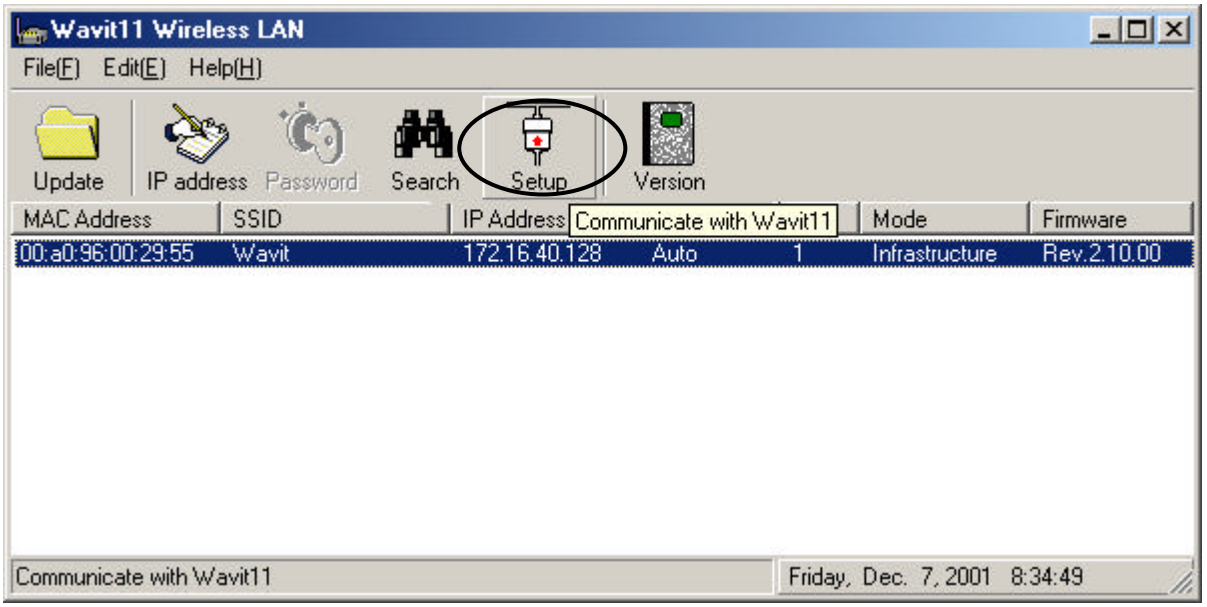
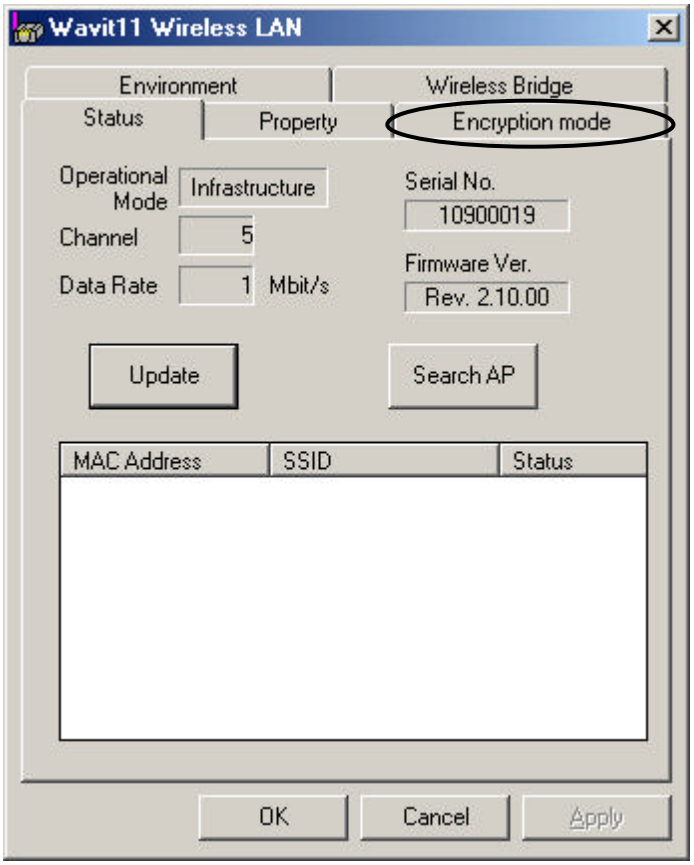
8. Encryption Setting

8.1. Encryption setting

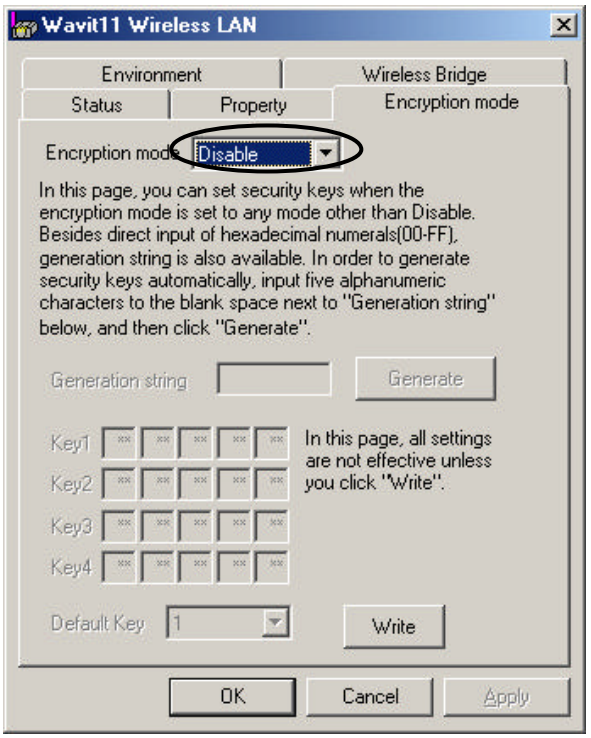
[STEP1] Click the “Setup” in the “Wavit11 Wireless LAN” window.

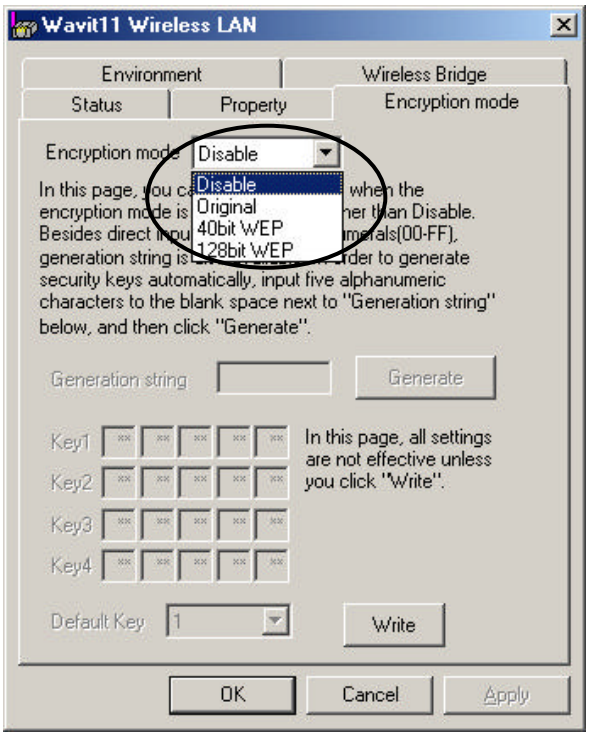


[STEP2] Click the “Encryption mode” page.



[STEP3] The “encryption mode” page opens. Select an encryption mode; the encryption mode at the time of factory shipment is “Disable”.





There are 3 type of encryption mode.
1. Mitsumi proprietary Original Encryption.
2. 40bit WEP Encryption.
3. 128bit WEP Encryption.

"Original Encryption" page68

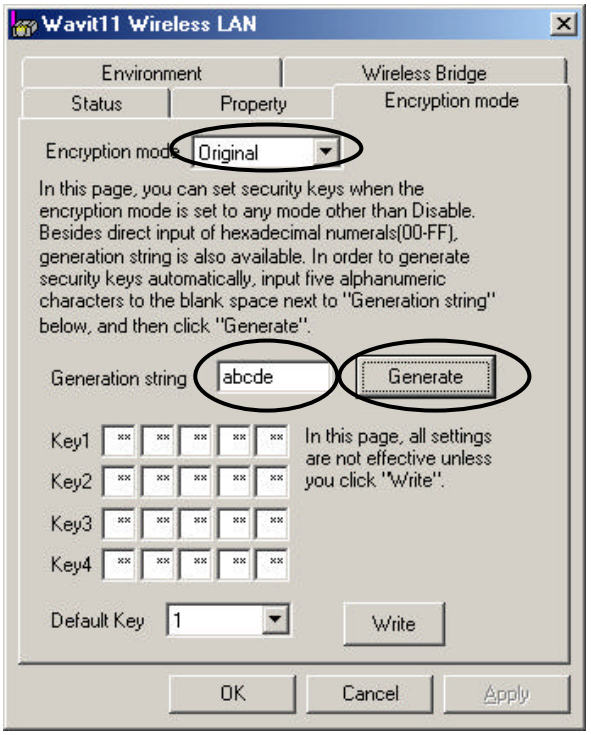
"40bit WEP Encryption" page71

"128bit WEP Encryption" page74

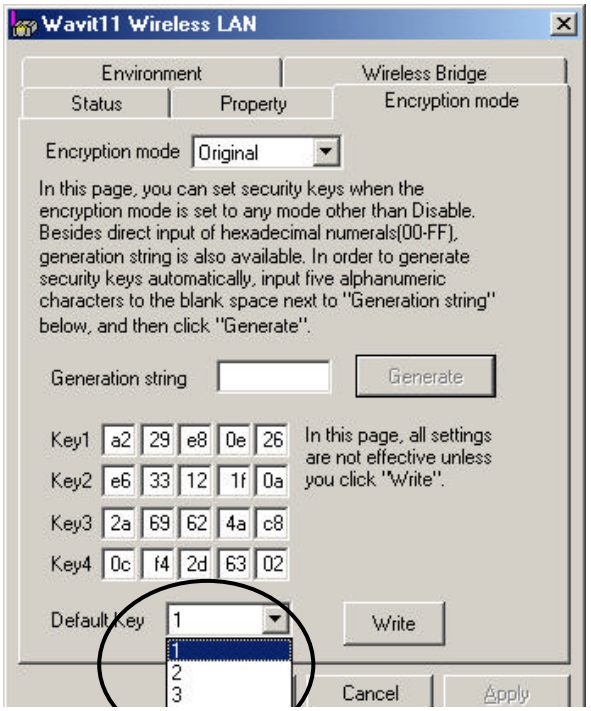
"Encryption Disable" page77

8.2. Original Encryption

[STEP1] At the “Encryption mode” page, select the “Original” as an Encryption mode, input a Generation string that generates encryption keys, and then click the “Generate” button.



[STEP2] Select the “Default Key”.



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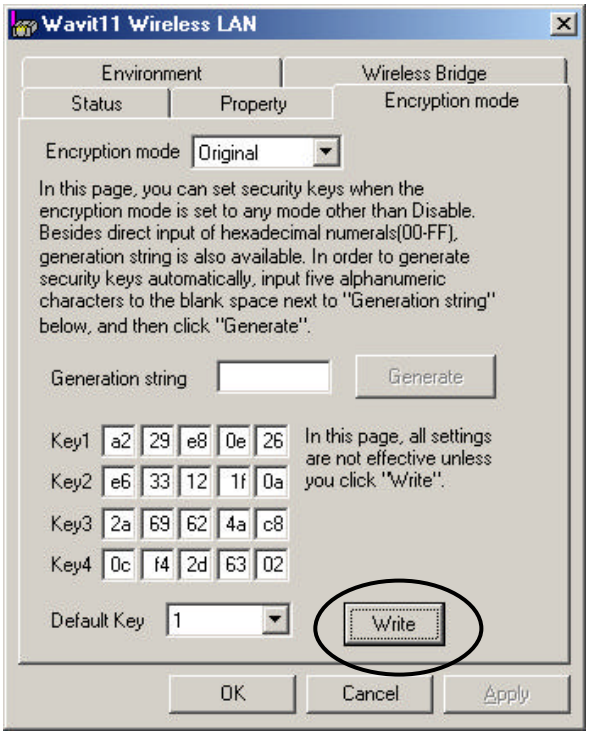
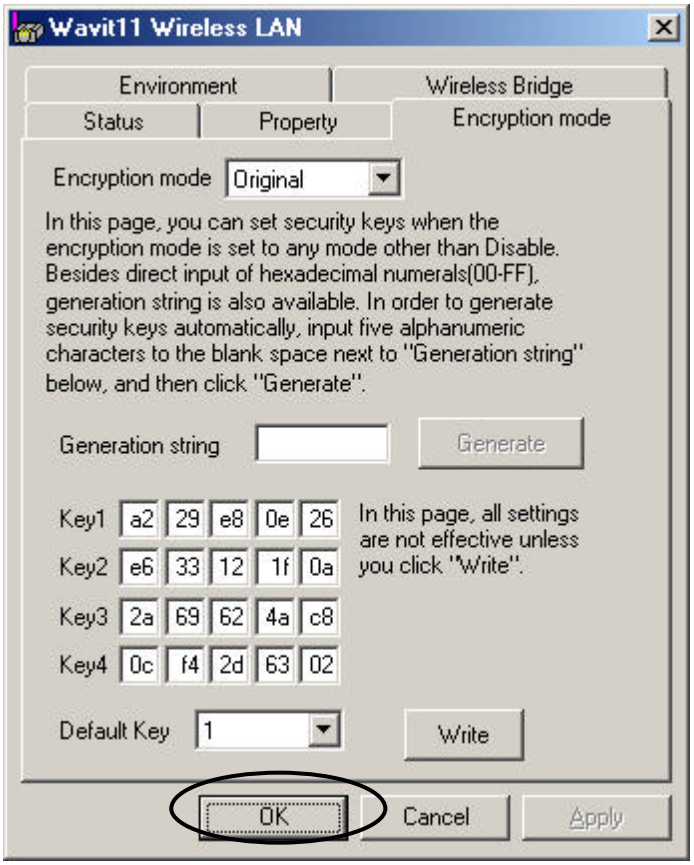
[STEP3] Click the “Write” button.

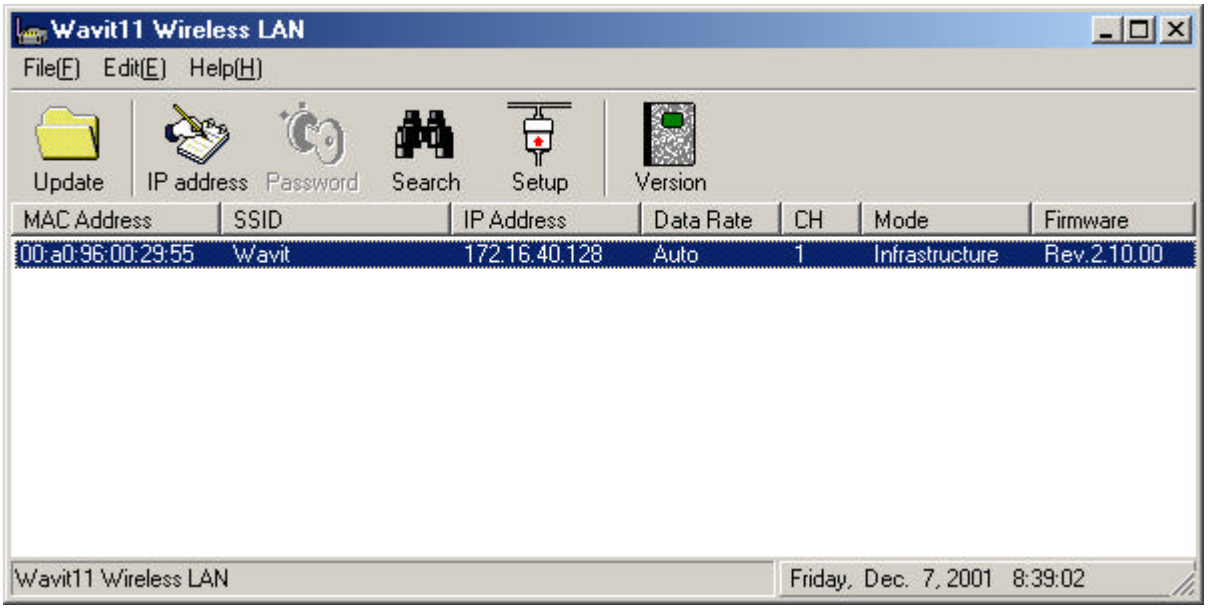


[STEP4] Click the “OK” button.

[STEP5] The Encryption mode and the Encryption keys are written. Click the "OK" button.

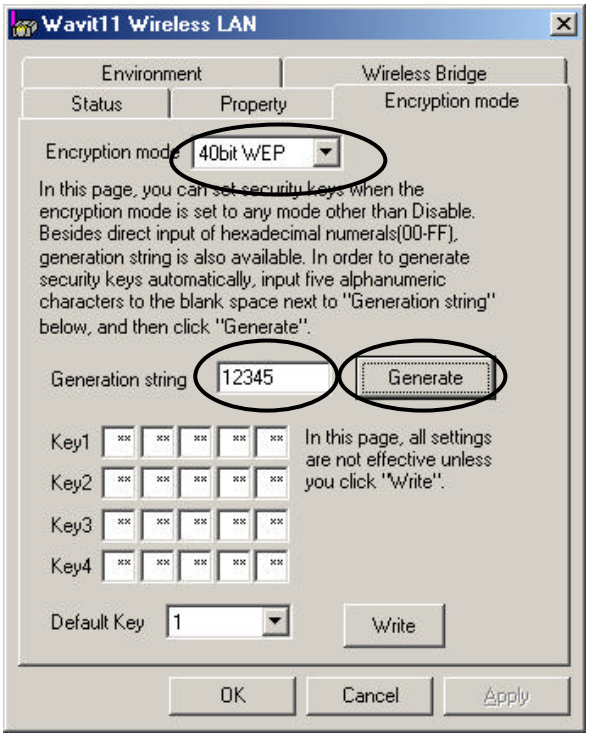


[STEP6] After returning to the "Wavit11 Wireless LAN" window, end the Wavit11 Configuration Utility.

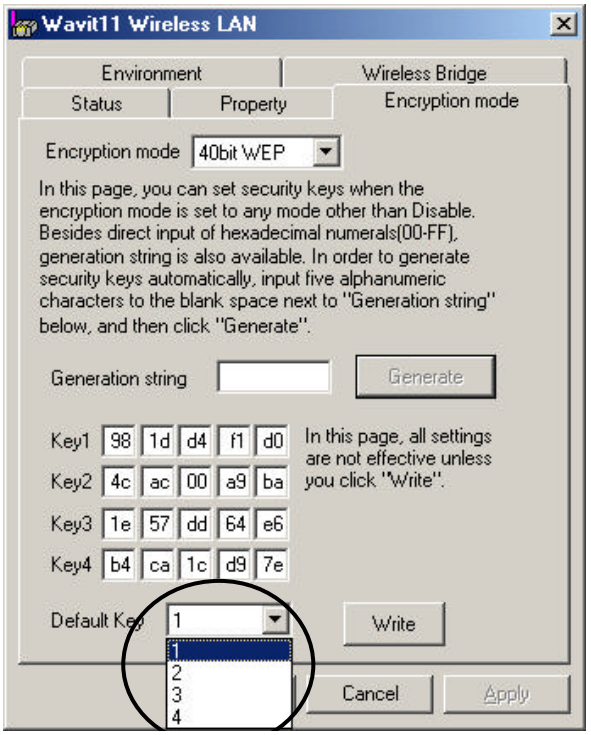


8.2. 40bit WEP Encryption

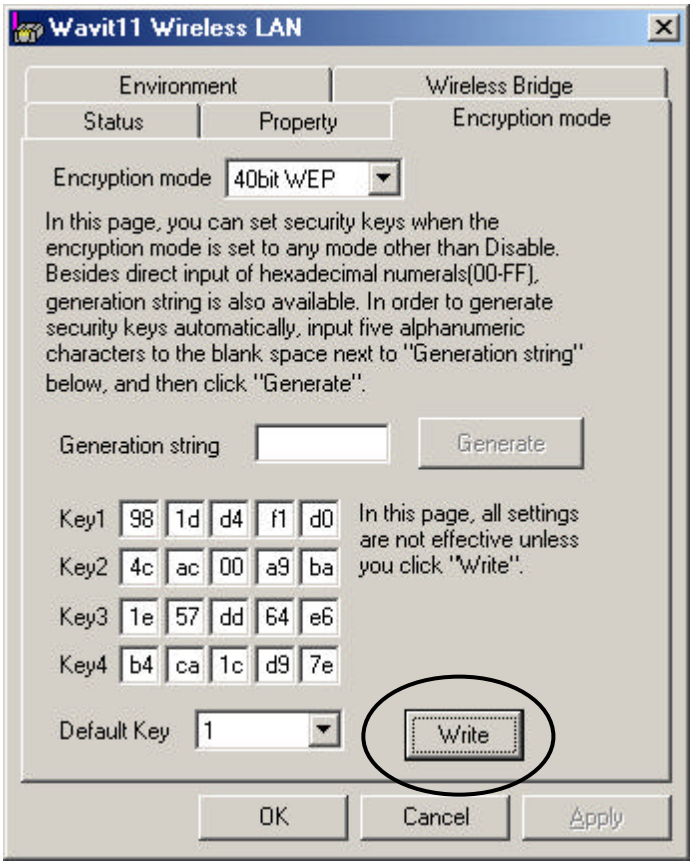
[STEP1] At the “Encryption mode” page, select the “40bit WEP” as an Encryption mode, input a Generation string that generates encryption keys, and then click the “Generate” button.



[STEP2] Select the “Default Key”.

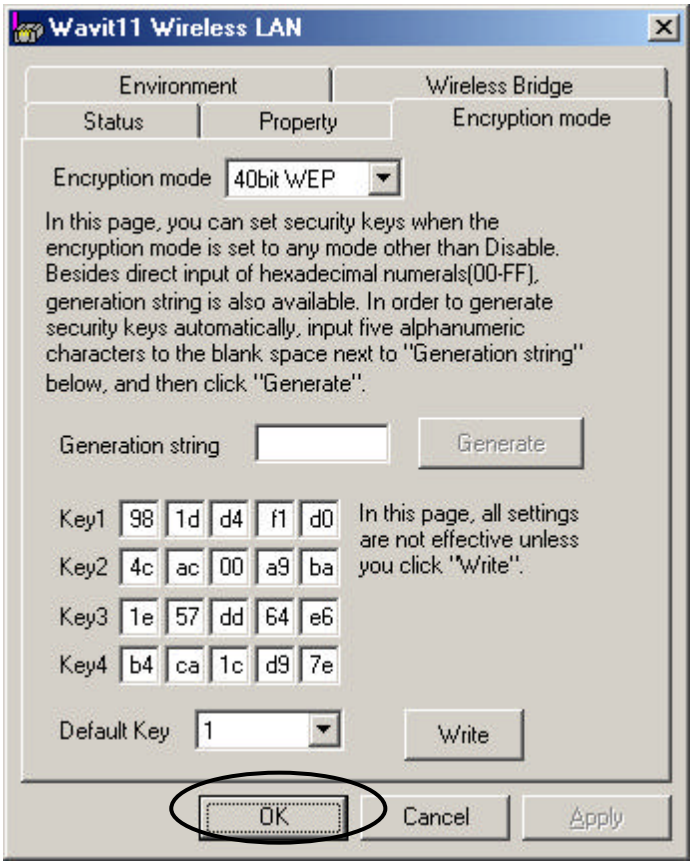


[STEP3] Click the “Write” button.

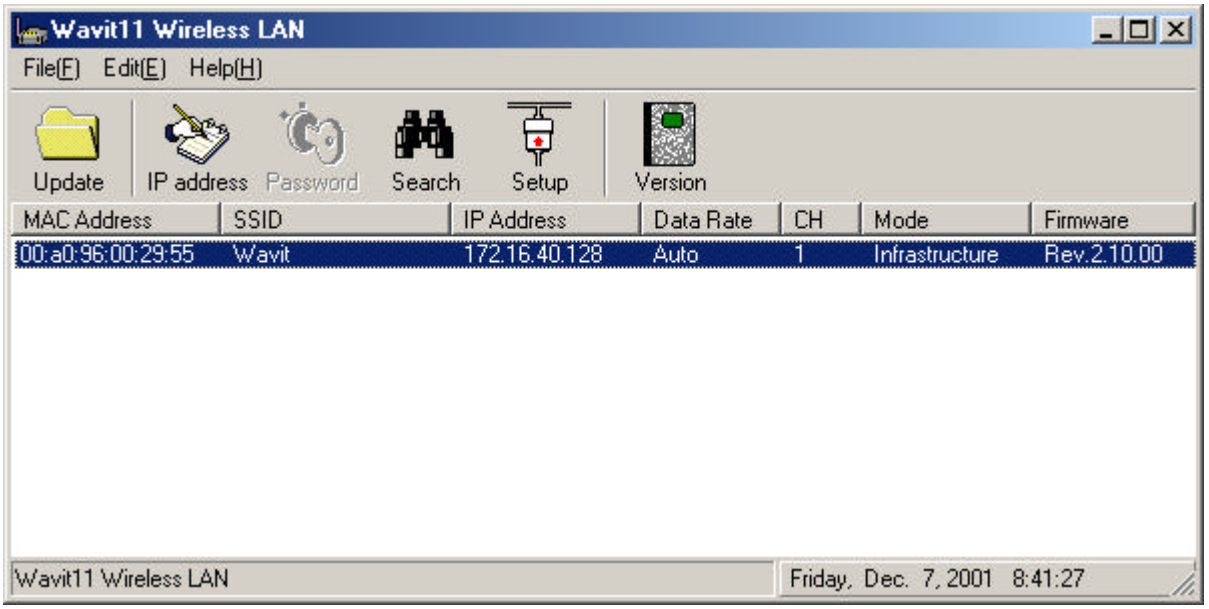


[STEP4] Click the “OK” button.

[STEP5] The Encryption mode and the Encryption keys are written. Click the "OK" button.

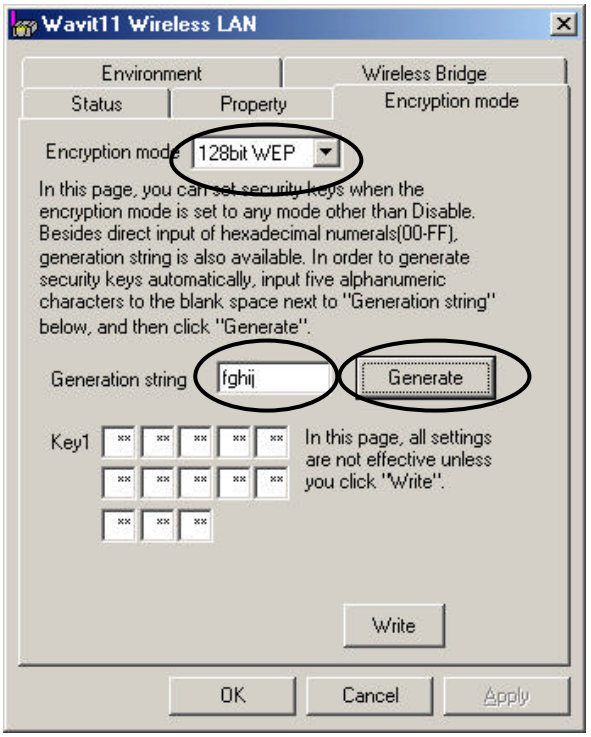


[STEP6] After returning to the " Wavit11 Wireless LAN" window, end the Wavit11 Configuration Utility.

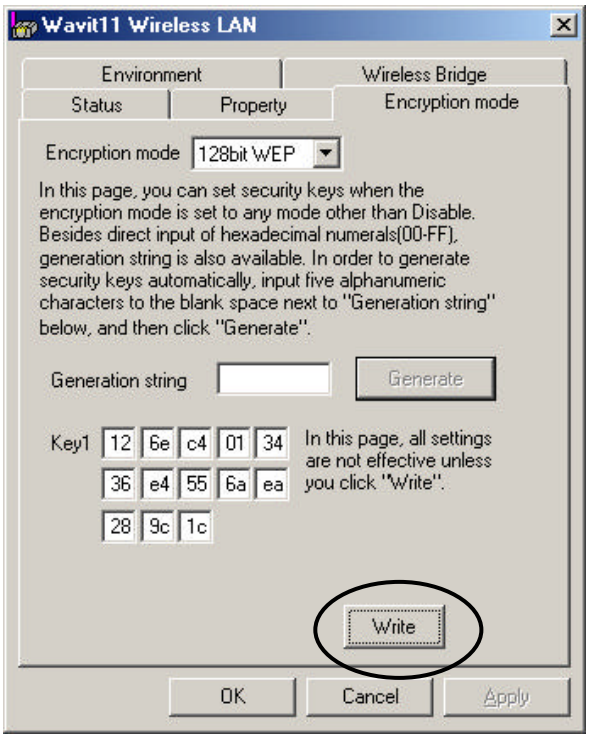


8.3. 128bit WEP Encryption

[STEP1] At the “Encryption mode” page, select the “128bit WEP” as an Encryption mode, input a Generation string that generates encryption key, and then click the “Generate” button.

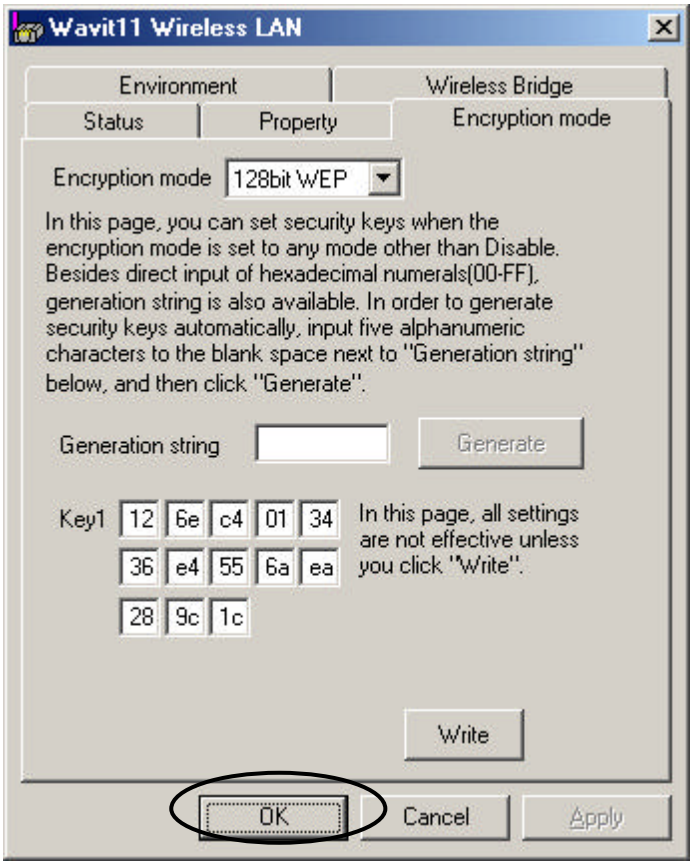


[STEP2] Click the “Write” button.

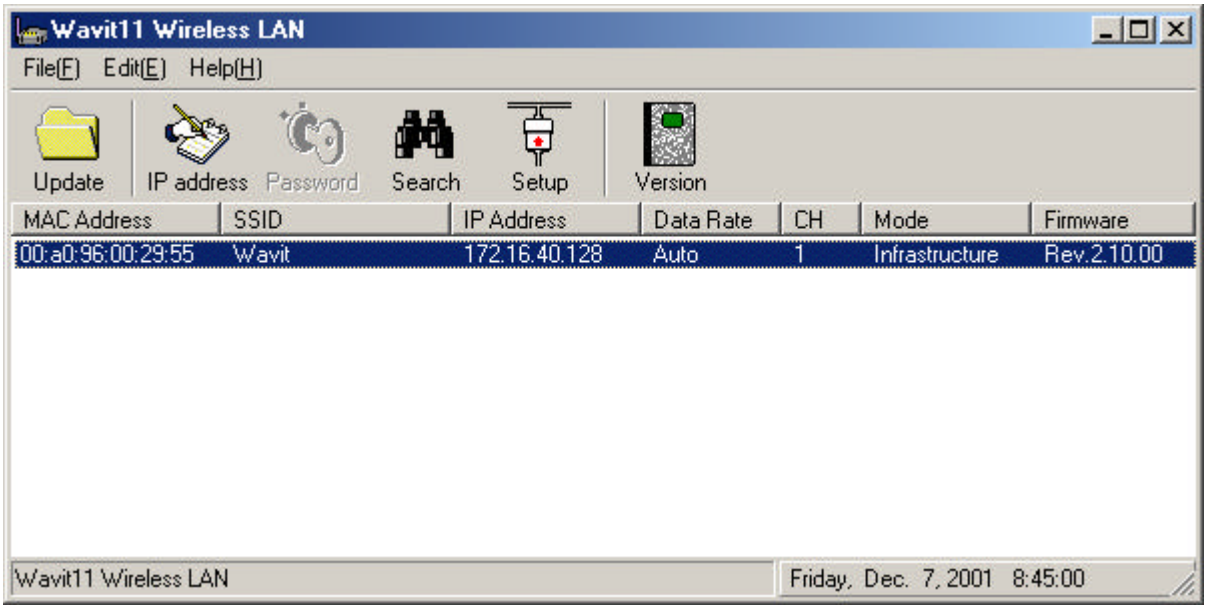


[STEP3] Click the “OK” button.

[STEP4] The Encryption mode and the Encryption key are written. Click the “OK” button.

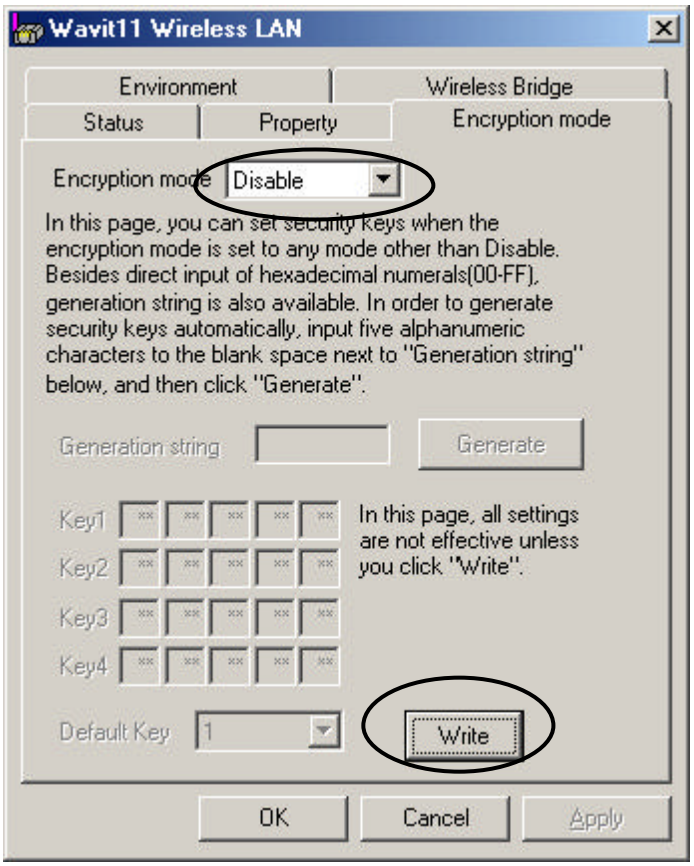


[STEP6] After returning to the “Wavit11 Wireless LAN” window, end the Wavit11 Configuration Utility.



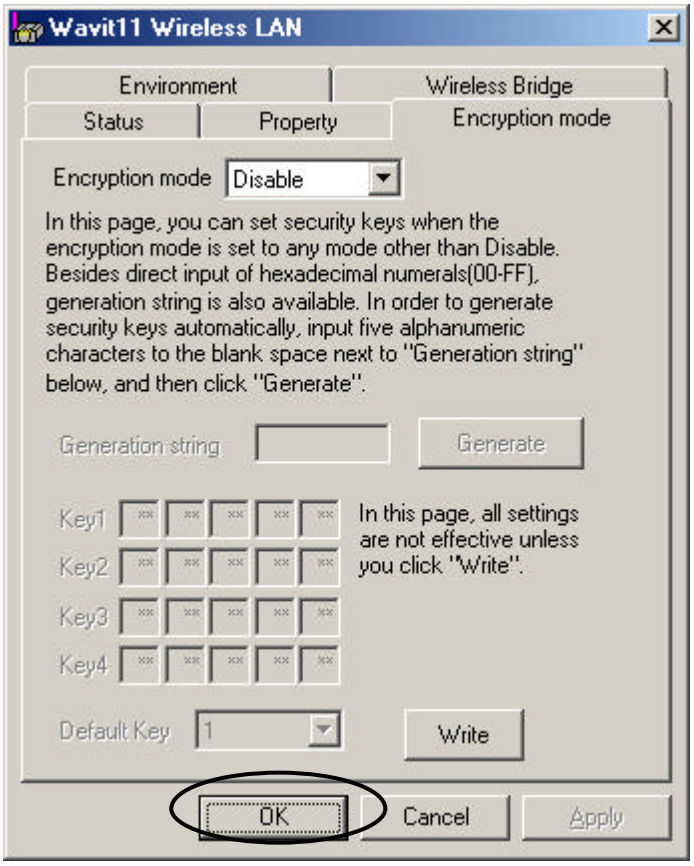
8.4. Encryption Disable

[STEP1] Select the “Disable” as an Encryption mode, and then click the “Write” button.

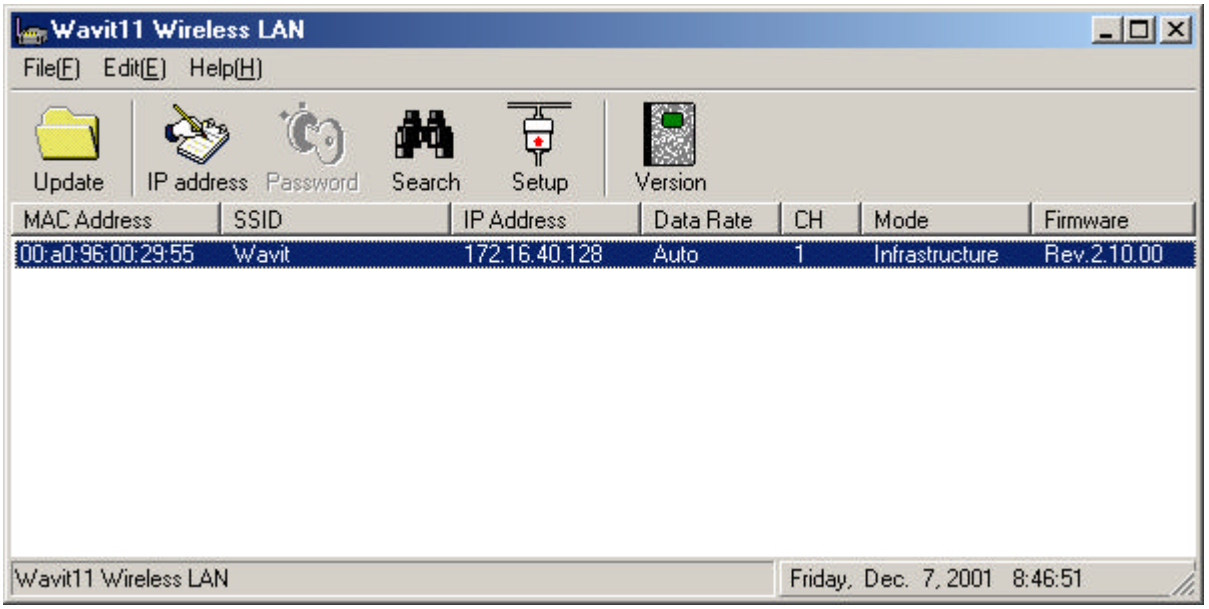


[STEP2] Click the “OK” button.

[STEP3] The Encryption mode is written. Click the “OK” button.



[STEP4] After returning to the “Wavit11 Wireless LAN” window, end the Wavit11 Configuration Utility.



9. Wavit11Setting up

“Connection to personal computer”	page80
“Connection to Printer”	page81
“Connection to Network Equipment”	page82

9.1. Connection to personal computer

[STEP1] Connect Wavit11 and the personal computer with a straight cable.
[STEP2] Connect the DC plug of the AC adapter to the Wavit11 DC jack.
[STEP3] Connect the AC adapter to the AC outlet.

The setup of Wavit11 must be completed in advance, or the setup can be done after [STEP3].

To connect to a personal computer, the following modes are recommended.

Ad-Hoc mode
802.11Ad-Hoc mode
Infrastructure mode

“Wavit11 Set Up” page33

9.2. Connection to Printer

[STEP1] Set the Wavit11 appropriately.
[STEP2] Connect Wavit11 and printer with a straight cable.
[STEP3] Connect the DC plug of the AC adapter to the Wavit11 DC jack.
[STEP4] Connect the AC adapter to the AC outlet.

The printer to connect to Wavit11 needs the Ethernet port.

The setup of Wavit11 must be completed in advance.

To connect to the printer, the following operational mode are recommended.

Ad-Hoc mode
802.11Ad-Hoc mode
Infrastructure mode

“Wavit11 Set Up” page33

9.3. Connection to Network Equipment

Example of the Network equipment is as follows.

HUB
Cable Modem
ADSL Modem
Router

[STEP1] Set the Wavit11 appropriately.
[STEP2] Connect Wavit11 and personal computer with a straight cable.
[STEP3] Connect the DC plug of the AC adapter to the Wavit11 DC jack.
[STEP4] Connect the AC adapter to the AC outlet.

The setup of Wavit11 must be completed in advance.

To connect to network equipment, the “AP” mode is recommended.

“Wavit11 Set Up” page33

10. Items that can be set with Configuration Utility

You can set the following items with the Wavit11 Configuration Utility.

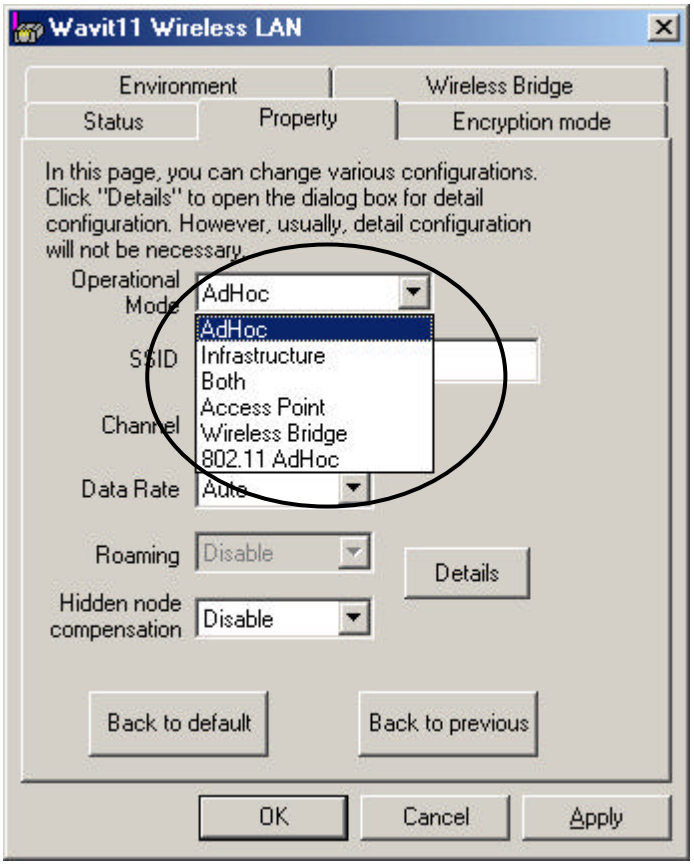
Items	Choice
Operational Mode	Ad-Hoc, Infrastructure, Both, AP, Wireless Bridge, 802.11Ad-Hoc
SS ID	Within 32 letters (ASCII code: 0x20 - 0x7e)
Channel	1-11
Data Rate	1M, 2M, 5.5M, 11M, Auto
Roaming	Enable/Disable
Hidden Node Compensation	Enable/Disable
RTS Threshold	0-2347, Default 2347
Fragmentation Threshold	256 –2346, Default 2346
Short Retry Limit	1-255, Default 7
Long Retry Limit	1-255, Default 4
Beacon Interval	20-1000 ms, Default 100
SSID Transmission	Enable/Disable
Authentication Algorithm	Open system/Shared Key
Basic Rate Set	1,2Mbps/1,2,5.5,11Mbps
Encryption Mode	Disable/Original/40bit WEP/128bit WEP
Encryption Key	5byte x 4, Default key
Default Key	1-4
Destination MAC Address	00-a0-96-xx-xx-xx

Normally, it is not necessary to change the following item setting. Check each item in this manual when modifying the setting.

RTS Threshold
Fragmentation Threshold
Short Retry Limit
Long Retry Limit
Beacon Interval
SSID Transmission
Authentication Algorithm
Basic Rate Set

10.1. Operational Mode

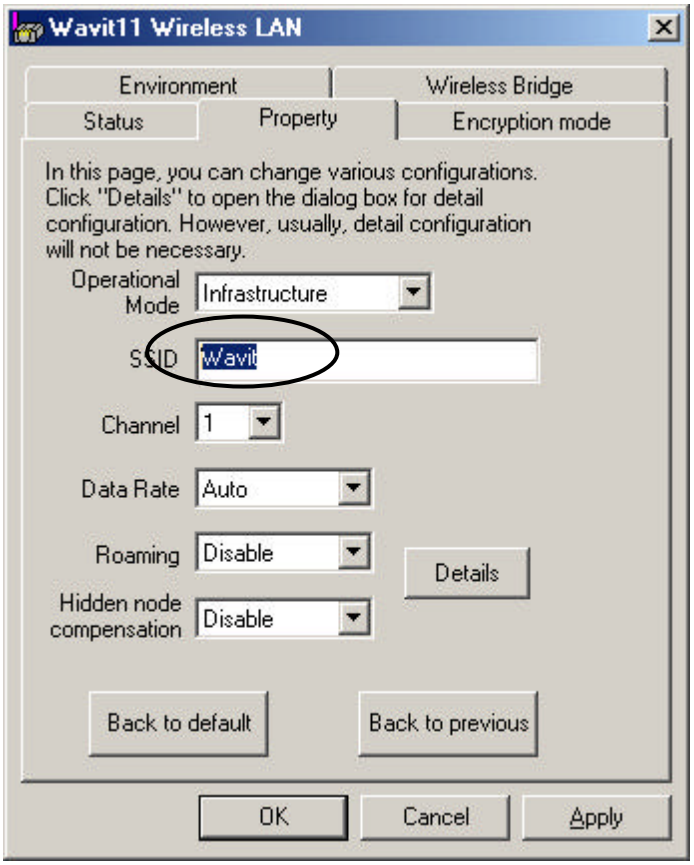
Select the operational mode for the Wavit11.



"About Wireless LAN Network" page 10

10.2. SS ID

It is a Network ID that indicates whole wireless LAN network.
Set any ASCII string: 32 characters max.

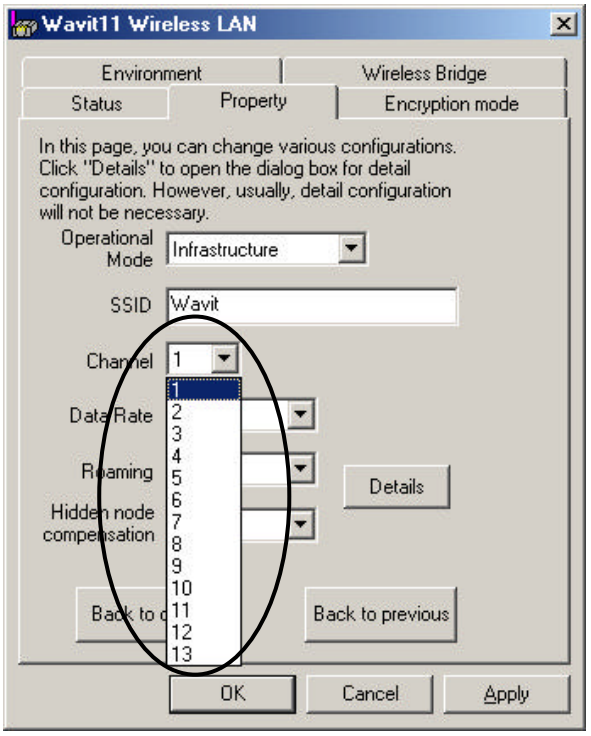


It will be necessary to set the same SSID to all Wavi11 in case of Infrastructure LAN.

It will be necessary to set the same SSID to all Wavit11 in case of IBSS LAN.

10.3. Channel

Set a channel Wavit11 uses.



Channel setting will be required in case of the following operational mode.

Ad-Hoc mode
Both mode
AP mode
Wireless Bridge mode

To configure several wireless LAN groups within a same area, a unique channel should be set per each group, and it is necessary to set each channel at the place 5 channels apart in order to avoid the interference between the wireless LANs. In the case 3 groups of the wireless LAN are configured in the close area, it will be necessary to make the setting at 1CH, 6CH and 11CH to the respective group.