

# Hardware installation:

## Front Panel WBR 3402:

### Panel Layout

Annex A

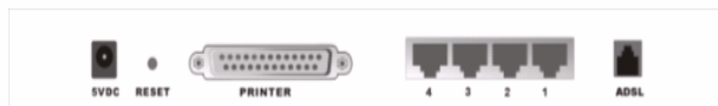


Annex B/UR-2

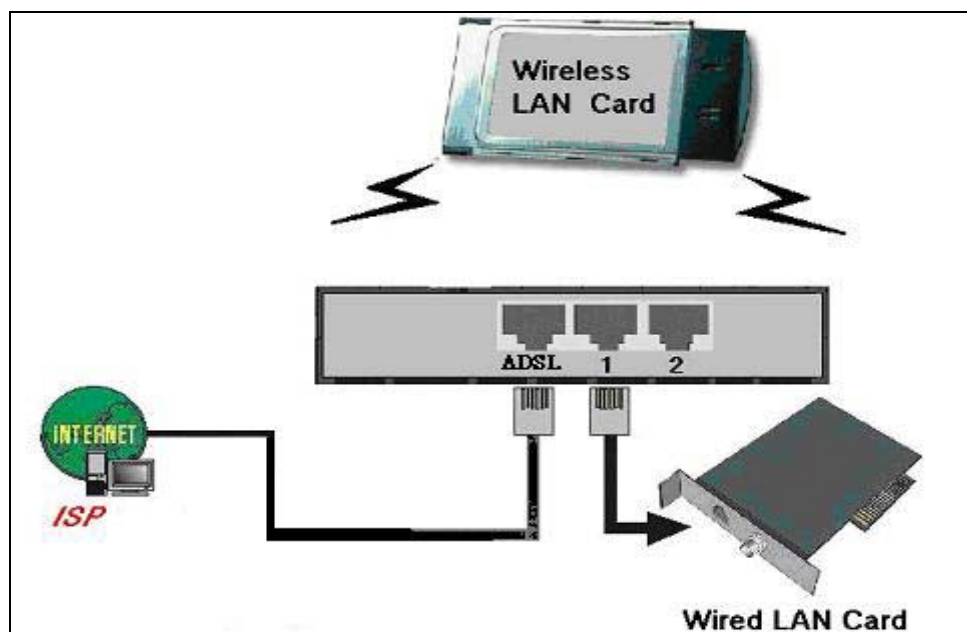


LED	Function	Color	Status	Description
Power	Power indication	green	on	Power is being applied to this product.
M1	System status 1	green	blinking	This product is functioning properly.
SH-Time	ADSL Status 1	green	on	The ADSL is linked
			blinking	This router is trying to connect to your ISP
WLAN	Wireless activity	green	blinking	Sending or receiving data via wireless
ADSL-Act	ADSL Status 2	green	blinking	The ADSL is sending or receiving data.
L1 – L4	Link Status	green	on	An active station is connected to the corresponding LAN port.
			blinking	The corresponding LAN port is sending or receiving data.

## Rear Panel WBR 3402:



Port	Description
5VDC	Power inlet: DC 5V, 2A (minimum)
RESET	To reset system settings to factory defaults, please follow the steps: <ol style="list-style-type: none"><li>1. Power off the device,</li><li>2. Press the reset button and hold,</li><li>3. Power on the device,</li><li>4. Keep the button pressed and watch the M1 LED, when they flash 8 times then release the reset button.</li></ol>
PRINTER	Printer Port
Port 1-4	The ports where you will connect networked computers and other devices.
ADSL	The port where you will connect your phone jack.



### Procedure for Hardware Installation

#### 1. Setup ADSL connection

Prepare an telephone cable for connecting this product to your ISP. Figure 2-3 illustrates the ADSL connection.

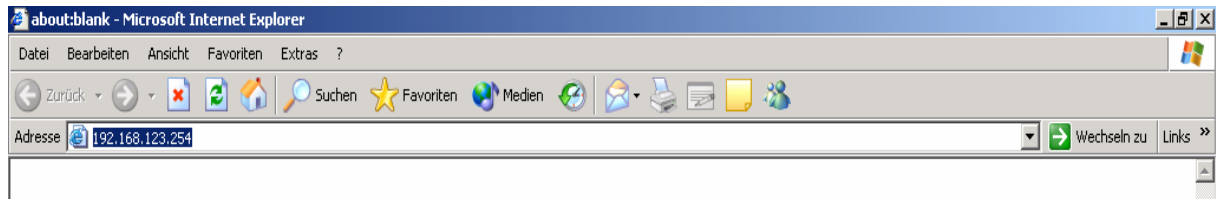
#### 2. Connecting this product with your printer (optional)

Use the printer cable to connect your printer to the printer port of this product. (Optional)

#### 3. Power on

Connecting the power cord to power inlet and turning the power switch on, this product will automatically enter the self-test phase. When it is in the self-test phase, the indicators M1 will be lighted ON for about 10 seconds, and then M1 will be flashed 3 times to indicate that the self-test operation has finished. Finally, the M1 will be continuously flashed once per second to indicate that this product is in normal operation.

# Quick-Install (Software)

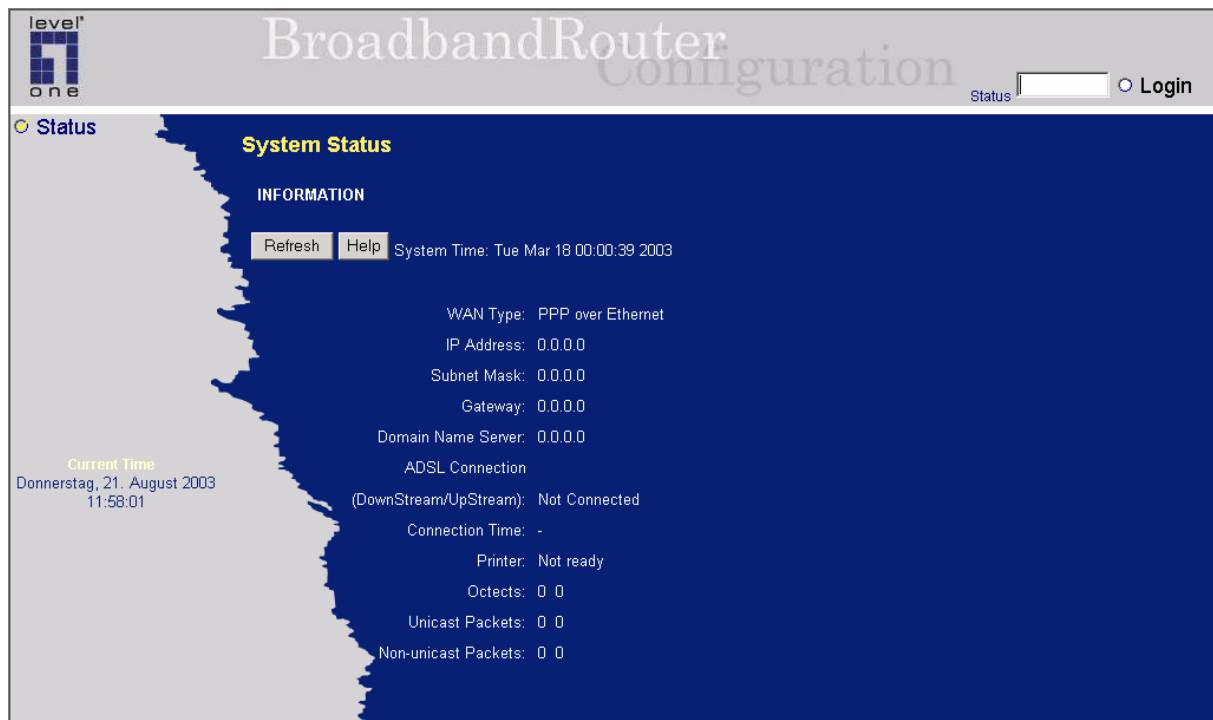


If the router is functioning properly ( look at description of the front panel), wait 2 until 5 minutes for the dsl-signal to synchronize with ISP.

Activate your browser. Then, type this product's IP address in the *Location* (for Netscape) or *Address* (for IE) field and press ENTER ( IP: **192.168.123.254**.)

After the connection is established, you will see the web user interface of this product.

To log in as an administrator, enter the system password (the factory setting is "**admin**") in the **System Password** field and click on the **Log in** button. If the password is correct, the web appearance will be changed into administrator configure mode. As listed in its main menu, there are several options for system administration.



level one **BroadbandRouter** Configuration  
 Status/ Wizard/ Basic Setting/ Forwarding Rules/ Security Setting/ Advanced Setting/ Toolbox

**Status**

### System Status

**INFORMATION**

ADSL Modem Status View Log... Clients List...  
 Refresh Help System Time: Tue Mar 18 00:05:28 2003

WAN Type: PPP over Ethernet  
 IP Address: 0.0.0.0  
 Subnet Mask: 0.0.0.0  
 Gateway: 0.0.0.0  
 Domain Name Server: 0.0.0.0

ADSL Connection  
 (DownStream/UpStream): Not Connected  
 Connection Time: -

Printer: Not ready  
 Octects: 0 0  
 Unicast Packets: 0 0  
 Non-unicast Packets: 0 0

**Current Time**  
 Donnerstag, 21. August 2003  
 12:02:44

press „ADSL Modem Status“

level one **BroadbandRouter** Configuration  
 Status/ Wizard/ Basic Setting/ Forwarding Rules/ Security Setting/ Advanced Setting/ Toolbox

**Status**

### ADSL modem Status

Item	Information
Firmware version	13.9.22
Line Type	
Line Coding	UR2
Line Status	Wait for Activating
ADSL Link Time	00:00:00

Item	DownStream	UpStream
Channel Bit Rate(Kbps)	0	0
Relative Capacity Occupation(%)	0	0
Noise Margin(dB)	0.0	0.0
Output Power(dBm)	0.0	0.0
Attenuation(dB)	0.0	0.0

**Current Time**  
 Donnerstag, 21. August 2003  
 14:53:19

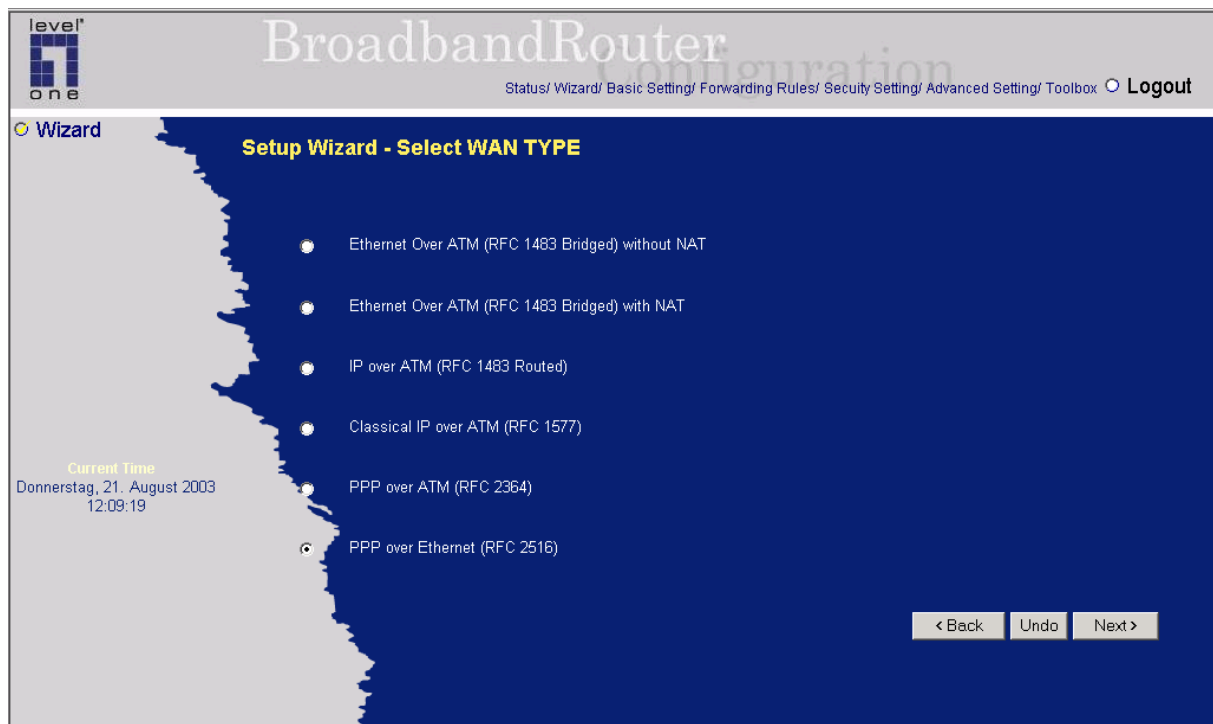
Change the line Coding scheme to „UR2“ .  
 press „ Back“.

The screenshot shows the 'System Status' page of the BroadbandRouter configuration interface. The page has a dark blue background with a light blue sidebar on the left. The sidebar contains a 'Status' menu item. The main content area is titled 'System Status' and includes an 'INFORMATION' section. At the top of this section are three buttons: 'ADSL Modem Status', 'View Log...', and 'Clients List...'. Below these are 'Refresh' and 'Help' buttons, followed by the text 'System Time: Tue Mar 18 00:06:15 2003'. The status information is as follows: WAN Type: PPP over Ethernet; IP Address: 0.0.0.0; Subnet Mask: 0.0.0.0; Gateway: 0.0.0.0; Domain Name Server: 0.0.0.0. Under the 'ADSL Connection' section, it shows '(DownStream/UpStream): Not Connected' and 'Connection Time: .' with a 'Connect' button. Other status items include 'Printer: Not ready', 'Octects: 0 0', 'Unicast Packets: 0 0', and 'Non-unicast Packets: 0 0'. On the left side of the main content area, there is a 'Current Time' section showing 'Donnerstag, 21. August 2003 14:56:02'. The top navigation bar includes the 'level one' logo, the title 'BroadbandRouter Configuration', and a breadcrumb trail: 'Status/ Wizard/ Basic Setting/ Forwarding Rules/ Security Setting/ Advanced Setting/ Toolbox' followed by a 'Logout' link.

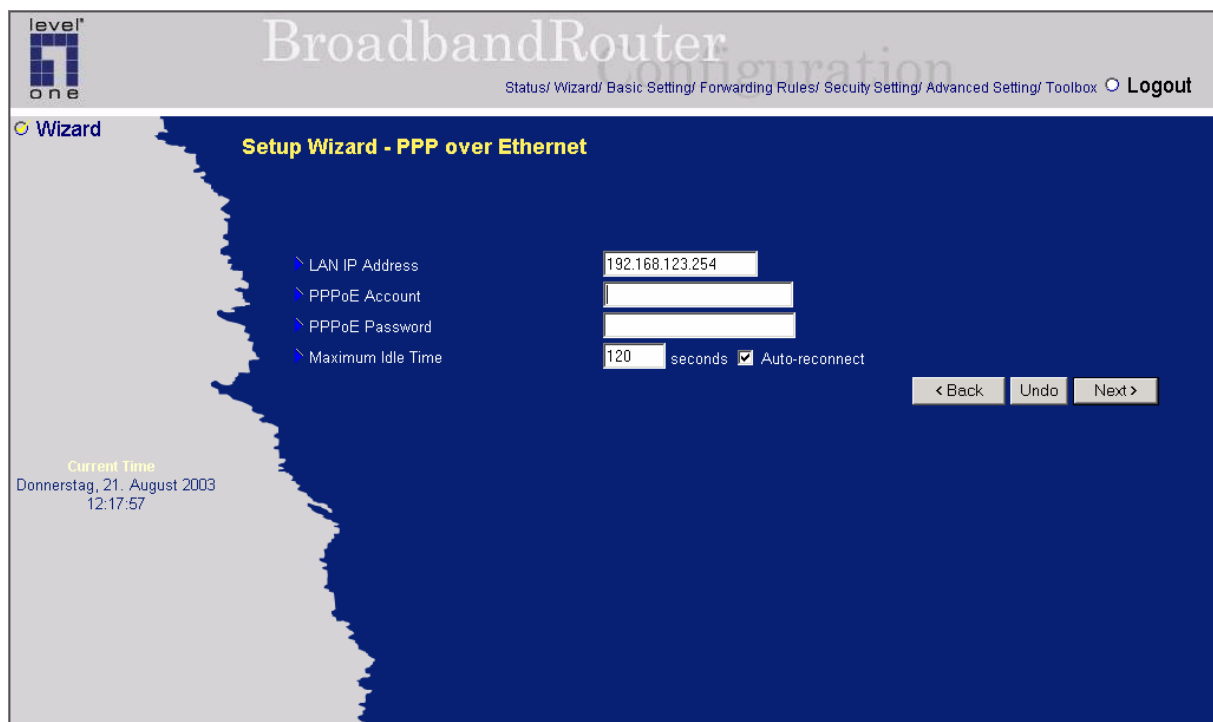
press „Wizard“ in the headline.

The screenshot shows the 'Setup Wizard' page of the BroadbandRouter configuration interface. The page has a dark blue background with a light blue sidebar on the left. The sidebar contains a 'Wizard' menu item. The main content area is titled 'Setup Wizard' and includes the text 'Setup Wizard will guide you through a basic configuration procedure step by step.' and a 'Next>' button. On the left side of the main content area, there is a 'Current Time' section showing 'Donnerstag, 21. August 2003 12:07:13'. The top navigation bar includes the 'level one' logo, the title 'BroadbandRouter Configuration', and a breadcrumb trail: 'Status/ Wizard/ Basic Setting/ Forwarding Rules/ Security Setting/ Advanced Setting/ Toolbox' followed by a 'Logout' link.

Setup Wizard will guide you through a basic configuration procedure step by step.  
Press "Next >"



Activate „PPP over Ethernet (RFC 2516).  
press „Next“ to continue.



**Lan IP Address:**

The default IP address of WBR-2401 is 192.168.123.254

**PPPoE Account/Password:**

The account ID & password provided by your ISP.

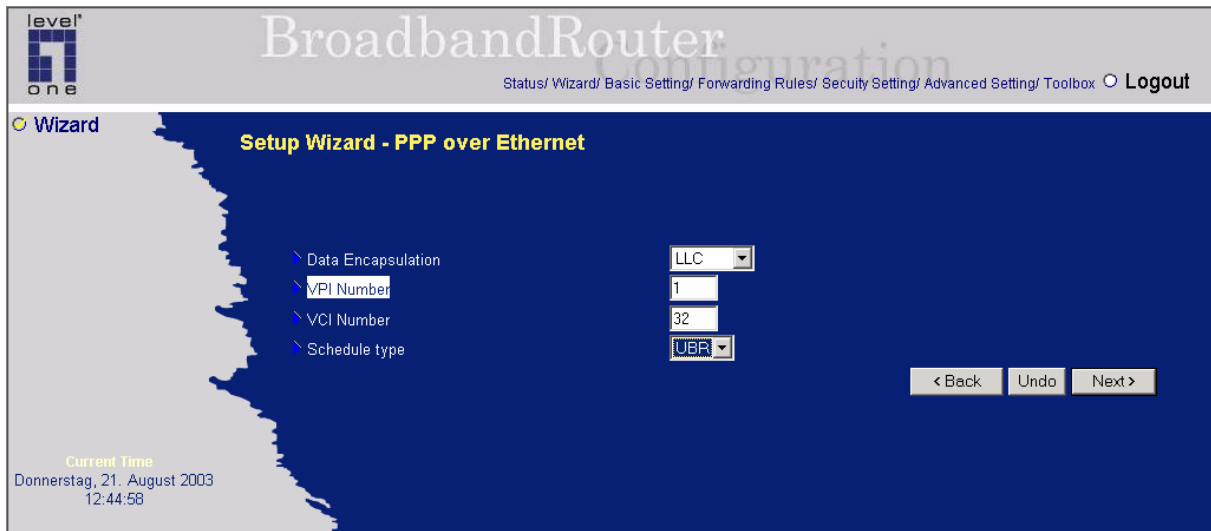
(For T-Online user use as follow:

Anschlusskennung, T-Onlinenummer und Mitbenutzersuffix + @t-online.de  
(example: 1234567890121234567890120001@t-online.de))

**Maximum Idle Time:**

The time of no activity disconnect to your PPPoE session. You can also set it to zero or enable Auto-reconnect to disable this feature. If Auto-reconnect is enabled, this product will automatically connect to ISP after system is restarted or connection is dropped.

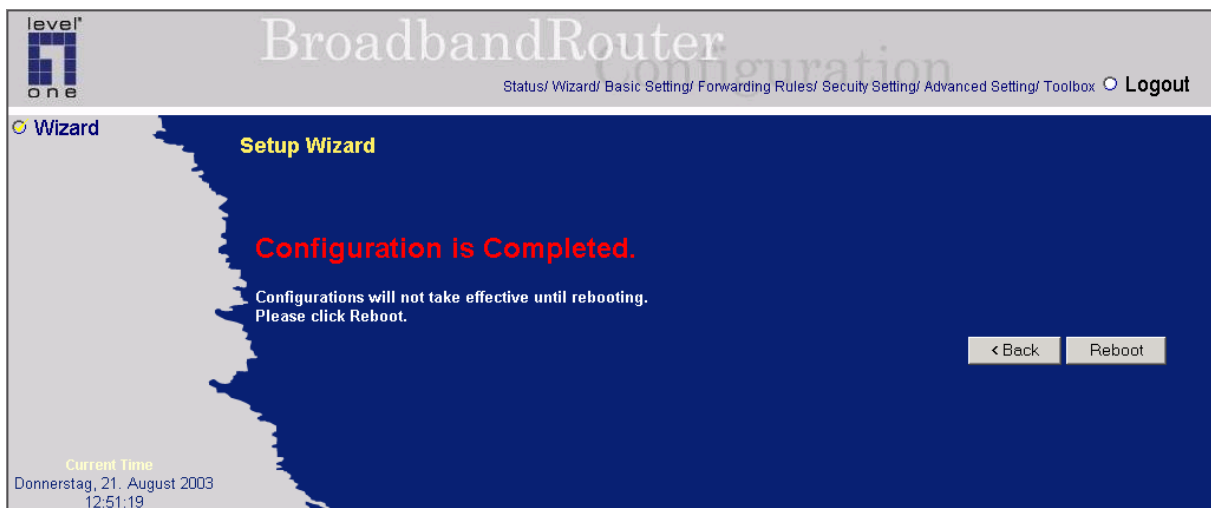
Press “next” to continue.



Change the items as follow:

Data Encapsulation:	LLC
VPI Number:	1
VCI Number:	32
Schedule type:	UBR

**Press “next” to continue.**



The main-configuration is completed.  
Configuration will not take effective until rebooting.  
Please click Reboot

level one **BroadbandRouter** Configuration  
 Status/ Wizard/ Basic Setting/ Forwarding Rules/ Security Setting/ Advanced Setting/ Toolbox  Logout

Wizard **Setup Wizard**

**Configuration is Completed.**

Configurations will not take effect. Please click Reboot.

Microsoft Internet Explorer  
 Reboot right now?

< Back

Current Time  
 Donnerstag, 21. August 2003  
 12:53:59

Press „OK“

level one **BroadbandRouter** Configuration  
 Status/ Wizard/ Basic Setting/ Forwarding Rules/ Security Setting/ Advanced Setting/ Toolbox  Logout

Wizard **Restarting**

Wait a moment to reconnect...

Current Time  
 Donnerstag, 21. August 2003  
 12:56:07

## Wireless LAN configuration:

level one **BroadbandRouter** Configuration  
 Status   Login

Status **System Status**

INFORMATION  
  System Time: Tue Mar 18 00:58:55 2003

WAN Type: PPP over Ethernet  
 IP Address: 0.0.0.0  
 Subnet Mask: 0.0.0.0  
 Gateway: 0.0.0.0  
 Domain Name Server: 0.0.0.0

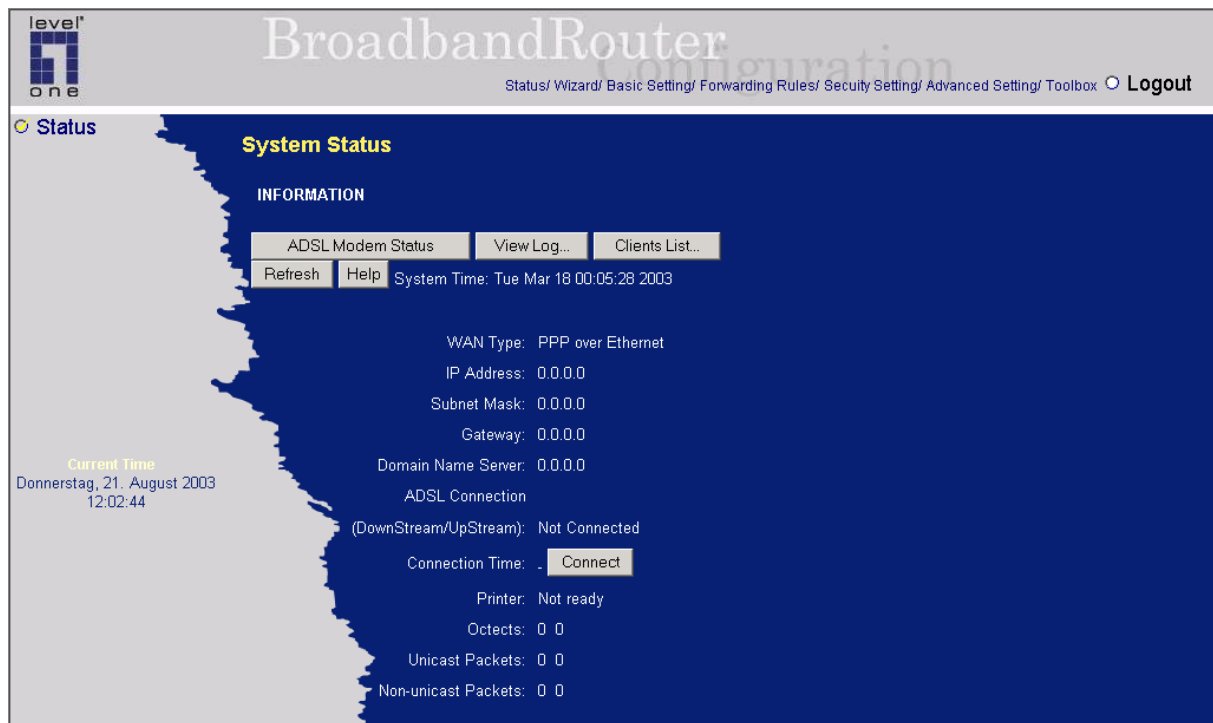
ADSL Connection  
 (DownStream/UpStream): Not Connected  
 Connection Time: -  
 Printer: Not ready  
 Octects: 0 0  
 Unicast Packets: 0 0  
 Non-unicast Packets: 0 0

Current Time  
 Donnerstag, 21. August 2003  
 12:56:59



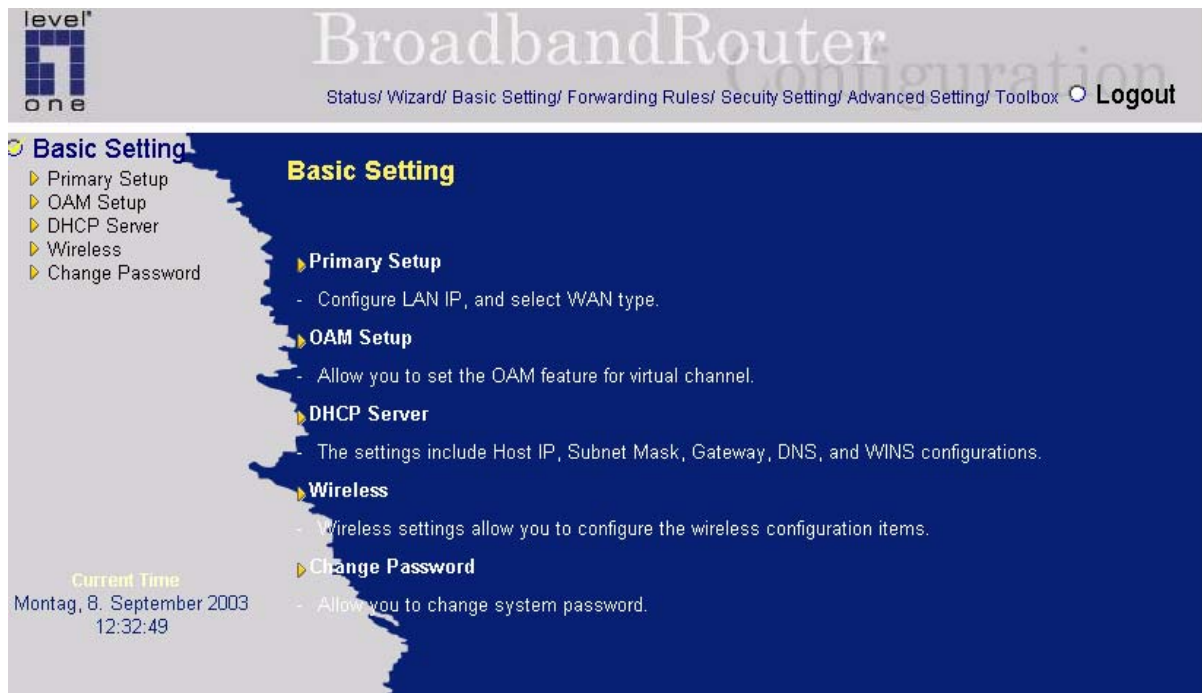
Login as administrator again (type “admin” in Login field and press enter).

A new window opens as follow:



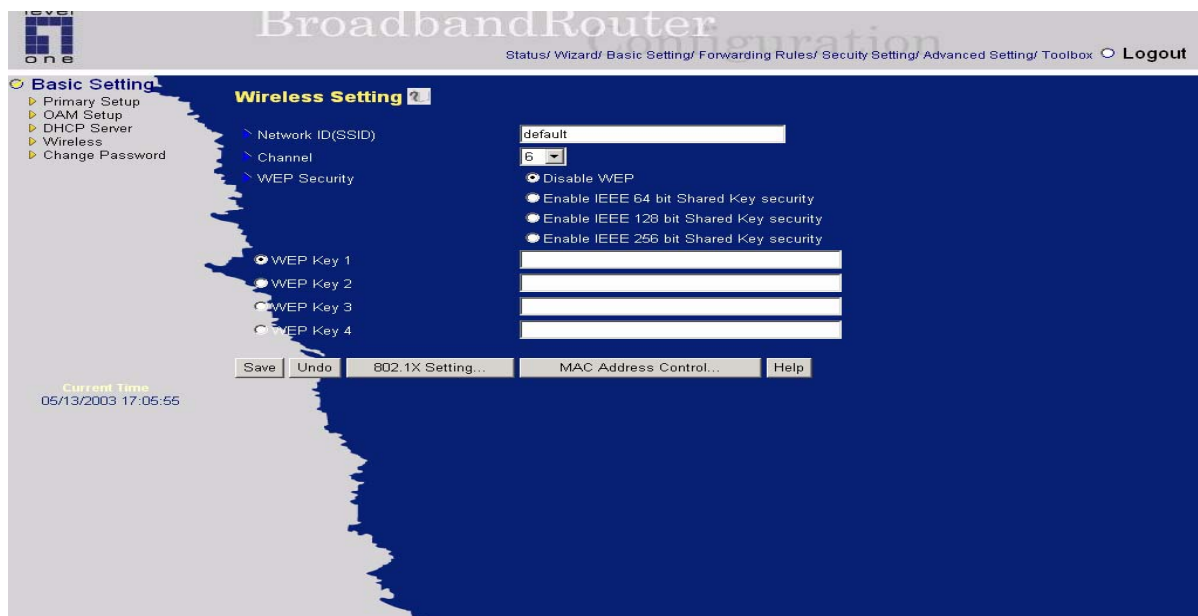
The screenshot shows the 'BroadbandRouter' configuration interface. The top navigation bar includes 'level one' logo, the title 'BroadbandRouter', and a menu with 'Status/ Wizard/ Basic Setting/ Forwarding Rules/ Security Setting/ Advanced Setting/ Toolbox' and a 'Logout' button. The main content area is titled 'System Status' and contains an 'INFORMATION' section. This section includes buttons for 'ADSL Modem Status', 'View Log...', and 'Clients List...', along with 'Refresh' and 'Help' buttons. The system time is 'Tue Mar 18 00:05:28 2003'. Network parameters are listed: WAN Type: PPP over Ethernet, IP Address: 0.0.0.0, Subnet Mask: 0.0.0.0, Gateway: 0.0.0.0, and Domain Name Server: 0.0.0.0. The ADSL Connection status is '(DownStream/UpStream): Not Connected' with a 'Connect' button. Other status items include Printer: Not ready, Octects: 0 0, Unicast Packets: 0 0, and Non-unicast Packets: 0 0. A 'Current Time' box on the left shows 'Donnerstag, 21. August 2003 12:02:44'.

press „ Basic Setting“ in the headline



The screenshot shows the 'BroadbandRouter' configuration interface with the 'Basic Setting' page selected. The top navigation bar is identical to the previous screenshot. The main content area is titled 'Basic Setting' and features a left-hand sidebar with a tree view containing 'Primary Setup', 'OAM Setup', 'DHCP Server', 'Wireless', and 'Change Password'. The main content area lists these settings with brief descriptions: 'Primary Setup' (Configure LAN IP, and select WAN type), 'OAM Setup' (Allow you to set the OAM feature for virtual channel), 'DHCP Server' (The settings include Host IP, Subnet Mask, Gateway, DNS, and WINS configurations), 'Wireless' (Wireless settings allow you to configure the wireless configuration items), and 'Change Password' (Allow you to change system password). A 'Current Time' box on the left shows 'Montag, 8. September 2003 12:32:49'.

On the left side choose „Wireless“

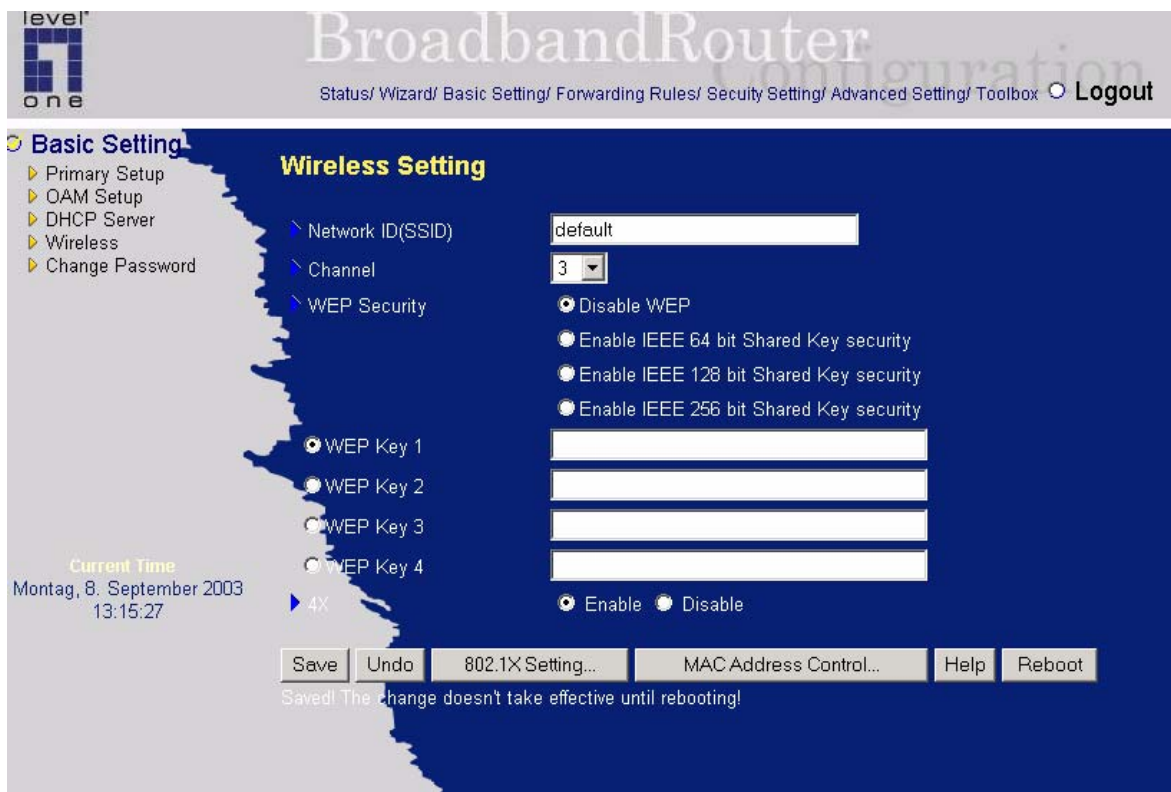


Wireless settings allow you to set the wireless configuration items.

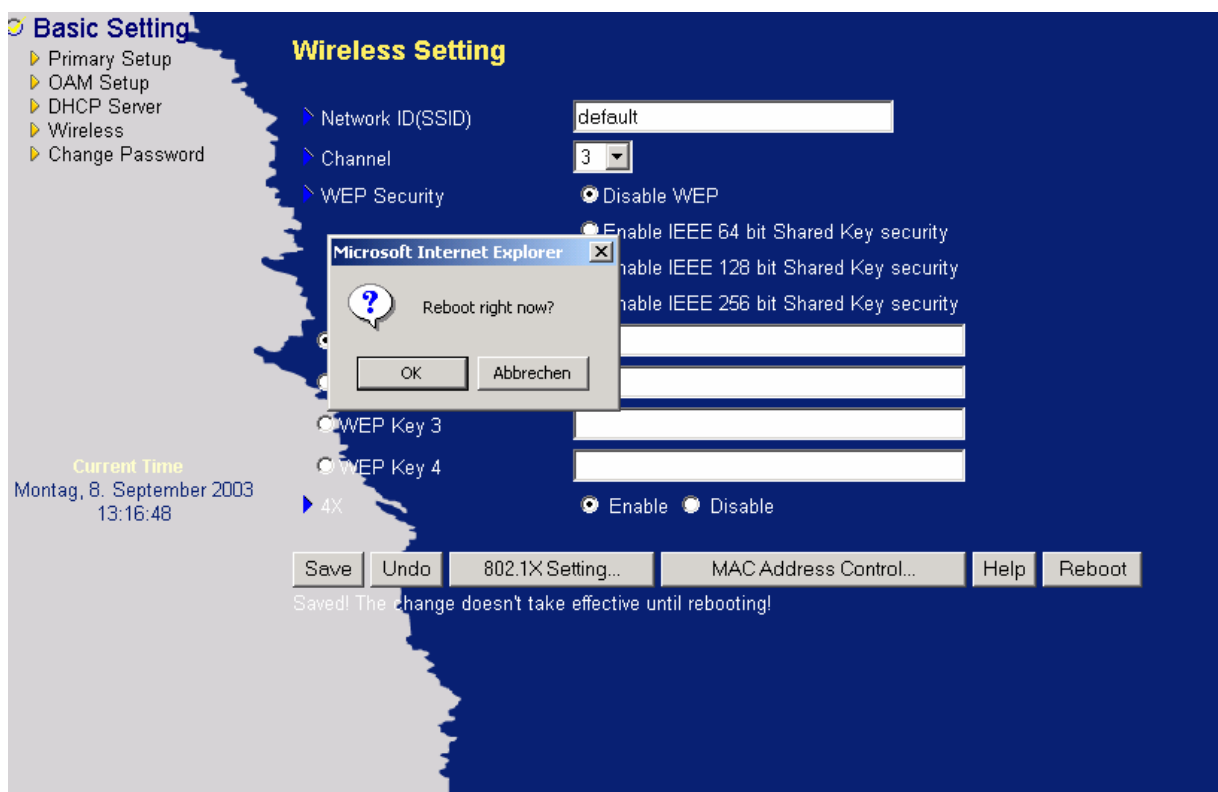
1. **Network ID(SSID):** Network ID is used for identifying the Wireless LAN (WLAN). Client stations can roam freely over this product and other Access Points that have the same Network ID. (The factory setting is “*default*”)
2. **Channel:** The radio channel number. The permissible channels depend on the Regulatory Domain.  
The factory setting is as follow: **channel 6** for North America; **channel 7** for European (ETSI); **channel 7** for Japan.
3. **WEP Security:** Select the data privacy algorithm you want. Enabling the security can protect your data while it is transferred from one station to another. The standardized IEEE 802.11 WEP (128 or 64-bit) is used here.
4. **WEP Key 1, 2, 3 & 4:** When you enable the 128 or 64 bit WEP key security, please select one WEP key to be used and input 26 or 10 hexadecimal (0, 1, 2...8, 9, A, B...F) digits.

**Pass-phrase Generator: Since hexadecimal characters are not easily remembered, this device offers a conversion utility to convert a simple word or phrase into hex.**

After configuration is completed press “Save”. A new window appears as follow.



Click „reboot“,



Press „OK“

level one **BroadbandRouter** Configuration  
Status/ Wizard/ Basic Setting/ Forwarding Rules/ Security Setting/ Advanced Setting/ Toolbox  Logout

**Basic Setting**

- ▶ Primary Setup
- ▶ OAM Setup
- ▶ DHCP Server
- ▶ Wireless
- ▶ Change Password

**Restarting**

Wait a moment to reconnect...

Current Time  
Montag, 8. September 2003  
13:19:15

level one **BroadbandRouter** Configuration  
Status   Login

**Status**

**System Status**

INFORMATION

System Time: Tue Mar 18 03:20:09 2003

WAN Type: PPP over Ethernet  
IP Address: 0.0.0.0  
Subnet Mask: 0.0.0.0  
Gateway: 0.0.0.0  
Domain Name Server: 0.0.0.0

ADSL Connection  
(DownStream/UpStream): Not Connected  
Connection Time: -  
Printer: Not ready  
Octects: 0 0  
Unicast Packets: 0 0  
Non-unicast Packets: 0 0

Current Time  
Montag, 8. September 2003  
13:20:44

Wireless – configuration is now completed.  
Close your browser.