireless LAN group operates in the Infrastructure mode.
Channel	Only available when the wireless LAN operates in the Ad Hoc mode. Specify the same channel as used on the wireless LAN.
WEP	Select this check box when using WEP Keys for encryption.
Input using hex	Select this check box when entering WEP Keys in hexadecimal. The default is to enter them in ASCII.
Active WEP Key	When more than one WEP Keys are specified, choose one as the active key.
WEP Key Length	Select the length of a WEP Key. This indicates the strength of the encryption.
WEP Key (1 to 4)	Enter WEP Keys The exact format for a WEP Key varies according to the values in the fields Input using hex and WEP Key Length . For a 64-bit (40-bit) WEP Key, use 10 digits in hexadecimal or 5 characters in ASCII. For a 128-bit (104-bit) WEP Key, use 26 digits in hexadecimal or 13 characters in ASCII. The WEP Keys you enter here will all become hidden from view after the network interface is configured. Do not forget your WEP Keys.
WPA/WPA2	Select this check box when using WPA/WPA2 with a PSK (Pre-shared Key) for encryption. Grayed out when your network interface does not support WPA/WPA2.
PSK (Pre-shared Key)	Enter the PSK (Pre-shared Key) password (with 8 to 63 ASCII characters) to be used for WPA/WPA2 authentication.
Advanced Settings... button	Click this button if you want to proceed to make advanced settings on the wireless LAN. Normally you do not need to change them. Do it only if you need to improve wireless communication performance. See 6.6.1 Wireless Advanced Settings dialog box for more information.
OK button	Click the OK button to save new settings. The password is required.
Cancel button	Click the Cancel button to discard any changes.

6. 6. 1 Wireless Advanced Settings dialog box

This dialog box can be opened by selecting **Tools** and then **Timeout settings**.



The **Wireless Advanced Settings** menu helps you set the detail of wireless LAN setting for the network I/F. Items in the dialog box may be grayed out if they are not supported by your network interface.

Item	Explanation
Transmission Rate	Normally use Auto to communicate with the best speed for your environment. The system will try a slower rate if conditions deteriorate, affecting the communication at the current rate. Select a fixed transmission speed in some reasons: 1 Mbps , 2 Mbps , 5.5 Mbps , or 11 Mbps .
Authentication Method	Shared Key or Open System . Initially, Shared Key is selected if WEP is enabled in the Wireless menu (see 6.6), and Open System if not. You can change this to reflect your wireless network environment.
Enable the power management function	Select this check box to enable the power management to conserve electricity. If enabled, the batteries will last longer.

Item	Explanation
RTS/CTS Threshold (0-2347)	Specify the threshold (number of bytes) between 0 and 2347. Data with its frame size larger than this value performs the RTS/CTS handshake. If you are not suffering from performance loss caused by some hidden terminals, you can specify a larger value for this to improve overall throughput. The initial value may vary depending on the kind of network interface used. The value of 0 for this means the RTS/CTS handshake control is always on. Find the best threshold value for your environment by monitoring your wireless LAN performance.
Enable the roaming function	Select this check box to enable roaming among multiple access points.
AP Density	Select Medium or High if your node switches access points too frequently due to the high density of access points in your area. This reduces noise or interference and minimizes the frequency with which roaming takes place.
Set fragment threshold	If a data frame fails to reach its destination, it needs to be re-transmitted. Select this check box if you want the data to be broken into smaller chunks when they are transmitted. This improves performance when there is high traffic on the wireless LAN. You specify the packet size in the Fragment Threshold field. If you clear this check box, a data frame is transmitted as a whole.
Fragment Threshold (256-2346)	Specify the threshold value (in bytes, between 256 and 2346) for fragmentation to occur. Data is transmitted in pieces so that its size does not exceed this value. It defaults to 2346 bytes.
OK button	Click the OK button to save new settings.
Cancel button	Click the Cancel button to discard any changes.

7. Troubleshooting

Cannot configure the network interface or cannot print from the network.

Step 1

First, check to see if you can print out the Network Status Sheet. If you can print out the sheet, make sure that there are no errors in the settings that are printed on the sheet.

Step 2

Verify that the hub and the cables are all working properly. Check to see if the lamp on the hub for the port the device is connected to is either lit or flashing on and off. If it is dead, confirm the following:

- Try connecting the device to another port to see if the lamp lights up.
- Try connecting the device to another hub.
- Try different LAN cables.

If all these failed, there is a possibility that your network interface is damaged. Consult the operation manual for the device.

Step 3

If your network interface is running on TCP/IP, check to see if it has a valid IP address assigned. The default IP address 192.168.192.168 initially set to the device cannot be used on the network due to the product specifications. Choose a different IP address as your operational environment requires.

Step 4

Make sure that you have not selected **Block** in the Windows Security Warning window or in a similar warning window displayed by a commercial security application. If you have, TMNet WinConfig cannot communicate with other devices on the network. To enable communication, register this software as an exception in the security settings for the Windows Firewall or other security applications that you are using.

Some commercial applications, even after you have followed the steps above, do not allow this software to send data on the network. If this is the case, try turning off the blocking altogether in those applications' settings or try quitting the applications before using TMNet WinConfig.

Note that the action written above is accompanied by risk. Make sure that turn on the blocking or restart the security application after setting network interface.

In the opening window of TMNet WinConfig, the Model Name field is empty and the IP Address says NONE.

Step 1

This occurs if you have not changed the IP address of your network interface. You can still configure your network interface by looking at its MAC address. Find out the MAC address on the Network Status Sheet if you have a printer connected to the network. The opening window will display the correct IP address after you complete the configuration.

Step 2

Update the window by choosing **Refresh** from the **View** menu.

See 6.2 Menu bar for more details.

Step 3

Select **Tool** and then **Timeout**, and increase the timeout time in the **Timeout** setup window that appears.

Note that doing so may slow down TMNet WinConfig because it would need more time for searching. See 6.2.1 Timeout for more details.

The IP address changes to a different number when you haven't touched it.

Step 1

In the **TCP/IP** setup menu, select **Manual** for **IP Address Setting** and enter an IP address directly.

Step 2

If your DHCP server does not support dynamic DNS but you need to select **Automatic** in the **TCP/IP setup menu**, decide in what order you turn on the network devices or leave them on at all time.

It takes a few minutes to start TMNet WinConfig.

If you have Novell client services or a Microsoft NetWare client installed on your computer, it may affect the performance of TMNet WinConfig because they use IPX for dialup network. Stop using them if you do not need them.

The wireless network interface server does not appear in the List view.

Step 1

Make sure that the wireless network interface is switched on.

Step 2

Make sure that the wireless network interface is properly connected to the device.

Step 3

Make sure that the network settings on the network interface, such as the WEP Key, SSID, and the authentication method, all reflect the settings on the wireless LAN.

Step 4

Check your network environment to see if there isn't any interference from other wireless devices, if stations aren't placed too wide apart, or if there aren't any obstacles in the area interfering with transmissions.

The WEP Keys and the WPA/WPA you have entered are not displayed on the screen.

For security reasons, these keys become hidden from view once you enter them. Do not forget what they are.

Bad reception of radio signals in the Ad Hoc mode.

Try using a different channel (by at least 5) than the one used on the nearest wireless LAN group.

The wireless communication speed is very slow.

Step 1

Try increasing the **RTS/CTS Threshold** value so that there is less interference caused by some hidden terminals. Refer to 6.6.1 Wireless Advanced Settings dialog box for more details.

Step 2

For a poor wireless environment, specify a lower value for the **Fragment Threshold** (6.6.1).

Step 3

Increase the **Transmission Rate** as required. Note that the higher the rate, the shorter the range will be.

The wireless network interface does not roam from one access point to another.

Try changing the **AP Density** value in the **Wireless Advanced Settings** dialog box.

Installation of TMNet WinConfig Ver.3 failed with the error message “Old version is detected. Please uninstall the old TMNet WinConfig, and install TMNet WinConfig Ver.3.”

If you already have Ver.1.00 or Ver.2.00 of TMNet WinConfig installed on your computer, you cannot install TMNet WinConfig Ver.3 on the same computer. Uninstall the older version before installing this version.

“Some functions of this program are blocked by the Windows Firewall. To enable it, you need to register TMNet WinConfig to exceptions for the Windows Firewall, and restart TMNet WinConfig. See the TMNet WinConfig User’s Guide for how to register.” is displayed, and the printer is not searched.

Follow the steps below to register this program to exception or confirm if it is registered.

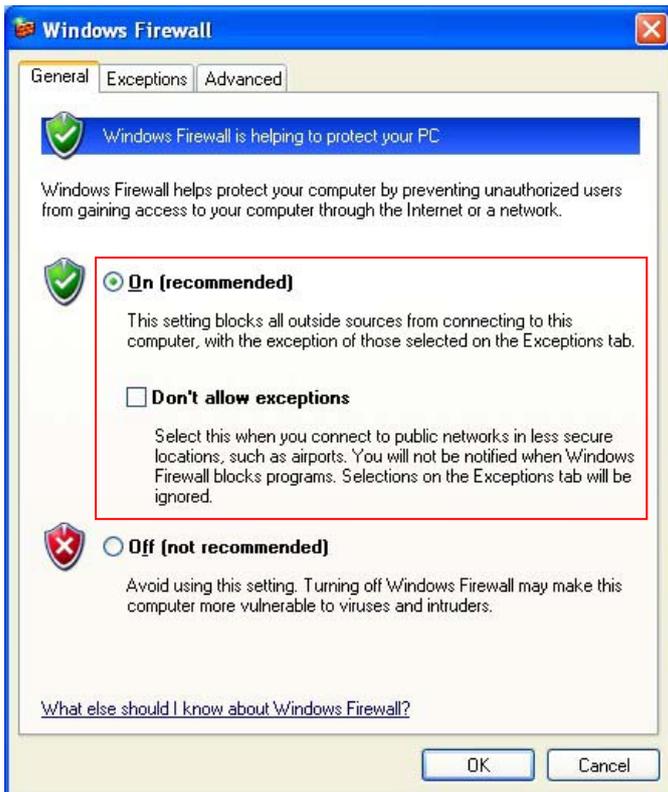
1. Display the **Windows Firewall** screen.

For Windows XP: [Control Panel] – [Windows Firewall]

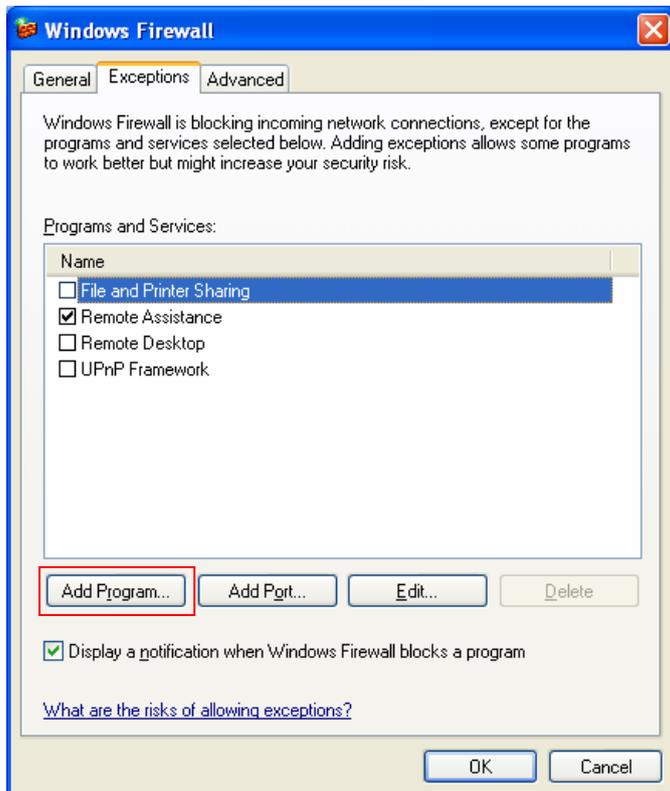
For Window Vista: [Control Panel] – [Security] – [Allow a program through Windows Firewall]

For Windows 7: [Control Panel] – [System and Security] – [Allow a program through Windows Firewall]

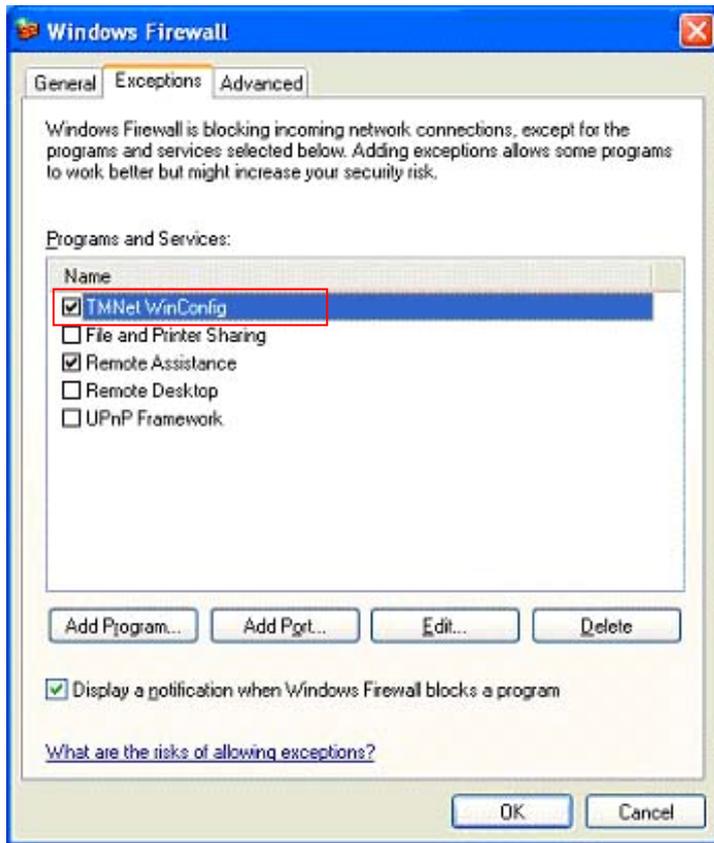
2. In the **General** tab, make sure the Windows Firewall is set to **ON**, and the checkbox of “**Don’t allow exceptions**” is not checked. If it is checked, uncheck it.



3. Click the **Exceptions** tab, and make sure there is “TMNet WinConfig” in the program list. If there is not, click the **Add Program** button, and add TMNet WinConfig to the list.



4. Make sure the checkbox of “TMNet WinConfig” in the list is checked, and click the **OK** button.



5. Restart TMNet WinConfig.