

Intel-powered Convertible Classmate PC Easy Network User Manual

For Ubuntu Operating System

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Chapter Summaries

The Intel-powered convertible classmate PC Easy Network User Manual consists of the following parts:

- **1. General Introduction**

Provides an introduction to the Intel-powered convertible classmate PC Easy Network.

- **2. Network Manager**

Describes how to apply the profile and view the connection information through Easy Network.

- **3. Scan for Networks**

Describes how to scan the AP nearby and manually connect AP through Easy Network.

- **4. View Neighbors**

Describes how to scan the neighbors nearby.

- **5. Network Profile Manager**

Describes profile management functions, including create, edit, delete, import and export a profile. It also can set the priority for the local profile. You can set the profile to show or not to show in Network Manager Window.

- **6. Frequently Asked Questions**

Describe solutions to some frequently asked questions

1 Introduction

The Intel-powered convertible classmate PCs are affordable, rugged, and fun netbooks built for learning. Based on research in educational settings, the child-friendly design converts from a clamshell to a touch-optimized tablet – promoting intuitive use, interactive learning, and new mobility. Intel-powered convertible classmate PC comes with education-specific features and software, and is supported by a wide range of local vendors.

Easy Network is a tool to manage the network. You can set up a connection to a network and create, edit, delete, import, and export network profiles. Different profiles can be applied for typical scenarios. You can also scan, view, and connect to computers nearby. **Easy Network** provides you with a simple way to manage the network.

A user can perform the following operations:

- Management network connection: includes viewing current network status, connecting or disconnecting a network profile, and turning on or off the wireless.
- Management network profile: includes creating, editing, deleting, importing, and exporting network profiles.
- Scan for Networks access point (AP) and manually connect an AP.
- View computers nearby.

Easy Network displays an icon on the taskbar. When you right- or left-click the taskbar icon, a touch-optimized menu will display. When you double-click the taskbar icon, the Network

Manager window will display. You can access the functions of Easy Network through this window.

1.1 System Requirements

The system requires an Ubuntu operating system.

1.2 Install

Easy Network install package format is deb.

If not login as Root account, run command: `sudo dpkg -i xxx.deb`. If history data (network profile or policy) is selected, the install package will let you derive such history (network profile or policy) and install the application. If the install package detects that a newer version had already been installed, the current installation will be automatically cancelled.

1.3 Uninstall

If you do not login as Root account, run command: `sudo dpkg -r easy-network`.

You can select to store history data during the uninstall procedure.

1.4 Start Up

The application will start up after installation. If you restart the system, it will run automatically.

You can also:

- Click **Application -> Other -> Easy Network** to run after install.

Once the system boots up, the application will automatically connect to the networks based on the priority of the profiles, if there is any profile data. If no pre-defined profile is found, connection failure will be shown.

2 Network Manager

2.1 Network Connection Status




Easy Network has several different connection statuses.

2.1.1 Taskbar Icon Status

Easy Network will be minimized and display as an icon in the taskbar after start up. You can single-click the icon (left or right) to popup the taskbar menu.

The icon will change when network status changes.

Table 1 - Network Status

Network Status		
Disconnect	LAN connect	WLAN connect
		

2.1.2 Taskbar Menu

A touch optimized menu will display when you right- or left-click the taskbar icon. Through this menu, you can:

- **Connect to Profile:** after you click **Connect to Profile**, a submenu displays the profile list which was set as “available” by administrators and OS account. You can select a network profile from this list to connect. It includes wired and wireless connection profiles. The current applying profile will be ticked in the list.

- Scan for Networks: you can also manually scan wireless networks (AP) and connect. Please see Chapter 3 for more details.
- Launch Manage Network: you can single left-click Network Manager to launch it.
- Launch Help.

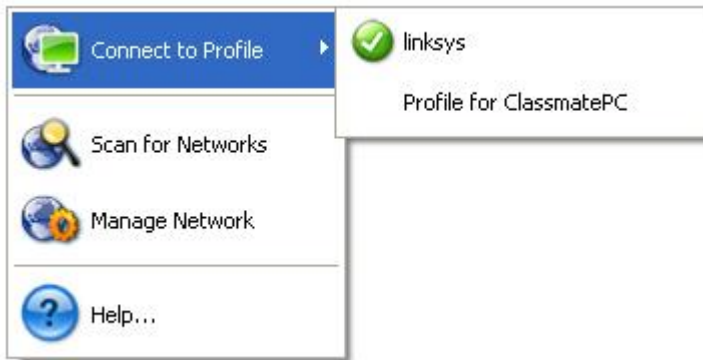


Figure 1 - Taskbar Menu

2.1.3 Network Manager Balloon

Automatic Run

When the application starts up with the operating system, it will automatically apply the pre-defined profile.

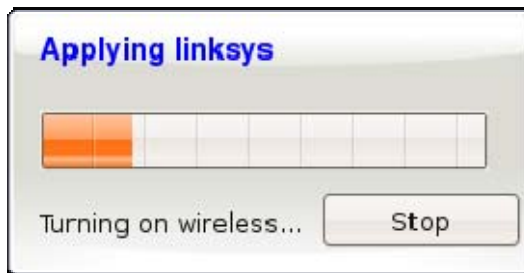


Figure 2 - Automatically Apply Profile Balloon

If no one connected successfully and the current network status does not have the wireless adapter enabled, the following balloon displays:

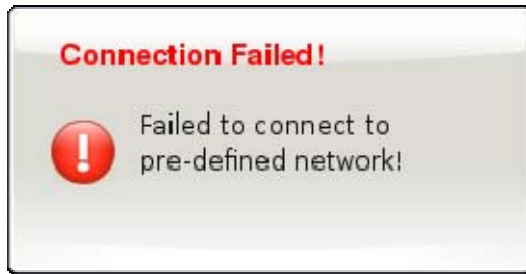


Figure 3 - Automatic Connection Failed

If connection was unsuccessful and the current network status is "wireless adapter enabled", the following balloon displays.

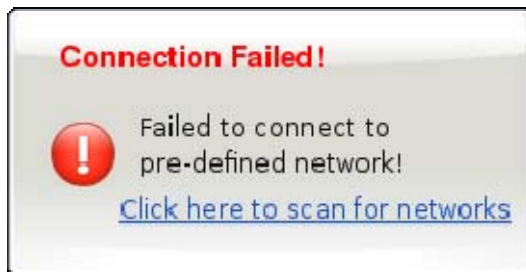


Figure 4 - Automatic Connection Failed Scan Link

Click the link to scan the network.

Network Status

After connections are established, a balloon will pop up showing current network status when you move the cursor

over the taskbar icon. You can see detailed info about the connection.

- AP mode:
 1. Name(Profile Name or AP Name)
 2. Type (Wireless LAN)
 3. Speed (11 Mbps, 54 Mbps and 108 Mbps)
 4. Signal Quality (percentage and progress bar)
- LAN mode:
 1. Name(Profile Name or Wired LAN)
 2. Type (Wired LAN)
 3. Speed (10 Mbps/100 Mbps)



Figure 5 - No Connection Status Balloon

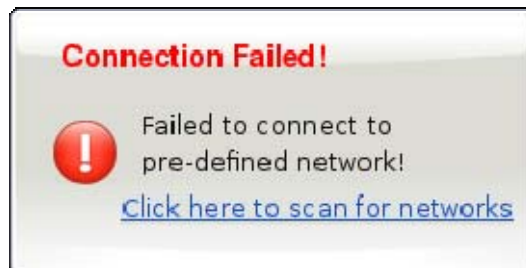


Figure 6 - No Connection Status Balloon Scan Link



Figure 7 - WLAN Connection Status Balloon

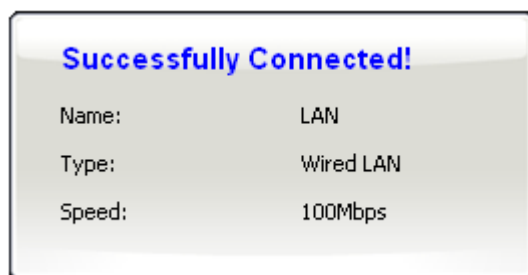


Figure 8 - LAN Connection Status Balloon

LAN to WLAN

If wired LAN is connected, wireless LAN is disabled and the cable is plugged. If wired LAN is disabled or cable is unplugged from Intel-powered classmate PC, the application will prompt you if they want to switch to wireless LAN.

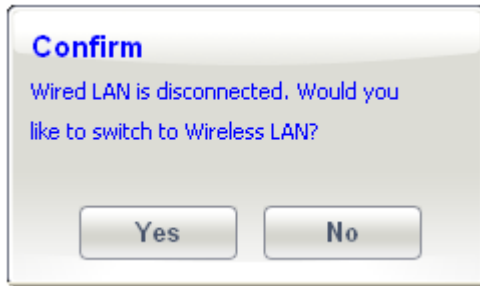


Figure 9 - LAN to WLAN Confirm Balloon

If **No** is selected, nothing will happen. If **Yes** is selected, the application automatically connects to the profile according to priority, until connection is successful.

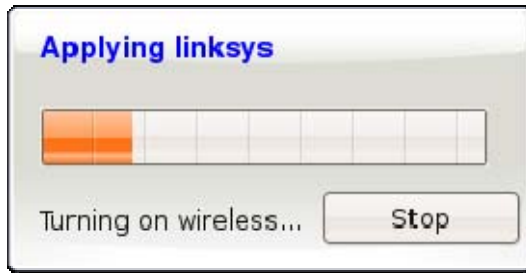


Figure 10 - Automatically Apply Profile Balloon

If the switch is unsuccessful, a prompt will display about the failure and offer a link to find a network.



Figure 11 - Manually Scan for Networks Confirm Balloon

WLAN to LAN

If the wireless LAN mode is active, clicking **OK** on the prompt shown below will turn off wireless LAN.

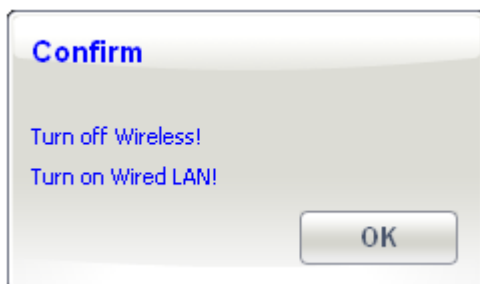


Figure 12 - Turn off Wireless Balloon

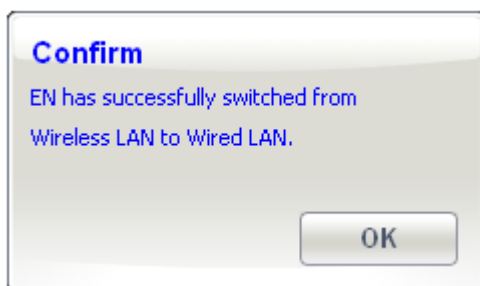


Figure 13 - WLAN to LAN Successfully Balloon

The balloons will automatically disappear in 10 seconds.

2.2 Network Manager

You can open Network Manager by either selecting it on the taskbar menu or left double-clicking the taskbar icon.

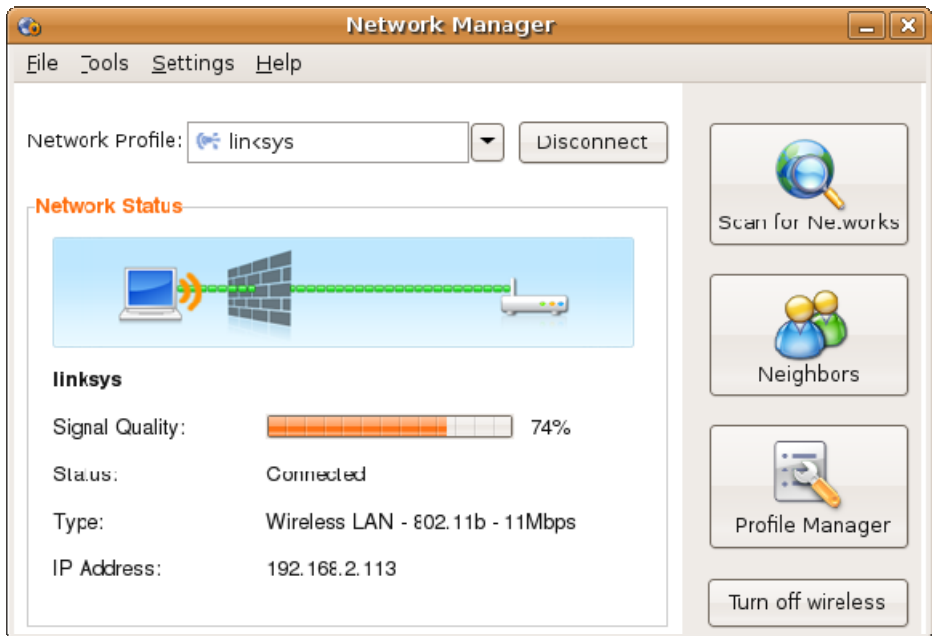


Figure 14 - Network Manager Window

In this window, you can:

- switch between pre-defined network profiles.
- show connection information.
- turn on/off wireless.

- import school profile.
- launch to Scan for Networks Window, Neighbors Window, and Profile Manager Window.

Major functions of Network Manager can be accessed through the menu bar. The following table describes the menu bar items:

Table 2 - Network Manager Menu Bar Items

File	Tools	Settings	Help
Import School Settings ...	Connect/Disconnect	Profile Manager	Help Contents
Exit	Scan for Networks	Turn off/on Wireless	About
	View Neighbors		

2.2.1 Switch between Pre-defined Network Profiles

A pre-defined network profile can be selected in a combo box component which was set as “available” by administrators and OS account. If you apply a profile successfully, the **Connect** button will switch to **Disconnect**. If the combo box shows the current connecting profile, the button will show **Disconnect**. If you change the profile, the **Disconnect** button will switch to **Connect** automatically.

2.2.2 Show Connection Info

The information below shows when one network mode has connected successfully.

- AP mode:
Signal Quality (percentage and progress bar)
Status (Connected/Disconnected)
Type:
 - Wireless LAN - 802.11g – 54 Mbps
 - Wireless LAN - 802.11b – 11 Mbps
 - Wireless LAN - 802.11n – 108 MbpsIP Address
- LAN mode:
Signal Quality (gray)
Status (Connected/Disconnected)
Type:
 - Wired LAN – 10 Mbps
 - Wired LAN – 100 MbpsIP Address

2.2.3 Turn On/Off Wireless

The wireless can be turned off/on by clicking the turn on/off button. When the mode is changed manually, the button will change automatically.

If the system is in wired LAN mode, the button will be **Turn on wireless**. When **Turn on wireless** is clicked to enable the wireless adapter, the application will automatically connect to the wireless profile according to the priority until connection is successful.

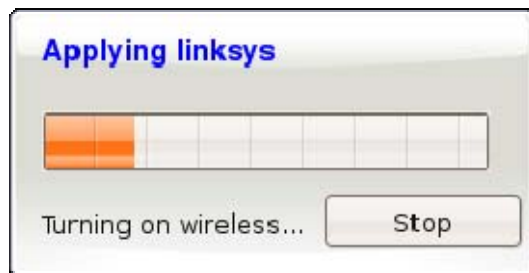


Figure 15 - Automatically Apply Profile Balloon

If a connection is successful, a confirmation balloon will display:

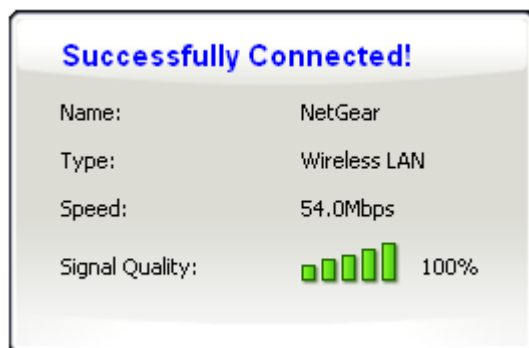


Figure 16 - LAN to WLAN Successfully Balloon

If no one is success, tell user automatically connection fail.



Figure 17 - Manually Scan for Networks Confirm Balloon

If it is a wireless LAN mode, the button will be Turn off Wireless. When Turn off Wireless is clicked, it will disable the wireless adapter and turn on the wired adapter. A confirmation balloon will display.



Figure 18 - Turn off Wireless Balloon

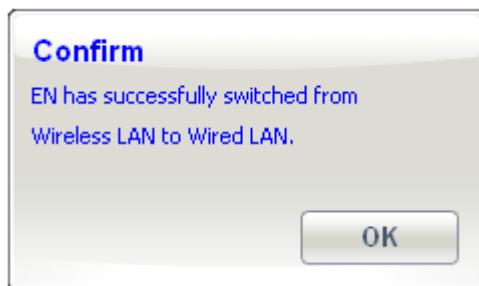


Figure 19 - WLAN to LAN Switch Balloon

2.2.4 Import School Profiles

School profiles can be imported by clicking **File -> Import School Settings ...** on the menu. A dialog will display asking you to select the file you want to import.

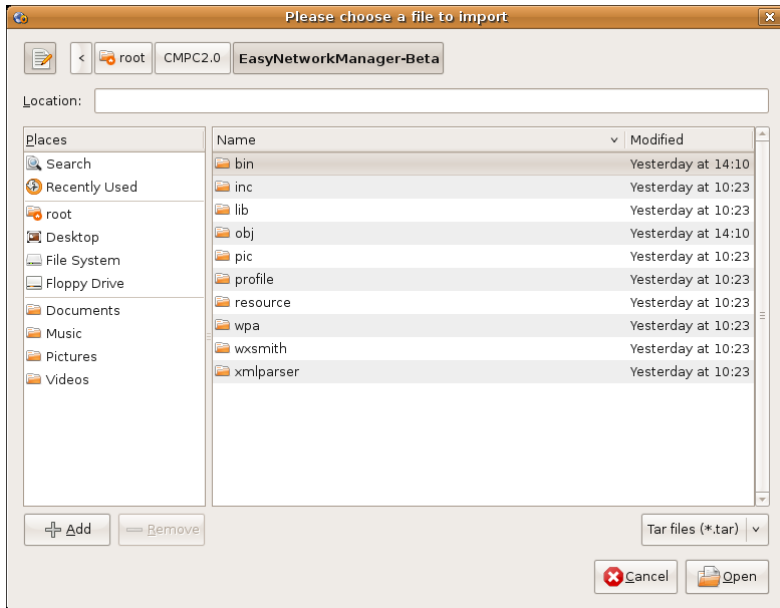


Figure 20 - Import School Settings

2.2.5 Launch Other Window

The **Scan for Networks**, **Neighbors**, and **Profile Manager** windows can be launched by clicking the button on the window. The menu item can also be clicked to enter the window.

3 Scan for Networks

3.1 Scan for Networks

When the wireless adapter is enabled, the Scan for Networks window can be opened by:

- clicking **Scan for Networks** in the Network Manager window.
- selecting **Tools** -> **Scan for Networks**, or **Scan for Networks** on the taskbar icon menu.

There is a map which presents the network AP. The connected AP should be highlighted in this network map.

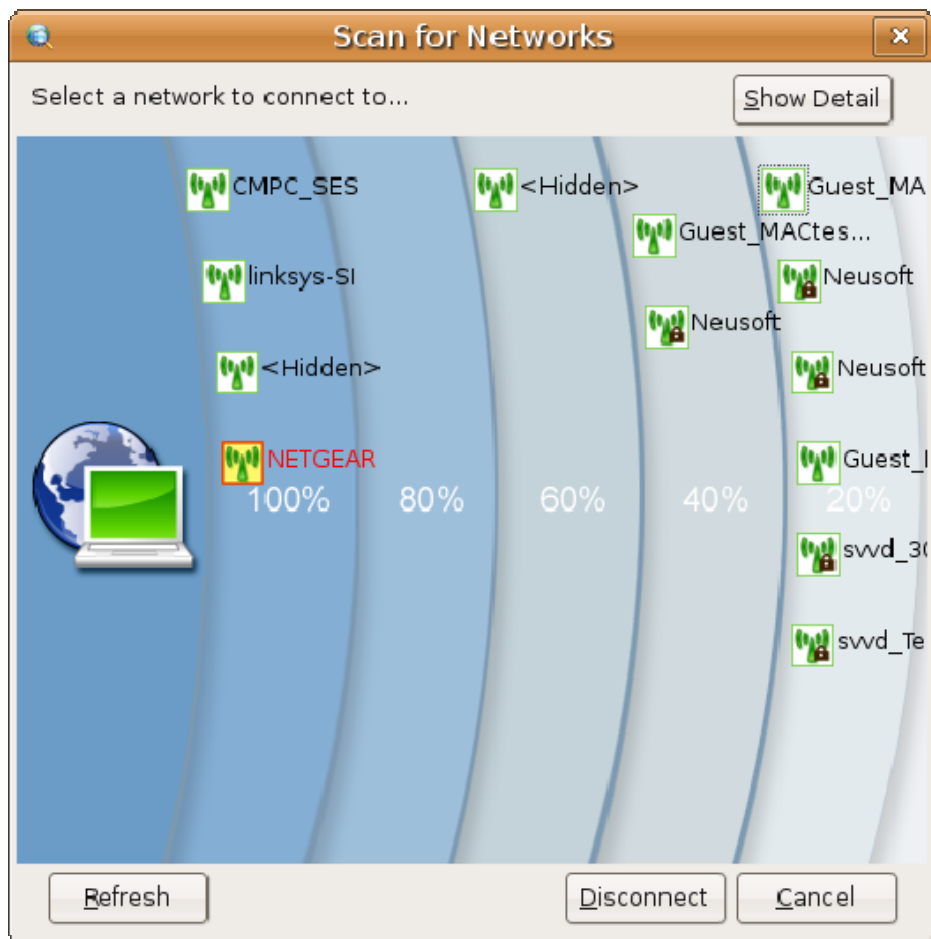


Figure 21 - Scan for Networks Window

The icon image with lock symbol stands for encrypted AP; the one without lock symbol stands for unencrypted AP. Currently connected AP is highlighted.

You can select one network (AP) and click **Connect** or double-click the network icon to manually connect to it. If connection fails, the following messages display:

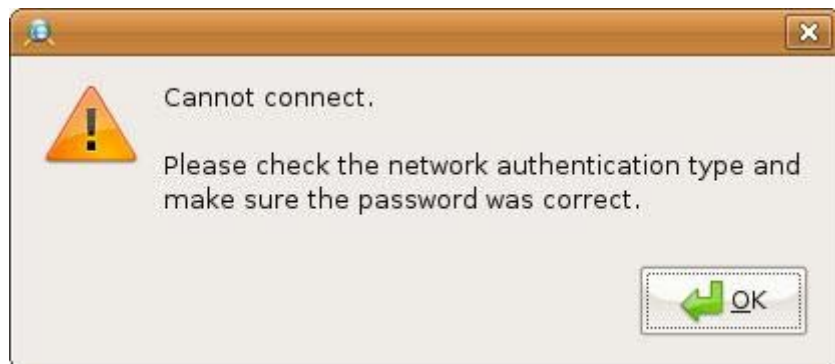


Figure 22 - Connect AP Failed Window

Input SSID dialog will pop up when you try to connect a hidden AP. The SSID can not be empty.

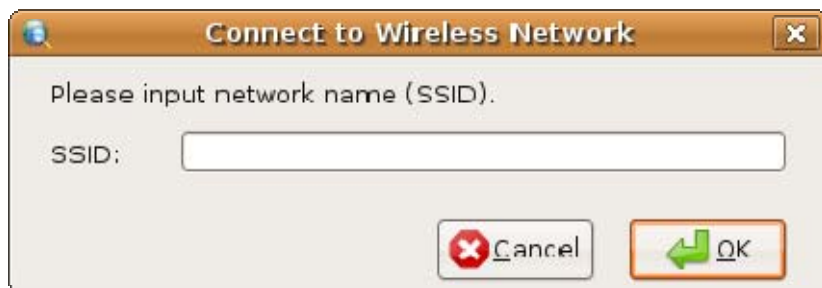


Figure 23 - Input SSID Window

A password dialog box will pop up if the network is password protected. The key box cannot be empty.



Figure 24 - Connect AP with Password Window

Clicking **Refresh** will re-scan the network.

3.2 Scan for Networks Detail

When the **Show Detail** button on the Scan for Networks window is clicked, a detail window will pop up providing detailed information about the detected APs. The detail information includes:

- AP Name
- Signal Quality (Percentage only)
- Connected(Yes/No)
- Encrypt (Encrypted/Unencrypted)
- Type (802.11b/802.11g/802.11n)
- Channel
- MAC Address

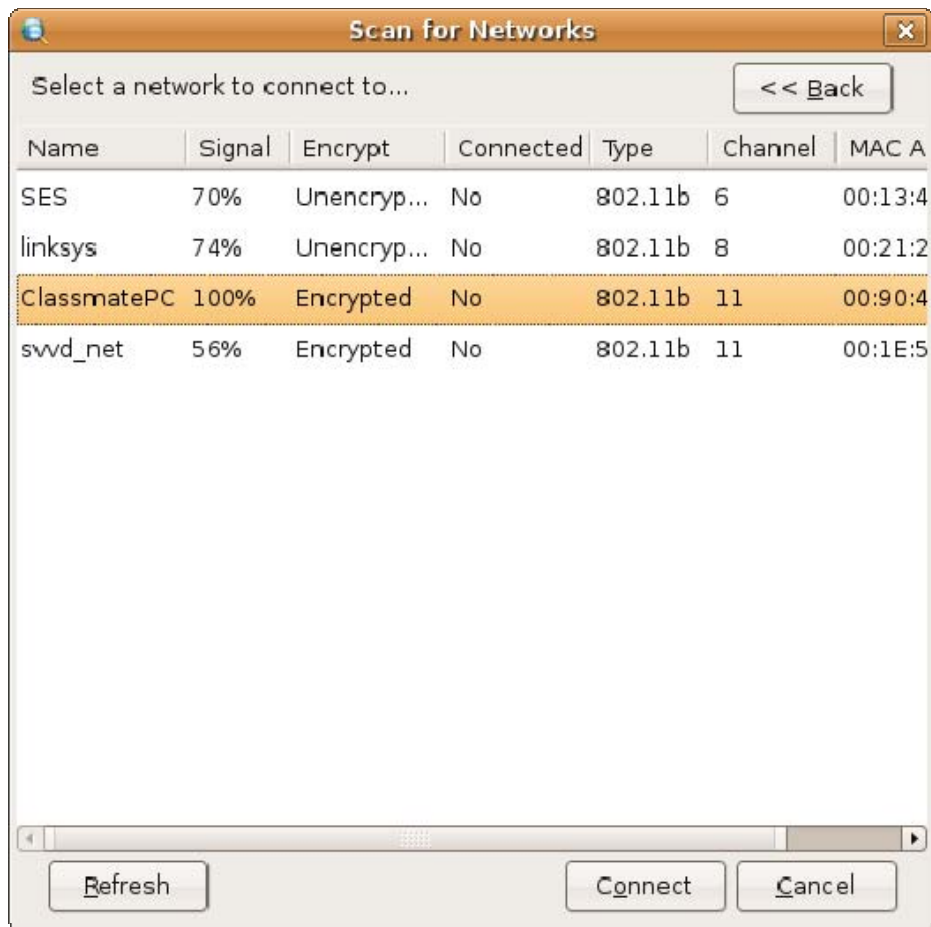


Figure 25 - Scan for Networks Detail Window

The detected APs can be ranked by **AP Name**, **Signal Quality**, **Encrypt**, **Type**, **Channel**, **MAC Address**. You can select one network (AP) and click **Connect** or double-click the network icon to manually connect to it. A message will display when a user connects successfully or connection fails. On the failed

window, click the **Back** button to go back to the Scan for Networks main dialog. Click **Cancel** to close the detailed information dialog.

4 View Neighbors

When the wireless adapter is enabled, click **Neighbors** on the Network Manager window or on the menu **Tools -> View Neighbor** to open **Network Neighbors** window. It displays the hostname & IP address of all the computers connected to the same Access Point (AP).

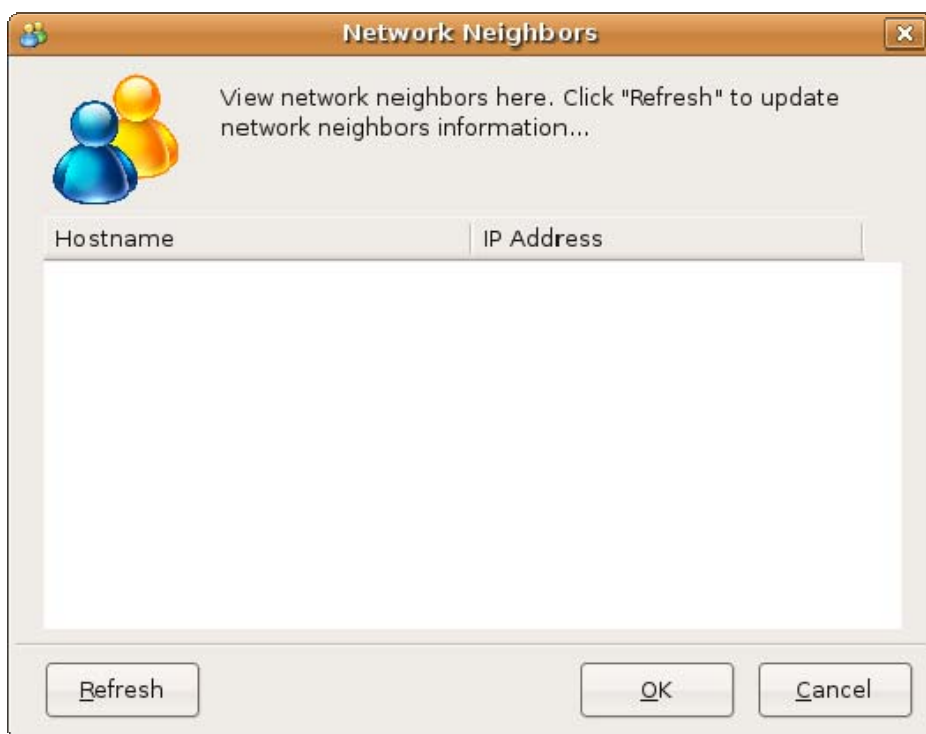


Figure 26 - Network Neighbors Window

Click **Refresh** to re-scan the neighbors.

5 Network Profile Manager

Click **Profile Manager** on the Network Manager window to open it.

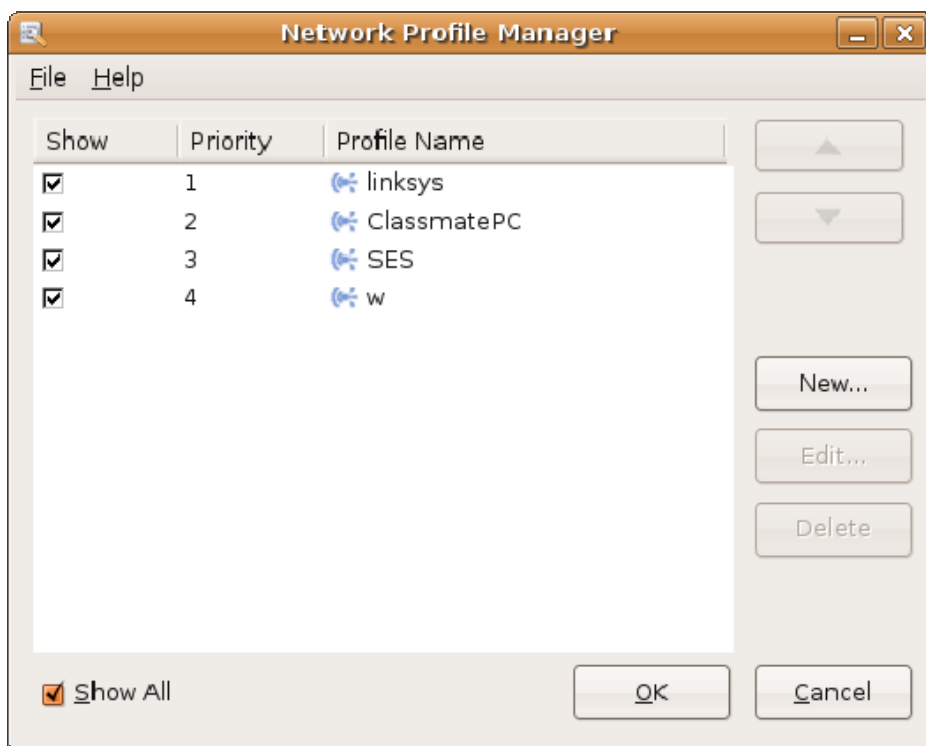


Figure 27 - Network Profile Manager Window

In this window, you can:

- adjust the priority.
- manage network profiles: create a new profile, edit a profile, delete a profile, import a profile or export a profile.

- set profile show.
- get help by clicking the Help button or pressing F1.

The dialog has menu bar and list and some buttons on it. Major functions of Network Manager can be accessed through the menu bar:

Table 3 - Network Profile Manager Menu

File	Help
Import Profile...	Help Content
Export Profile...	
New ...	
Edit ...	
Delete	
Exit	

Network profiles created by local non-administrator accounts, only valid/visible for the exact account, and saved in each accounts' local space. For administrator account, all the modification/additions are implemented on local computer's global space.

5.1 Adjust the Priority

All profiles in the profile list will show based on priority. The priority of a selected profile can be adjusted by clicking the Up/Down button. All school profiles should be gray and listed on the top of the profile list. A normal user cannot adjust the priority of school profiles and edit/delete school profiles. If no

profiles are checked, then the Up/Down button is gray. If the first profile is selected, the Up button is gray. If the last profile is selected, the Down button is gray.

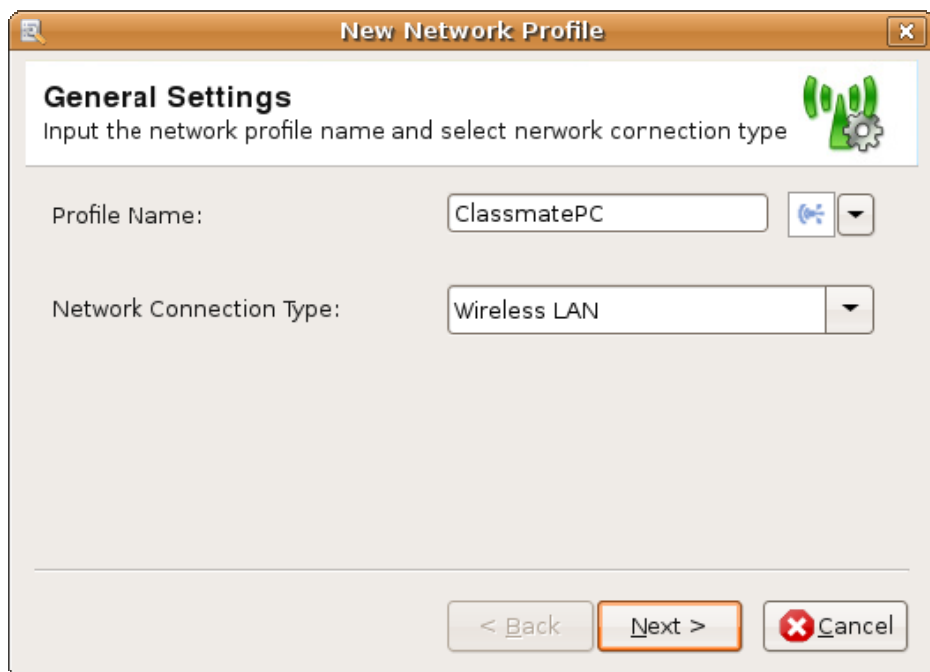
5.2 Create a New Network Profile

You can create customized network profiles. When the **New...** button is clicked in the Profile Manager window, or **File** -> **New...** is selected from the menu, the **New Network** profile wizard will pop up.

It has three steps for creating a net network profile, general settings, wireless settings, and other settings.

Step 1 - General Settings

You can input a profile name, select a profile icon and select a network connection type. Network Connection type includes Wired LAN and Wireless LAN. A profile name cannot be longer than 32 characters. After settings, click **Next** to continue. If Wired LAN is select, go to step 3. If Wireless LAN is selected, go to step 2.



The image shows a window titled "New Network Profile" with a close button in the top right corner. Below the title bar is a section labeled "General Settings" with a subtitle "Input the network profile name and select network connection type" and a green wireless signal icon with a gear. The main area contains two labels: "Profile Name:" and "Network Connection Type:". The "Profile Name:" label is followed by a text input field containing "ClassmatePC" and a button with a blue wireless signal icon and a dropdown arrow. The "Network Connection Type:" label is followed by a dropdown menu showing "Wireless LAN" and a dropdown arrow. At the bottom of the window are three buttons: "< Back", "Next >" (highlighted with an orange border), and a red "X" button labeled "Cancel".

Figure 28 - New Profile Step 1

- If a name is not given to a profile and the Next button is clicked, the following message will display:

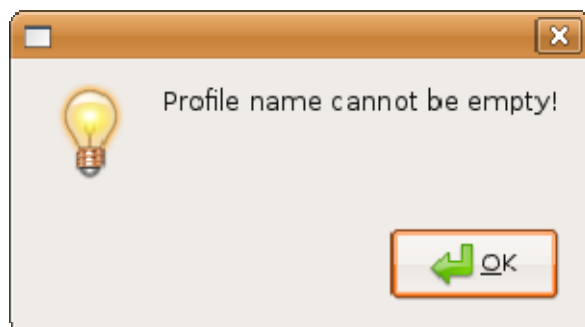


Figure 29 - Profile Name Empty Warning

- The Profile Name can accept all characters except \, /, %, :, *, ?, ", ', <, >, |. If a new profile is named with any of these characters and Next is clicked, the following warning message will display, *"Profile name cannot contain any of the following characters \, /, %, :, *, ?, ", <, >, |"*:

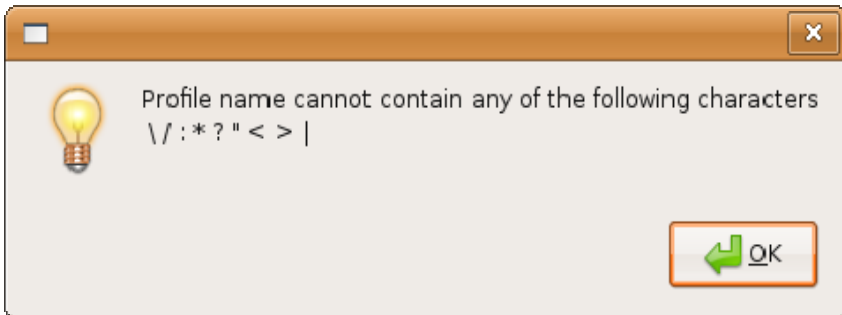


Figure 30 - Profile Name Contain Special Character Warning

- If the name of an existing profile is used and Next is clicked, the following warning message will display, *"A profile with the name you specified already exists. Please specify a different name!"*:

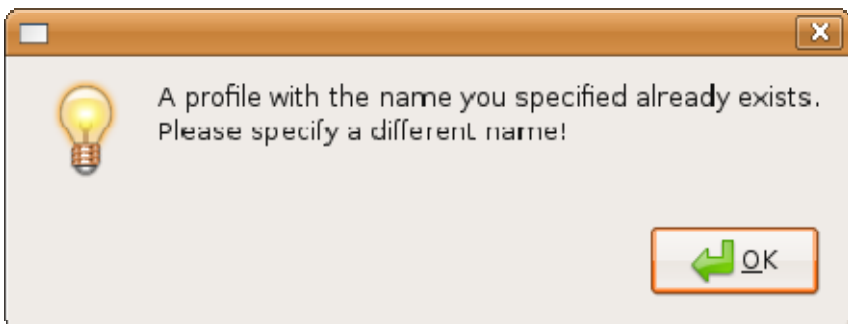
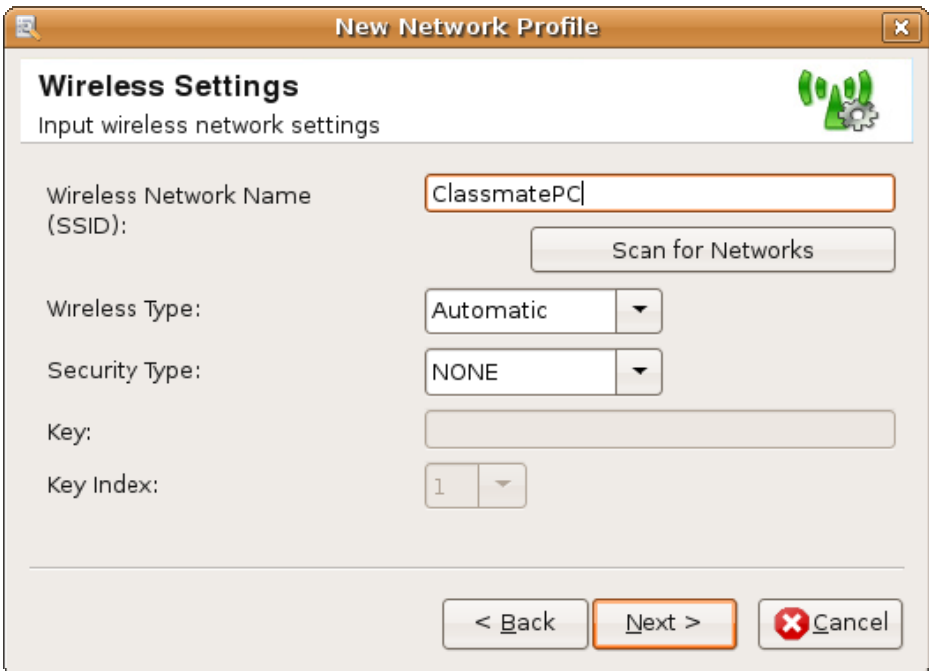


Figure 31 - Profile Name Repeated Warning

Step 2 - Wireless Settings

If network connection is wired LAN type, go to Step 3. You can set wireless settings in Step 2. It includes SSID, wireless type, and security type. Wireless type includes **Automatic**, **802.11b**, **802.11g**, and **802.11n**. Security type includes **None**, **WEP**, **WPA-PSK**, and **UNKNOWN**. If network connection type is wireless LAN, you can input it manually or use the **Scan for Networks** button to fill the detected AP automatically.



New Network Profile

Wireless Settings
Input wireless network settings

Wireless Network Name (SSID):

Wireless Type:

Security Type:

Key:

Key Index:

Figure 32 - New Network Profile Step 2

Choose an AP window to show an AP name, signal, and type. When one item is selected and OK clicked, the information of the AP is put in automatically. If the security type of the AP is unknown, it will inform you.

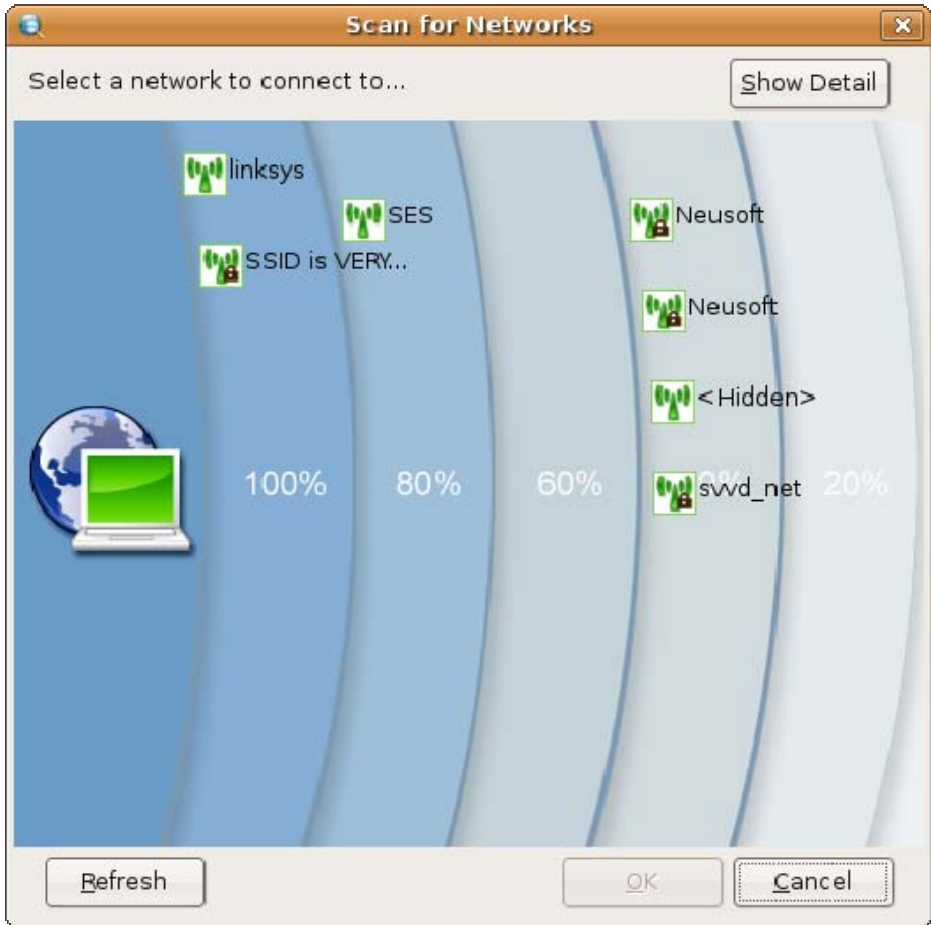
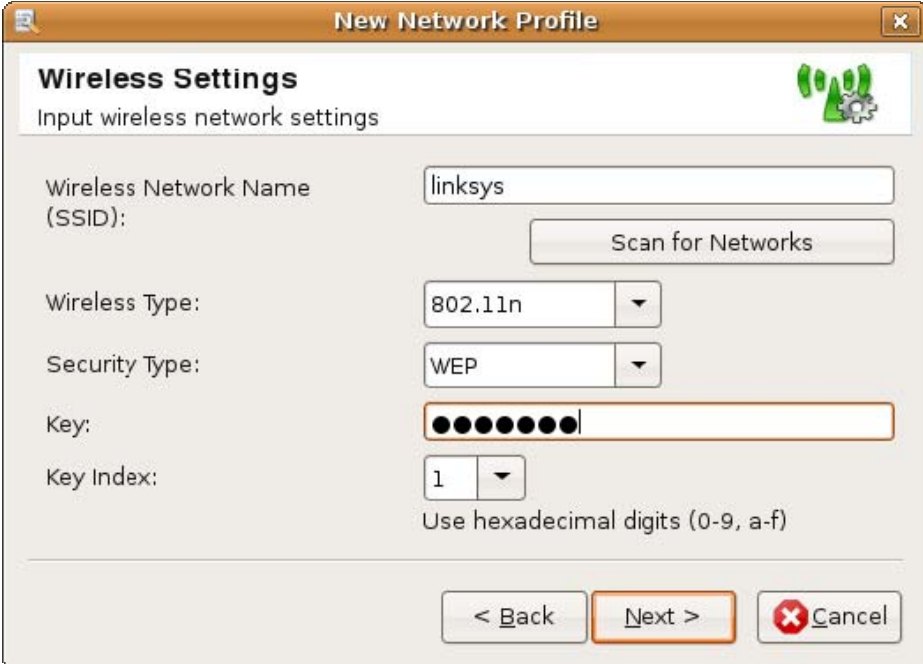


Figure 33 - Choose AP Window

If the WEP or WPA security type is set, the **Key** input text will display where the password for the connecting AP can be set. WEP password use hexadecimal digits (0-9,a-f) and WPA use 8-63 alphanumeric characters (0-9,a-z). The key cannot be empty.



The image shows a 'New Network Profile' dialog box with a title bar containing a help icon, the text 'New Network Profile', and a close button. The main content area is titled 'Wireless Settings' and includes a subtitle 'Input wireless network settings'. A green wireless router icon is in the top right corner. The settings are as follows:

- Wireless Network Name (SSID):** A text field containing 'linksys'.
- Scan for Networks:** A button located to the right of the SSID field.
- Wireless Type:** A dropdown menu showing '802.11n'.
- Security Type:** A dropdown menu showing 'WEP'.
- Key:** A text field containing seven black dots, indicating a hexadecimal password.
- Key Index:** A dropdown menu showing '1'.
- Instructions:** Below the Key Index, it says 'Use hexadecimal digits (0-9, a-f)'.

At the bottom, there are three buttons: '< Back' (disabled), 'Next >' (highlighted with an orange border), and a red 'X' 'Cancel' button.

Figure 34 - Static WEP Settings

The image shows a 'New Network Profile' dialog box with a 'Wireless Settings' tab. The 'Wireless Network Name (SSID)' field contains 'linksys'. A 'Scan for Networks' button is to the right. The 'Wireless Type' dropdown is set to '802.11n'. The 'Security Type' dropdown is set to 'WPA-PSK'. The 'Key' field is masked with eight dots. The 'Key Index' dropdown is set to '1'. At the bottom are '< Back', 'Next >', and 'Cancel' buttons. The 'Next >' button is highlighted with an orange border.

Field	Value
Wireless Network Name (SSID)	linksys
Wireless Type	802.11n
Security Type	WPA-PSK
Key	••••••••
Key Index	1

Figure 35 - WiFi Settings Dialog

The SSID cannot be empty and no more than 32 characters. If you select a security type, you should also set the password for connecting.

If the **Back** and then the **Next** buttons are clicked, the content of Step 2 will be saved. Click **Next** to continue.

Step 3 - Other Settings

You can set network security, automatically enable applications, overwrite default TCP/IP and DNS, overwrite homepage, and overwrite proxy configuration in Step 3. If you selected Wired LAN in Step 1, the network security item will be

gray. If some items were checked, the corresponding settings buttons will be enabled. When this profile is activated, these applications will be launched automatically. Click **Finish**, complete the profile creation.

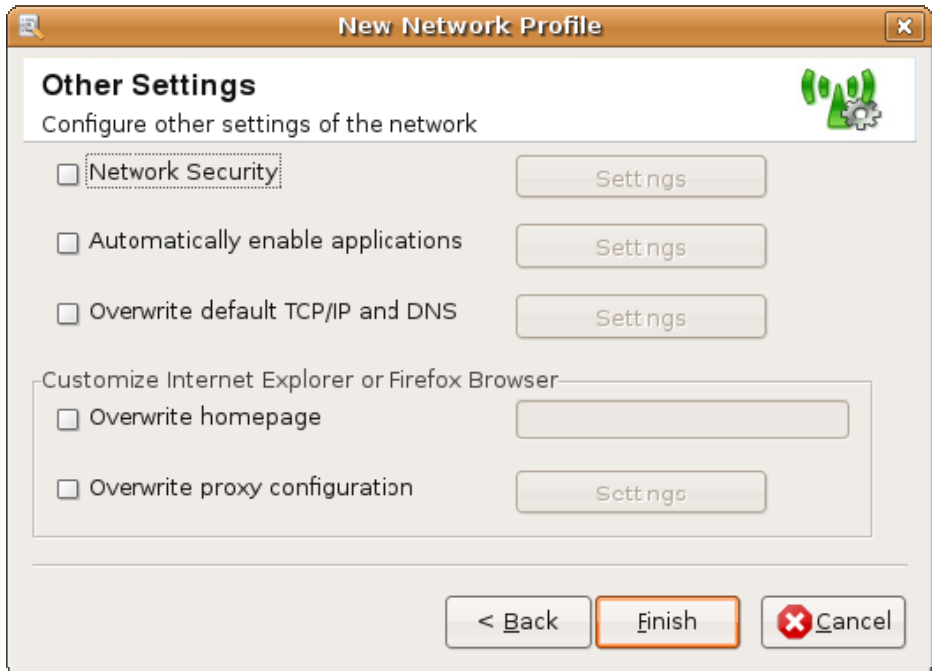


Figure 36 - New Network Profile Step 3

Network Security:

You can forbid sharing Internet connection.

Choose the checkbox **Network Security**, and the **Settings** button will be activated, then click **Settings**, a balloon will popup:



Figure 37 - Network Security Dialog

Automatically Enable Applications:

Choose **Automatically Enable Applications** and click **Settings**, a dialog as below will popup.

You can create and modify an application list. When this profile is activated, these applications will be launched automatically. Clicking **Add** will open a window to select the application. When an item is selected, the delete button will enable, and the delete button can be clicked to delete the profile.

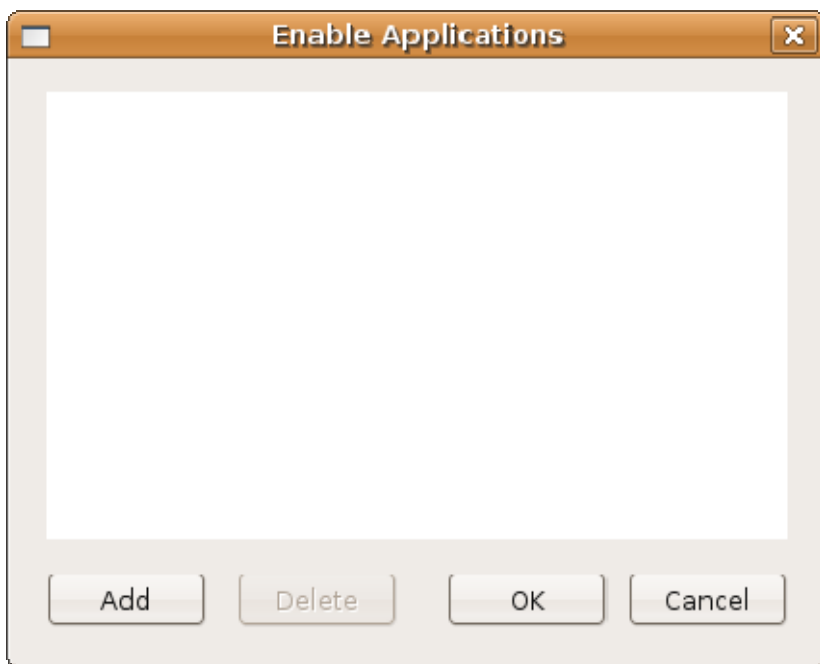


Figure 38 - Enable Applications Dialog

Overwrite default TCP/IP and DNS:

You can set IP, Subnet Mask, Gateway Address, and DNS. After this profile is applied successfully, IP will overwrite.

The image shows a standard Windows-style dialog box titled "IP Settings". It has a title bar with a minimize button, a maximize button, and a close button (X). The main area of the dialog contains four labels on the left, each followed by a text input field on the right: "IP:", "Subnet Mask:", "Gateway Address:", and "DNS:". At the bottom right of the dialog, there are two buttons: "OK" and "Cancel".

Figure 39 - IP Settings Dialog

Any of the boxes cannot be empty. The IP address and DNS address cannot be broadcast address, multicast address, or reserved address. The IP address cannot be same as the network address and should match the gateway. (The multicast address is from 224.0.0.0 to 239.255.255.255. The reserved address is from 240.0.0.0 to 247.255.255.255.)

Overwrite Homepage:

You can replace the current IE homepage with a different homepage.

Overwrite Proxy Configuration:

It includes address and port settings for the proxy. Only numbers can be used in the port box. The address and port cannot be empty.



Figure 40 - Proxy Settings Dialog

5.3 Edit a Profile

You can create customized network profiles. The **Edit Network Profile** window will display when you click the **Edit...** button in the **Profile Manager** window, or select menu **File -> Edit...** from the menu.

Same as in creating a profile, it has three tables for editing a net network profile: general settings, wireless settings, and other settings.

5.3.1 General Settings

A profile name can be edited except for the current applied profile. If the profile is a wireless type, the profile icon can be changed in the General Settings panel. If the profile is a wired LAN type, the profile icon and authentication properties can be

changed in the general settings panel. The Network Connection Type cannot be edited.



Figure 41 - Edit Network Profile Table 1

5.3.2 Wireless Settings

Wireless settings can be modified in this window. It is the same as creating a profile in Step 2.

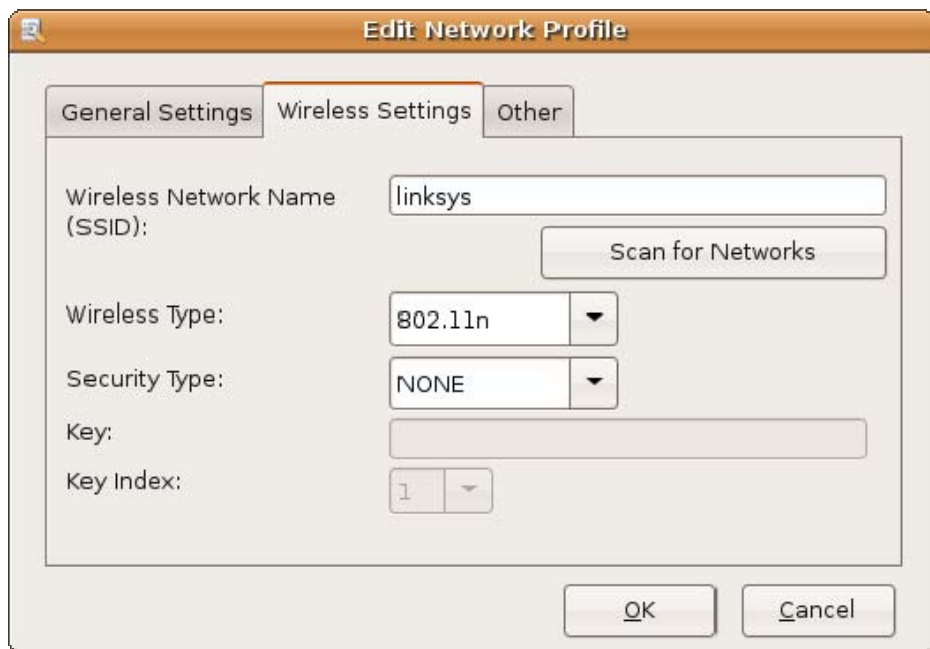


Figure 42 - Edit Network Profile Table 2

5.3.3 Other

Other settings can be modified in this window. It is the same as creating a profile in Step 3.

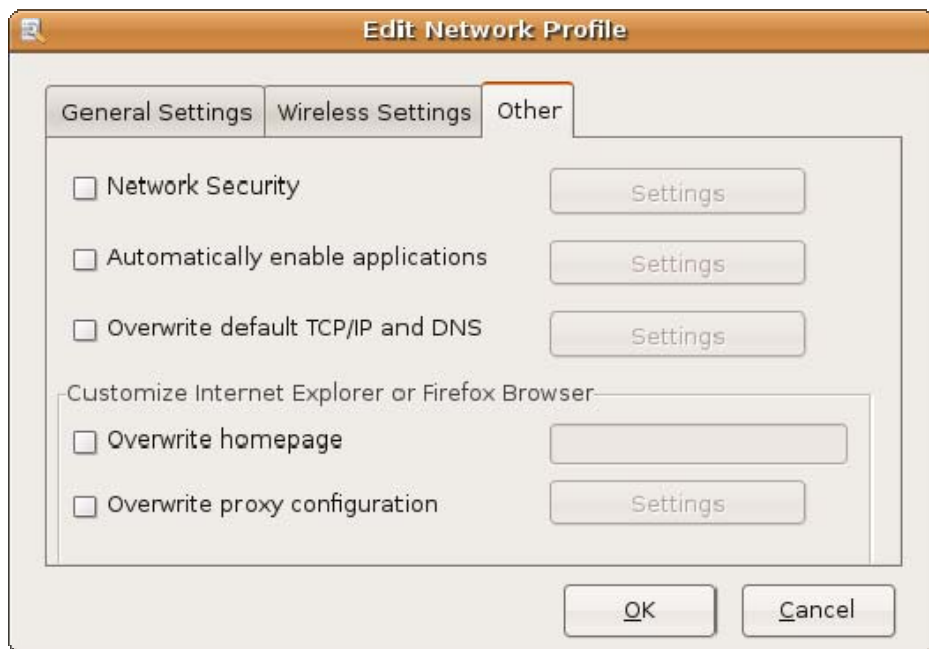


Figure 43 - Edit Network Profile Table 3

5.4 Import/Export Profile

You can click **File -> Import Profile...** or **Export Profile...** from the menu bar to import or export profiles if one profile is selected.

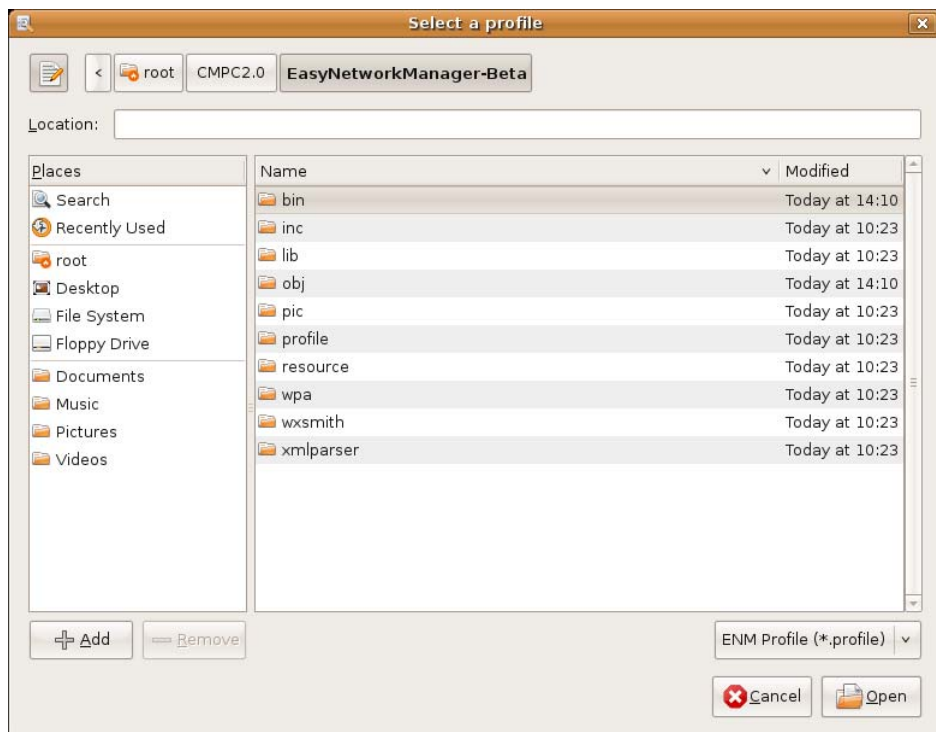


Figure 44 - Import Profile Dialog

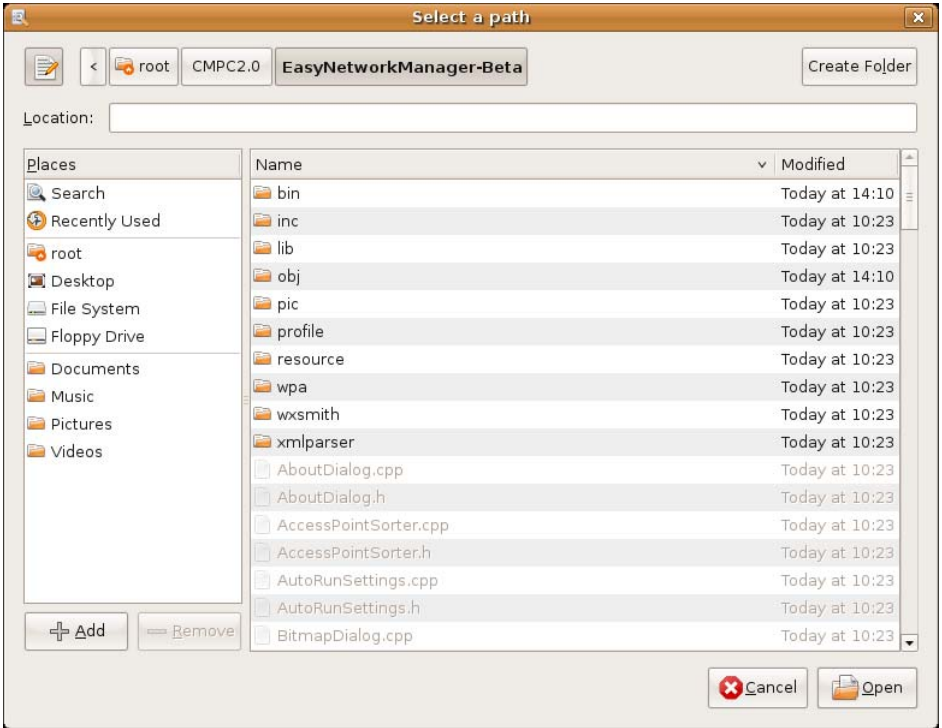


Figure 45 - Export Profile Dialog

5.5 Delete Profile

You can select a profile from the profile list and single-click the **Delete** button or go to **Tools->Delete Profile** in the menu bar, and confirm the popup to delete the selected profile. The current active profile cannot be deleted.

5.6 Set Profile to Show

A checkbox before a profile means whether it can be seen in **Easy Connect Menu** or **Network Manager** under the current account environment or other local non-administrator accounts environment. You can check the checkbox to show the profile in the box and icon list.

5.7 Help

The help file can be accessed by clicking **Help - > Help Contents** from the menu on the **Profile Manager** window or pressing **F1**. The help file provides information about Easy Network.

5.8 About

The **About** window can be accessed by clicking **Help -> About** from the menu on the **Network Manager** window or clicking **F1**. The About window provides information about the product name, version, and copyright information.



Figure 46 - About Dialog

6 Frequently Asked Questions

Q: Why won't **Intel-powered convertible classmate PC Easy Network** turn on wireless and wired LAN?

A: The most likely reason is that your network adapter is disabled. Please make sure all network adapters are enabled.

Q: I entered the Scan for Networks window, but could not see my AP in the picture?

A: The most likely reason is that there are too many APs to be shown in the picture. You can see it in the Scan for Networks detail window.

Q: Why can not **Intel-powered convertible classmate PC** connect with wired LAN when PC is running and I plug in a LAN cable?

A: Please click **Turn off wireless** button after you plug in the cable.

Q: I entered the profile manager window, but some profiles are gray and cannot be edited; why?

A: Because there are two kinds of profiles: school profile and local profile. If you have a limited account, you cannot edit a school profile.

Q: Why can't I see some profiles in the Profile Manger dialog in the taskbar menu or Network Manger dialog?

A: A Profile will show only when the **Show** checkbox is selected in the **Profile Manager** dialog; otherwise it cannot be seen in the taskbar menu or Network Manager dialog and be applied.

Q: Why am I unable to search any neighbors?

A: You can only search neighbors connecting with the same AP and your neighbors must make sure that they turn off their Windows firewall, that the computer name is not duplicate with other computers, and in the same workgroup.

Q: Why could I not click Scan for Networks and View Neighbors button in Network Manager Dialog?

A: You must click **Turn on Wireless** first, and then you can click them.

Q: Why can't I edit a profile in the Profile Manager dialog?

A: You cannot edit a profile that is active. You must have a different profile open to edit the profile.

Q: Why can't I apply a wired profile successfully?

A: You must make sure you can connect to the Internet through a wired adapter. If you set a wrong IP address, Sub Mask or Default Gateway, even if the wired is plugged in, **Intel-powered convertible classmate PC Easy Network** will consider it as disconnected.

Q: Why can't I set network security in a wired profile?

A: Network security can be set only for wireless profile.

Q: Why could overwrite homepage and proxy not work in wireless settings page of a wireless profile?

A: Because Firefox must have been used before setting these options.