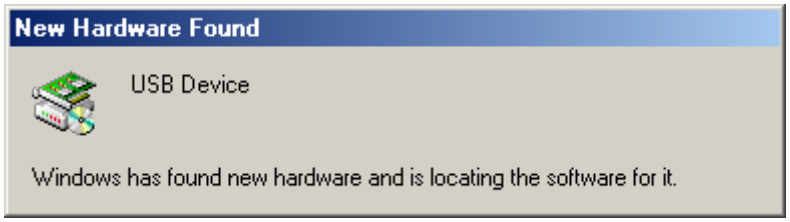
Product under Test: DWL-1500
H/w ver: A1
F/w: 1.4G7
OS: Win ME
Date: 26 Feb 2002
Tested by: Steven Sia

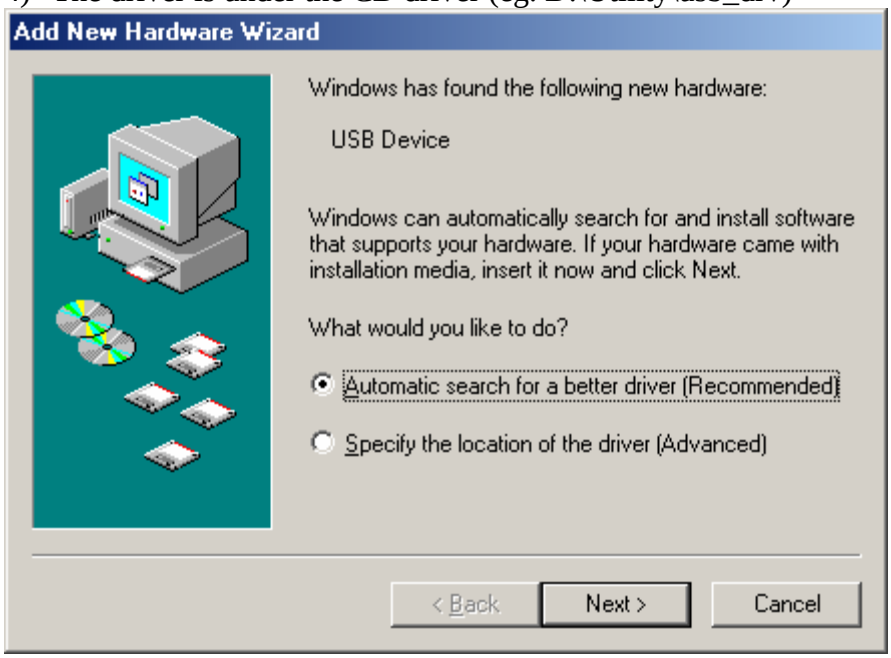
1) You need to install the Config Utilities from CD onto your Windows PC (XP, 2000, ME, 98, 98SE). The CD should autorun when you insert the CD. Else, double-click on AUTORUN.EXE on CD.

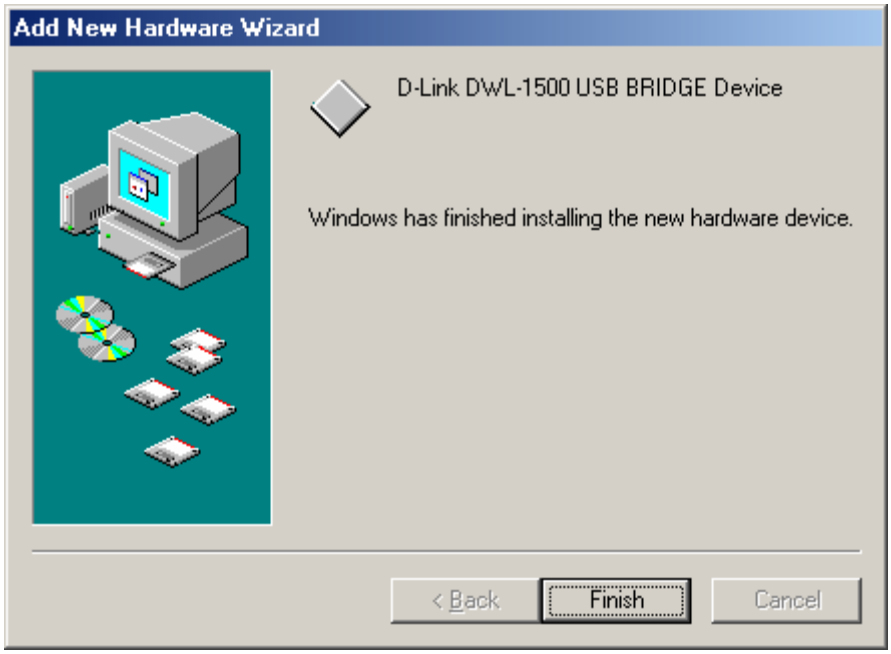
2) Power up DWL-1500 and connect the USB cable to the PC using the USB cable provided.

3) You will see:



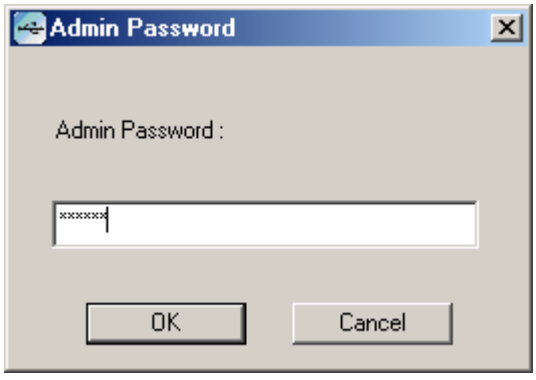
4) The driver is under the CD driver (eg. D:\Utility\usb_drv)

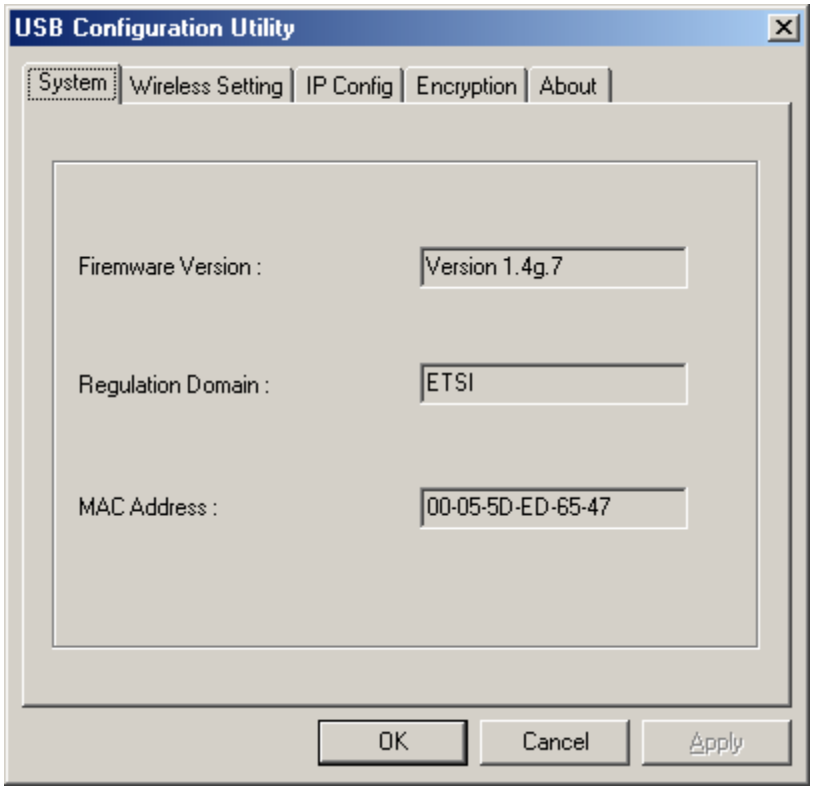


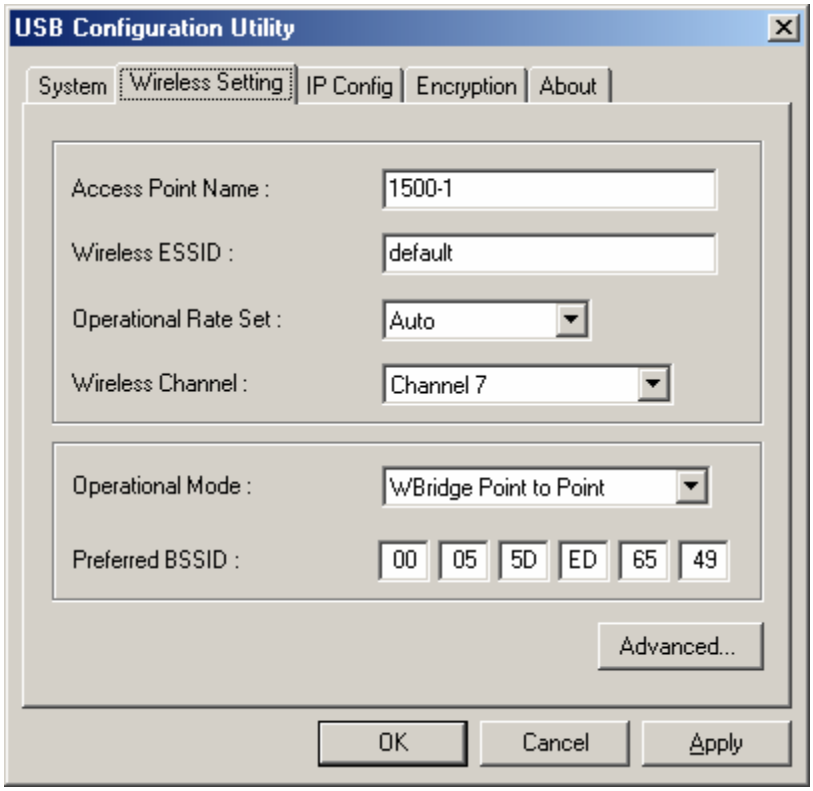


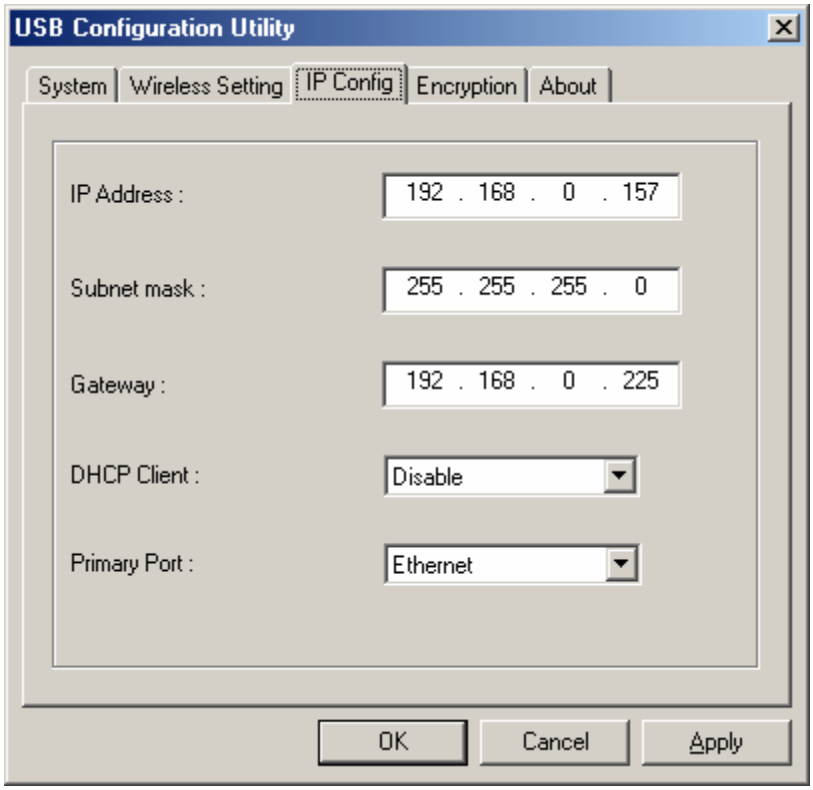
5) Goto Start > Programs > D-Link Wireless Bridge > USB Configuration Utility
Default Admin Password is “public” (without the quote).
Refer to User Manual for more details on different settings.
Example below is showing a WBridge Point to Point configuration between two DWL-1500
DWL-1500 #1:
IP address: 192.168.0.157
MAC Address: 00 05 5D ED 65 47
Connecting to my PC via cross-over cable.

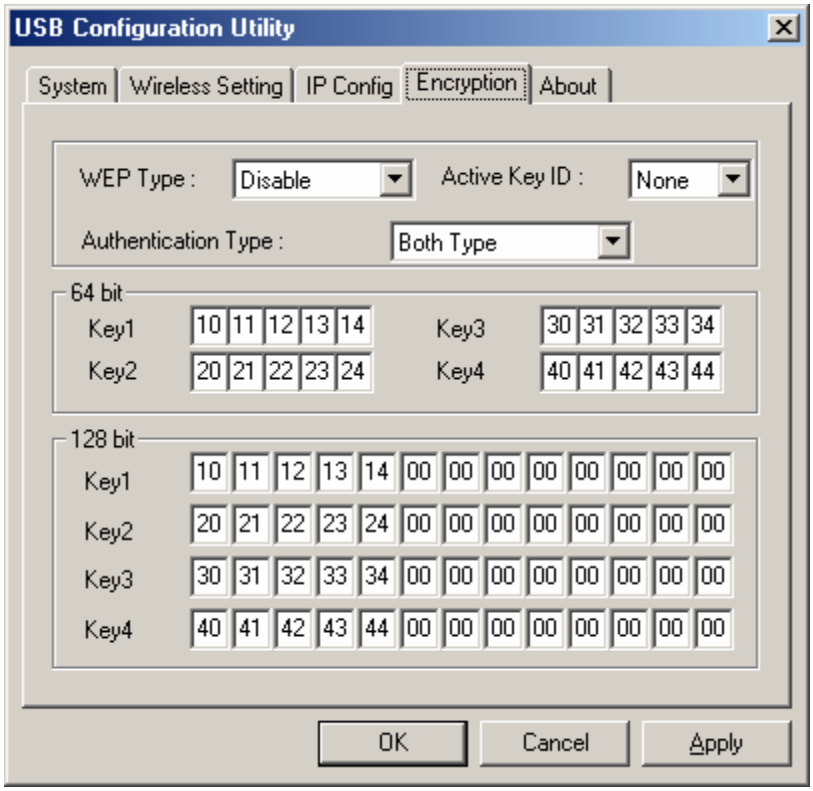
DWL-1500 #2:
IP address: 192.168.0.158
MAC Address: 00 05 5D ED 65 49
Connecting to the network switch via straight cable.




USB Configuration Utility
System
Wireless Setting
IP Config
Encryption
About
Firemware Version :
Version 1.4g.7
Regulation Domain :
ETSI
MAC Address :
00-05-5D-ED-65-47
OK
Cancel
Apply


USB Configuration Utility
System
Wireless Setting
IP Config
Encryption
About
Access Point Name :
1500-1
Wireless ESSID :
default
Operational Rate Set :
Auto
Wireless Channel :
Channel 7
Operational Mode :
WBridge Point to Point
Preferred BSSID :
00
05
5D
ED
65
49
Advanced...
OK
Cancel
Apply


USB Configuration Utility
System
Wireless Setting
IP Config
Encryption
About
IP Address :
192 . 168 . 0 . 157
Subnet mask :
255 . 255 . 255 . 0
Gateway :
192 . 168 . 0 . 225
DHCP Client :
Disable
Primary Port :
Ethernet
OK
Cancel
Apply


USB Configuration Utility
System
Wireless Setting
IP Config
Encryption
About
WEP Type :
Disable
Active Key ID :
None
Authentication Type :
Both Type
64 bit
Key1
10 11 12 13 14
Key3
30 31 32 33 34
Key2
20 21 22 23 24
Key4
40 41 42 43 44
128 bit
Key1
10 11 12 13 14 00 00 00 00 00 00 00 00
Key2
20 21 22 23 24 00 00 00 00 00 00 00 00
Key3
30 31 32 33 34 00 00 00 00 00 00 00 00
Key4
40 41 42 43 44 00 00 00 00 00 00 00 00
OK
Cancel
Apply

6) When done with all the settings, click Apply (wait for 20 sec), then OK (wait for the window to close by itself).

Testing results:
- PC connected on to 1500 #1 can ping to all network connected on 1500 #2.
- Testing if under Point-to-Point, the DWL-1500 still can act as an AP for local wireless PC or not? Answer: NO. Manual page 25 info is wrong.

~~ End of Point-to-Point configuratioin ~~

7) Now, testing setting 1500 #1 to Point-to-Multi-point mode and see if it can still communicate with 1500 #2 (Point-to-Point) or not? Answer: YES.

Findings: IP address MUST be set via USB link before SNMP Utility could be used. When setting the mode using SNMP Utility, then click on System Reset button, it does save the settings to the unit straight away but it does not seem to power-restart itself as well. This might be fine because there are still PING replies.
When connecting USB cable to the 1500, double-check settings, then click OK, the unit is giving PING time-out. The PING recovers as soon as the USB cable is disconnected. But then, plug the USB cable in once again. This time, it only has one PING time-out and PING replies are fine again. Unplug the USB cable, still fine. After a while, PING time-out, then recovers again. Overall, it is fine with USB cable connected or unplugged.

8) Now, see if local wireless PC (in Infrastructure mode) can see 1500 #1 or not? Answer: NO.

9) Now, set 1500 #2 to AP mode (using SNMP) to see if Wireless PC can see it or not? Answer: YES.

10) In this case, Can 1500 #1 see 1500 #2? Answer: Of course NOT!

11) Now, testing setting 1500 #2 to Point-to-Multi-point to see if both 1500 can still see one another. (It should still be OK). Answer:

12) In this case, can wireless PC see 1500 #2 or not? Answer: NO.

13) Now, set 1500 #2 to AP again, then set 1500 #1 to AP client mode. Should be fine. Answer: YES.

14) Of course, the wireless PC can find 1500 #2 fine.

Other findings: SNMP Utility changes (which have been applied) will NOT be saved if it is not System Reset from System tab. So, you need to Apply AND System Reset for the changes to be saved. Meanwhile, USB Utility changes are saved when you click Apply.

Conclusion:
DWL-1500 will only communicate to wireless stations when it is in AP mode.
In WBridge Point to Point OR WBridge Point to Multipoint, it will only communicate with another WBridge.