



CellPipe[®] 7130

Residential Gateway

6Ve.A2130, 6Ve.B2130 | Release 01

USER MANUAL

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Conformance statements

The equipment has been tested in the regulation lab and complied with the limits for SHDSL device, pursuant to Europe CE/CB, Australia A-Trick and China CCC. These limits of different regulations are designed provide reasonable protection against harmful interference or damage in a residential installation.

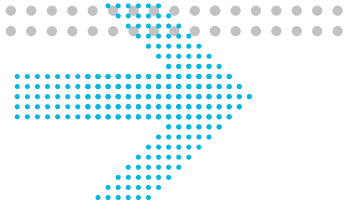
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About this document



Purpose

This document provides information on the hardware setup, software configuration, and administration necessary to operate the CellPipe 7130 Residential Gateway 6Ve.A2130 and 6Ve.B2130.

Reason for revision

The following table shows the revision history of this document.

Revision	Date	Reason for reissue
Edition 01	April 2009	First release of this document

Intended audience

This document is intended for users and administrators of the CellPipe 7130 RG 6Ve.A2130 and 6Ve.B2130.

How to use this document

This document introduces the CellPipe 7130 RG 6Ve.A2130 and 6Ve.B2130 hardware, connections, and setup. It also covers the Web configuration interface and provides parameter definitions for the fields on those screens.

Conventions used

This guide uses the following typographical conventions:

Appearance	Description
<i>Italicized text</i>	<ul style="list-style-type: none">• File and directory names.• Emphasized information.• Titles of publications.• A value that the user supplies.
graphical user interface text or key name	<ul style="list-style-type: none">• Text that is displayed in a graphical user interface or in a hardware label.• The name of a key on the keyboard.

Appearance	Description
input text	Command names and text that the user types or selects as input to a system.
output text	Text that a system displays or prints.
↵	Press the Return or Enter key on the keyboard.

Structure of hazard statements

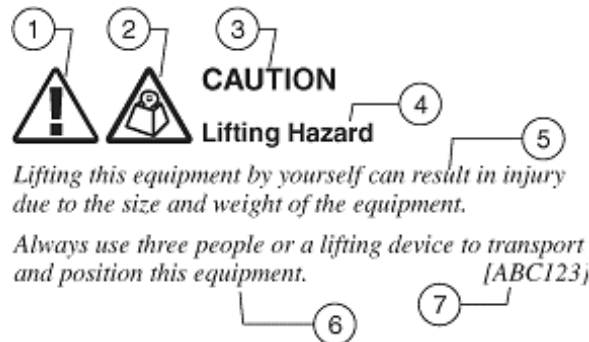
Overview

For the safety of you and your equipment, this document contains hazard statements. Hazard statements are given at points where there may be a risk of damage to personnel, equipment, or operation. Failure to follow the directions in a hazard statement may result in personal harm, equipment damage, or network loss.

General structure

Hazard statements include the structural elements shown in the figure below.

Structure of hazard statements



Item	Structure element	Purpose
1	Personal injury symbol	Indicates the potential for personal injury (optional).
2	Hazard type symbol	Indicates hazard type (optional).
3	Signal word	Indicates the severity of the hazard.
4	Hazard type	Describes the source of the risk of damage or injury.
5	Damage statement	Consequences if protective measures fail.
6	Avoidance message	Protective measures to take to avoid the hazard.
7	Identifier	The reference ID of the hazard statement (optional).

Signal words

The following table defines signal words that identify the hazard severity levels.

Signal words for hazard severity

Signal word	Meaning
DANGER	Indicates an imminently hazardous situation (high risk) which, if not avoided, will result in death or serious injury.
WARNING	Indicates a potentially hazardous situation (medium risk) which, if not avoided, could result in death or serious injury.
CAUTION	<p><i>When used with the personal injury symbol:</i></p> <p>Indicates a potentially hazardous situation (low risk) which, if not avoided, may result in personal injury.</p> <p><i>When used without the personal injury symbol:</i></p> <p>Indicates a potentially hazardous situation (low risk) which, if not avoided, may result in property damage, such as service interruption or damage to equipment or other materials.</p>

Related information

The documentation set accompanying this family of routers includes this User Manual, a CLI Command Reference Guide and a Quick Installation Guide.

Technical support

For technical support, contact your local Alcatel-Lucent customer support team. See the Alcatel-Lucent Support website for contact information: https://service.esd.alcatel-lucent.com/portal/page/portal/EService/customer_support

Contents



1	Product overview	
	Hardware introduction	1-1
	Safety precautions	1-2
	Prerequisites	1-2
	Description of LEDs and interfaces	1-3
2	Hardware installation	
	To install the CellPipe 7130 RG	2-1
3	Accessing the CellPipe 7130 RG web configuration tool	
	To access the CellPipe 7130 RG web configuration tool	3-1
4	Status	
	System Info	4-1
	Device Table	4-3
	VDSL	4-4
	DHCP Lease Table	4-6
	WiFi Associate Table	4-7
	Statistics	4-8
5	Network	
	LAN Setting	5-1
	WAN Setting	5-3
6	WiFi Setup	
	WiFi Setting	6-1
	WiFi Security	6-3
	WiFi Access	6-5
7	Firewall Setup	
	Port Range Forwarding	7-1
	Virtual Server Basic	7-3
	Virtual Server Advance	7-4
	Demilitarized Zone	7-6
	UPnP	7-7
	Filter	7-8
	NAT Passthrough	7-10

	URL Filter	7-11
8	Advanced Setup	
	Route Setting	8-1
	Bridge MAC Filter	8-3
	Dynamic DNS	8-4
	System Log	8-5
9	QoS Setup	
	QoS Scheduler	9-1
	QoS IP Policy	9-2
	QoS ALG	9-4
10	Telephony	
	Account Setting	10-1
	Service Setting	10-2
	Server Setting	10-4
	Call List	10-6
11	Utilities	
	Restore Factory Defaults	11-1
	Configuration Backup	11-2
	Configuration Restore	11-3
	Web Firmware Upload	11-4
	Remote Management	11-5
	System Setting	11-7
	Management Access	11-8
	Reboot Gateway	11-9
	Connection Test	11-10
A	Troubleshooting	
B	TCP/IP configuration	
C	Product conformance	
	EU declaration of conformity	C-1
GL	Glossary	

1 Product overview



Overview

Purpose

This chapter provides an introduction to the physical aspects of the CellPipe 7130 RG 6Ve.A2130 and 6Ve.B2130, including safety precautions, prerequisites, and descriptions.

The CellPipe 7130 RG 6Ve.A2130 and 6Ve.B2130 will be referred to as CellPipe 7130 RG throughout the rest of this document.

Contents

This chapter covers the following topics:

Hardware introduction	1-1
Safety precautions	1-2
Prerequisites	1-2
Description of LEDs and interfaces	1-3

Hardware introduction

This CellPipe 7130 RG supports Ethernet-over-VDSL2 using one Ethernet data link that is rated up to 100 Mb/s symmetrically. With its bridge functionality, it connects any device equipped with a 10BASE-T or 100BASE-TX network interface card with a standard telephone cable to a VDSL switch. For this purpose, it provides:

- one VDSL port
- one Ethernet LAN port (10/100BASE-TX)

The CellPipe 7130 RG also includes router and firewall functionality.

Safety precautions

Follow these recommendations to protect yourself and the CellPipe 7130 RG from harm:

- Use volume labels to mark the type of power.
- Use the power adapter provided with the CellPipe 7130 RG.
- Pay attention to the power load of the electrical outlet or extension cord. An overburdened power outlet or damaged cords and plugs may cause electric shock or fire. Check the power cords regularly. If you find any damage, replace the cord immediately.
- Leave adequate space for heat dissipation to avoid any damage caused by overheating the CellPipe 7130 RG. Do not cover the ventilation holes.
- Do not put the CellPipe 7130 RG near a heat source. Avoid placing the CellPipe 7130 RG in direct sunlight.
- Do not put the CellPipe 7130 RG in damp or wet locations. Do not spill any liquid on the CellPipe 7130 RG.
- Do not connect the CellPipe 7130 RG to any PC or electronic product unless our customer engineers or your ISP instructs you to do so; incorrect connections may cause fires.
- Do not place the CellPipe 7130 RG on an unstable surface or support.
- Do not place heavy objects on top of the CellPipe 7130 RG.
- Do not use liquid or aerosol cleaners; use a soft, dry cloth for cleaning.

Prerequisites

Ensure that you have the following items before attempting to use the CellPipe 7130 RG:

- Internet services subscription (connection type, account information, and addresses)
- 10/100Base-T Ethernet NIC installed in your PC
- Operating system: Windows 98SE, Windows 2000, Windows NT, Windows ME, Windows XP, Microsoft Vista, or Mac OS
- Internet Explorer v4.0 or higher, Netscape v4.0 or higher, or Mozilla Firefox v1.5 or higher

Note: For optimal display quality, use Internet Explorer v5.0 or Netscape v6.1.

Description of LEDs and interfaces

Figure 1-1 Front panel



Table 1-1 Front panel LEDs

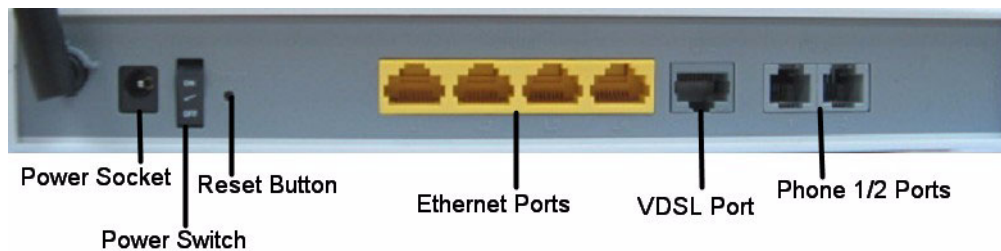
LED	Status	Description
WPS (push-button)	N/A	If the WPS LED is off, press the push-button to turn on the WPS. If the WPS LED is on, press the push-button once to turn off the WPS.
WLAN (push-button)	N/A	If the WLAN LED is off, press the push-button to turn on the WLAN. If the WLAN LED is on, press the push-button once to turn off the WLAN.
Power	On	CellPipe 7130 RG is powered on.
	Off	Power is disconnected or there is a power failure.
Lan 1 to 4	On	Ethernet LAN port 1 to 4 is connected and active.
	Flashing	Ethernet LAN port 1 to 4 has data traffic.
	Off	Ethernet LAN port 1 to 4 is not active.
WPS	On	WPS is enabled.
	Off	WPS is disabled.
WLAN	On	Wireless function is enabled.
	Off	Wireless function is disabled.
Phone 1 to 2	On	Phone 1 to 2 is connected.
	Off	No phones are connected.
VDSL Link	On	VDSL is operating.
	Slow flashing*	VDSL is training.
	Off	VDSL is disconnected.
VDSL Data	Slow flashing	VDSL is enabled.
	Fast flashing†	VDSL is transmitting data.
	Off	VDSL is disabled.

LED	Status	Description
VDSL Diag	On	Diagnostics is running.
	Flashing	The CellPipe 7130 RG failed diagnostic when booting or resetting.
	Off	The CellPipe 7130 RG is functional and diagnostics is not running.
Internet	On	The CellPipe 7130 RG is connected to the Internet.
	Off	The CellPipe 7130 RG is not connected to the Internet.
Message	Slow flashing	Firmware upgrade in progress.
	Off	No firmware upgrade in progress.

Notes:

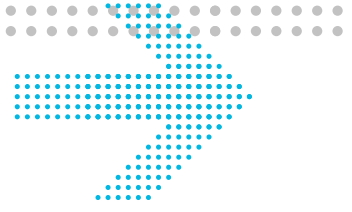
* Slow flashing: LED flashes at the rate of 2 seconds on and 2 seconds off.

† Fast flashing: LED flashes at a rate of 0.2 seconds on and 0.2 seconds off.

Figure 1-2 Rear panel**Table 1-2 Rear panel items**

Item	Description
Power socket	DC power adapter port.
Power switch	Power On/Off switch.
Reset button	Press and hold for 5 s to restore the factory default settings.
Ethernet ports 1 to 4	Four RJ-45 ports to connect up to four Ethernet PCs or a Hub.
VDSL port	Input port for the VDSL network connection to the ISP.
Phone ports 1 to 2	Two RJ-11 ports for connecting telephones for VoIP.

2 Hardware installation



Overview

Purpose

This chapter provides the instructions to install the CellPipe 7130 RG hardware.

Contents

This chapter covers the following topic:

To install the CellPipe 7130 RG

2-1

To install the CellPipe 7130 RG

Supplies

- CellPipe 7130 RG
- RJ-11 telephone cable
- two RJ-45 category 5 Ethernet cable
- power adapter

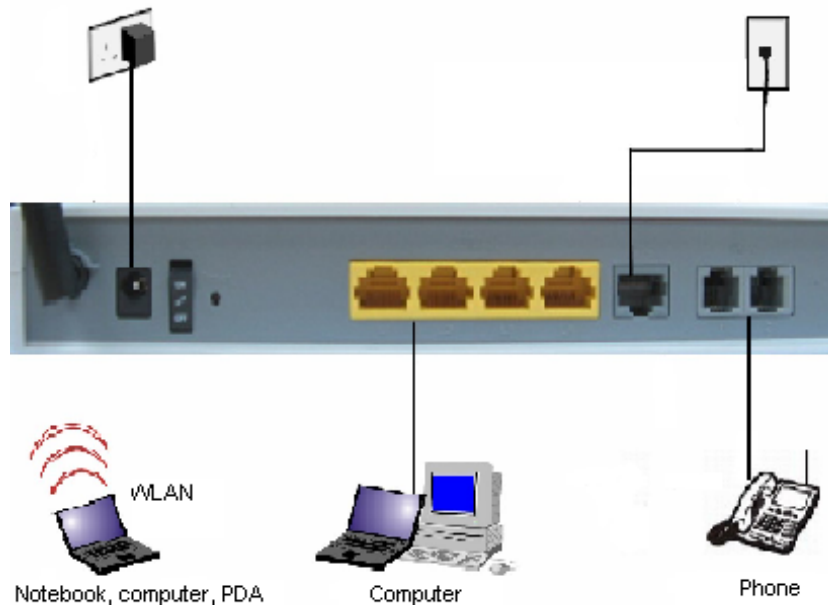
Before you begin

CAUTION

Potential for equipment damage and personal harm

Before installing the CellPipe 7130 RG, ensure you have thoroughly read the Safety precautions and Prerequisites in chapter 1.

Turn off all devices (computer, hub, CellPipe 7130 RG) before beginning this procedure.

Figure 2-1 Cable connections**Procedure**

1. Connect the power adapter jack into the power socket on the CellPipe 7130 RG and plug the power adapter plug into an outlet.
2. Connect one end of the RJ-45 cable into the VDSL port on the CellPipe 7130 RG and the other end to your telephone/DSL service connection.
3. If you have VoIP, connect your phone(s) to the phone port(s) on the CellPipe 7130 RG.
4. Connect one end of the RJ-45 Ethernet cable to the Ethernet LAN port (1 to 4) on the CellPipe 7130 RG and the other end to your Ethernet PC (or LAN hub if you are setting up an intranet).
5. Turn the power switch on.

END OF STEPS

You must also configure the Internet properties on your Ethernet PC; see the TCP/IP Appendix or *Quick Installation Guide* for detailed instructions.

After setting up and configuring the CellPipe 7130 RG and your PC(s), you can access the web configuration tool.



3 Accessing the CellPipe 7130 RG web configuration tool

Overview

Purpose

This chapter explains how to access the CellPipe 7130 RG web configuration tool by entering the IP address and the default passwords.

The management interface software is HTML-based and can be accessed using a web browser.

Contents

This chapter covers the following topic:

To access the CellPipe 7130 RG web configuration tool

3-1

To access the CellPipe 7130 RG web configuration tool

When to use

Use this procedure to access the web configuration interface of the CellPipe 7130 RG. The configuration interface enables you to secure the CellPipe 7130 RG, limit access, set traffic routes, modify passwords, and change advanced settings.

Before you begin

Before you can configure the CellPipe 7130 RG, it must be installed, connected to a web-enabled PC, and turned on.

Management IP settings

To establish the initial connection, either use a computer configured to be a DHCP client, or use a computer with IP settings in the 192.168.1.0 subnet. The default IP address of the CellPipe 7130 RG for the first LAN port is 192.168.1.1 with a subnet 255.255.255.0.

Note: If you are not sure how to configure your computer to be a DHCP client or to set your IP address and subnet mask, see the TCP/IP Appendix or the *Quick Installation Guide*.

Procedure

1. Open a web browser and enter the IP address of the CellPipe 7130 RG in the address bar:

http://192.168.2.1 ↵

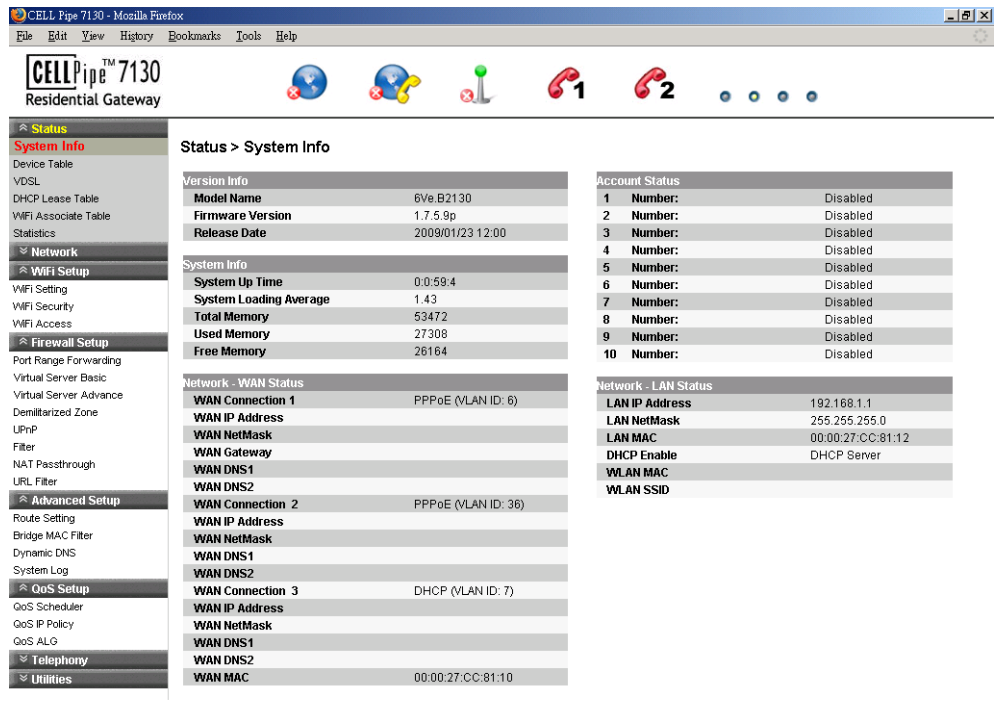
The login window appears; see [Figure 3-1](#).

Figure 3-1 Login window



2. Enter your username and password and click **OK**.
The default admin username is **admin** and the default admin password is **admin**.
The Status window appears; see [Figure 3-2](#).

Figure 3-2 Status window



The status window is described in [Chapter 4, “Status”](#).

Note: Once you have logged in for the first time, you should change your login password. See the [System Setting](#) section in the Utilities chapter for instructions.

END OF STEPS

Configuration menus

All configuration and management of the CellPipe 7130 RG is done using the web configuration tool. Click on the **Status**, **Network**, **WiFi Setup**, **Firewall**, **Advanced Setup**, **QoS** and **Utilities** tabs to view the configuration menus or information located in each directory.

The menus used to configure basic settings are located in the **Status** menu of the web page used for management; for more information, see the Status chapter.

4 Status



Overview

Purpose

This chapter describes the contents of the Status menu, which contains the status information for the CellPipe 7130 RG, its connections, and the connected hardware.

Click the **Status** drop-down menu to open the **Status** menu.

Contents

This chapter covers the following topics:

System Info	4-1
Device Table	4-3
VDSL	4-4
DHCP Lease Table	4-6
WiFi Associate Table	4-7
Statistics	4-8

System Info

The System Info window displays the current status of the software, system time, memory, and WAN connection.

Select **System Info** in the **Status** menu to access the System Info window; see [Figure 4-1](#). The System Info window is the home page of the configuration menus.

Figure 4-1 System Info window

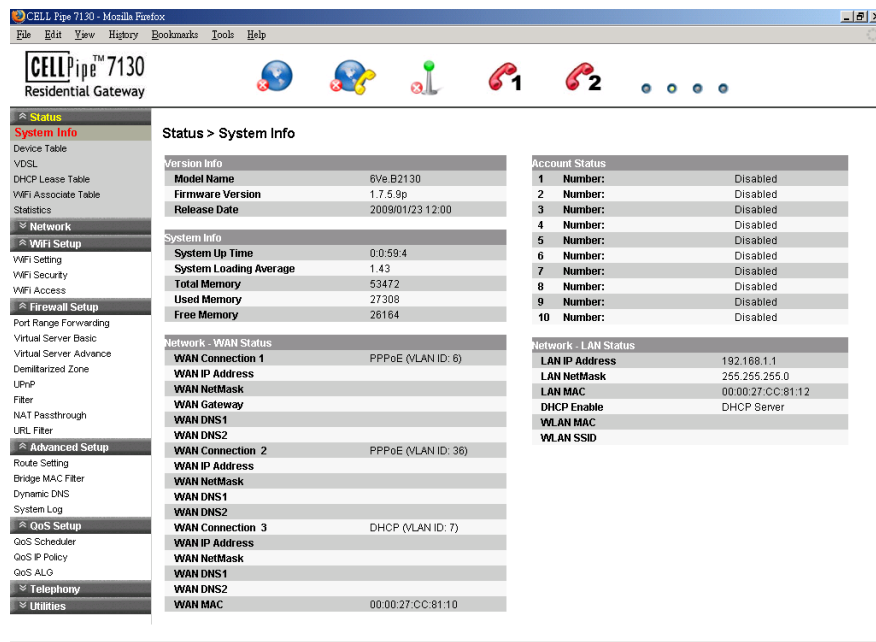


Table 4-1 describes the fields of the System Info window.

Table 4-1 Field descriptions

Field	Description
Version Info	
Model Name	The model name of the modem.
Firmware Version	The current version of the firmware.
Release Date	The release date of the firmware.
System Info	
System Up Time	The amount of time the system has been operational.
System Loading Average	The average time for the system to load.
Total Memory	The memory capacity of the system in kb/s.
Used Memory	The memory used in the system.
Free Memory	The free memory in the system.
Network - WAN Status	
WAN Connection 1 to 3	The WAN connection method.
WAN IP Address	The IP address of the WAN interface.
WAN NetMask	The subnet mask of the WAN interface.
WAN Gateway	The gateway IP address for the WAN interface.
WAN DNS1	The primary DNS for the WAN connection.

Field	Description
WAN DNS2	The secondary DNS for the WAN connection.
WAN MAC	The MAC address of the WAN connections.
Account Status	
1 to 10 Number:	The status (Enabled or Disabled) of accounts 1 to 10.
Network - LAN Status	
LAN IP Address	The IP address of the LAN interface.
LAN NetMask	The subnet mask of the LAN interface.
LAN MAC	The MAC address of the LAN interface.
DHCP Enable	The status of the LAN DHCP.
WLAN MAC	The WLAN MAC address of the WLAN interface.
WLAN SSID	The service set identifier used to identify the particular WLAN connection.

Device Table

The Device Table displays information about the hardware connected to the CellPipe 7130 RG.

Select **Device Table** in the **Status** menu to access the Device Table; see [Figure 4-2](#).

Figure 4-2 Device Table

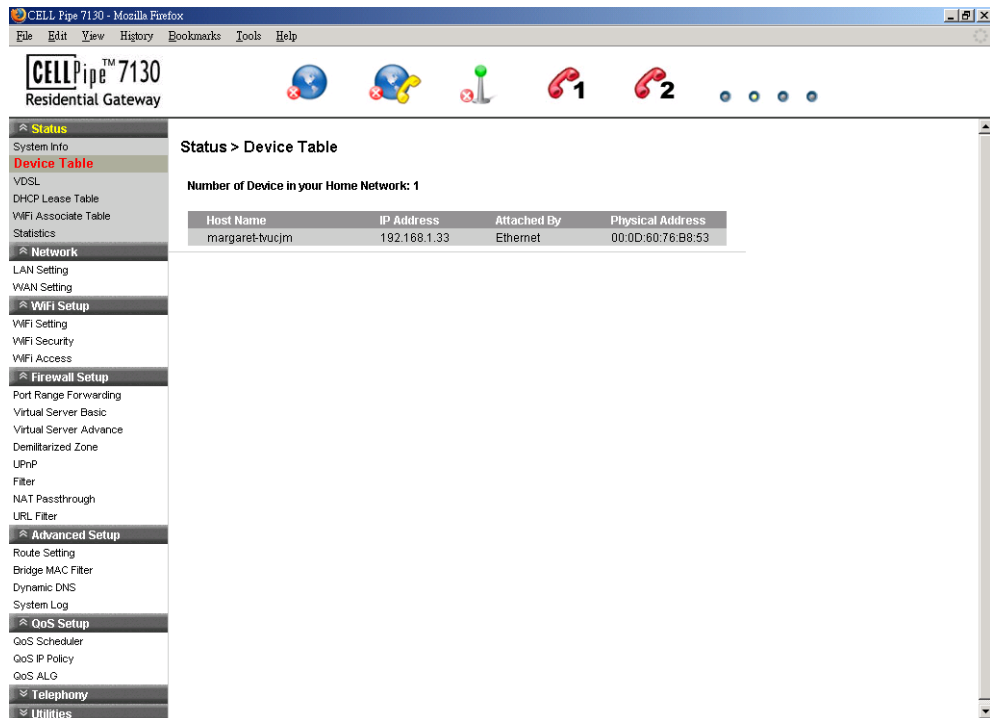


Table 4-2 describes the fields of the Device Table.

Table 4-2 Field descriptions

Field	Description
Host Name	The name of the device connected to the gateway.
IP Address	The IP address of the client device.
Attached By	The type of connection.
Physical Address	The MAC address of the client adapter.

VDSL

The VDSL window displays the VDSL connection status and data.

Select **VDSL** in the **Status** menu to access the VDSL window; see [Figure 4-3](#).

Figure 4-3 VDSL window

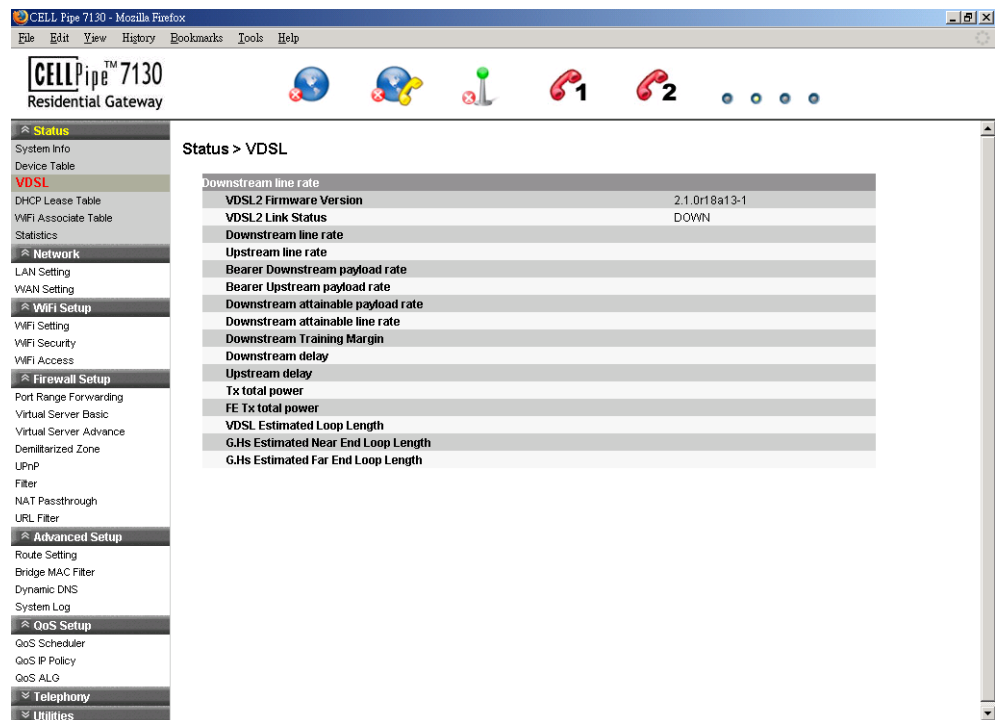


Table 4-3 describes the fields of the VDSL window.

Table 4-3 Field descriptions

Field	Description
VDSL2 Firmware Version	The version of firmware in use.
VDSL2 Link Status	The status of VDSL2 link.
Downstream line rate	The rate of the downstream data transfer in kb/s.
Upstream line rate	The rate of the upstream data transfer in kb/s.
Bearer Downstream payload rate	The estimated downstream payload rate in kb/s.
Bearer Upload payload rate	The estimated upload payload rate in kb/s.
Downstream attainable payload rate	The achievable downstream payload rate in kb/s.
Upstream attainable line rate	The achievable upstream payload rate in kb/s.
Downstream Training Margin	The downstream margin used for training DSL in dBm.
Downstream delay	The downstream delay in s.
Upstream delay	The upstream delay in s.
Tx total power	Total power used in transmission.
FE Tx total power	Total power used in Fast Ethernet 100BASE-TX.
VDSL Estimated Loop Length	The estimated VDSL loop length in m.

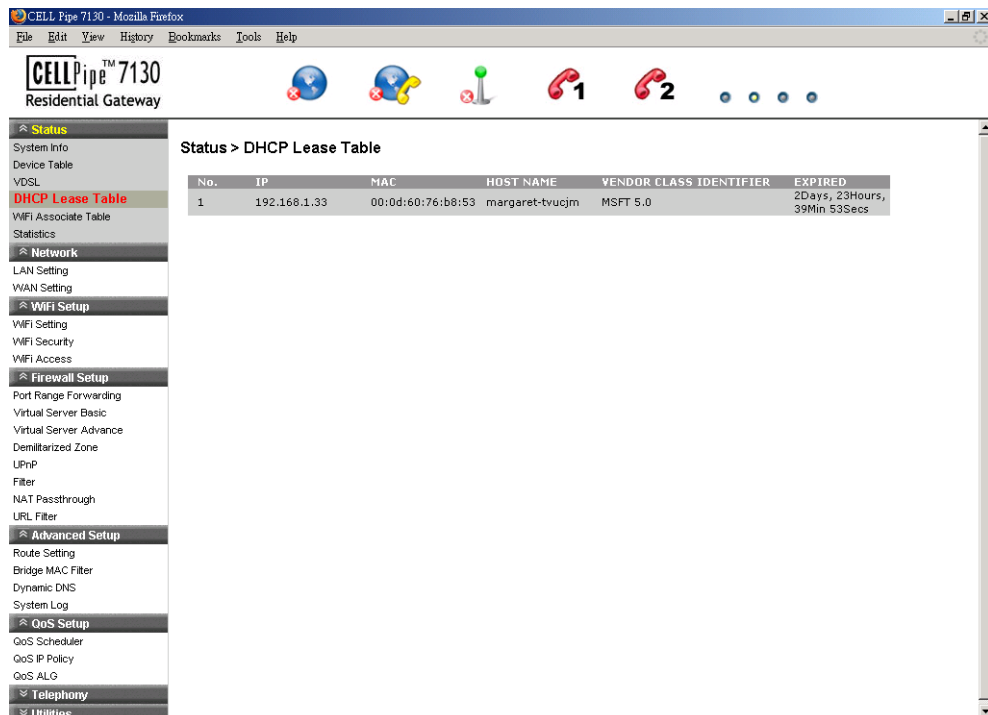
Field	Description
G.Hs Estimated Near End Loop Length	The estimated G.handshake (ITU G.994.1) near end loop length.
G.Hs Estimated Far End Loop Length	The estimated G.handshake far end loop length.

DHCP Lease Table

The DHCP Lease Table displays the DHCP settings.

Select **DHCP Lease Table** in the **Status** menu to access the DHCP Lease Table; see [Figure 4-4](#).

Figure 4-4 DHCP Lease Table



[Table 4-4](#) describes the fields of the DHCP Lease Table.

Table 4-4 Field descriptions

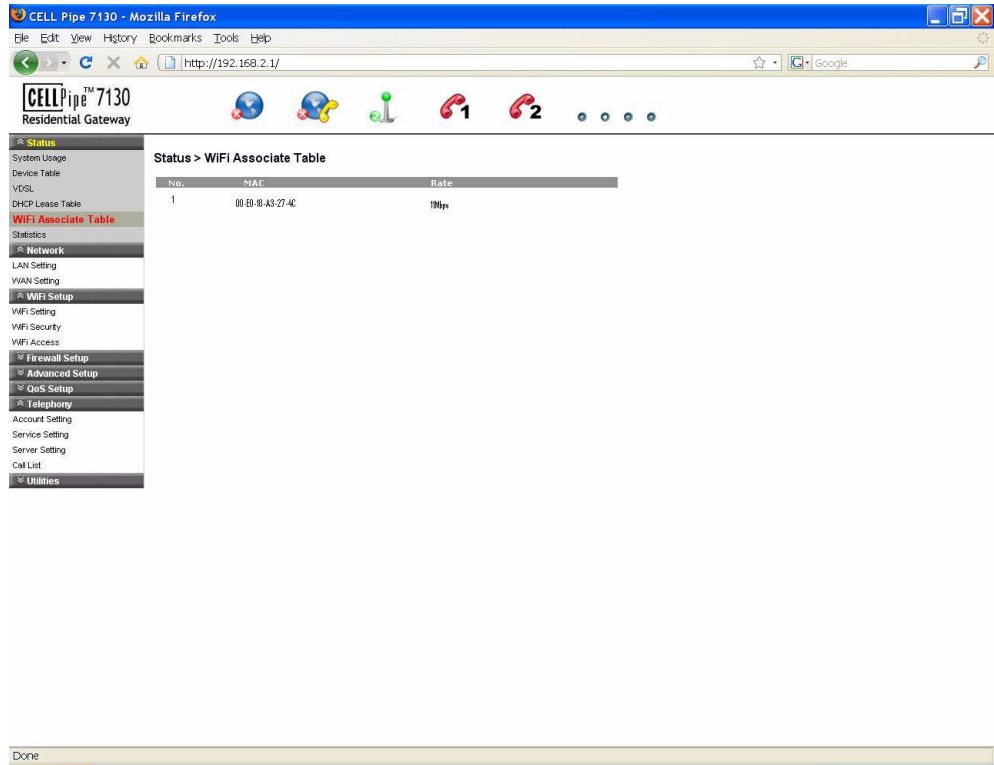
Field	Description
IP Address	The IP address of the DHCP client computer.
MAC Address	The MAC address of the DHCP client computer.
Host Name	The host name of the DHCP client computer.

WiFi Associate Table

The WiFi Associate Table displays the connected clients.

Select **WiFi Associate Table** in the **Status** menu to access the WiFi Associate Table; see [Figure 4-5](#).

Figure 4-5 WiFi Associate Table



[Table 4-5](#) describes the fields of the WiFi Associate Table.

Table 4-5 Field descriptions

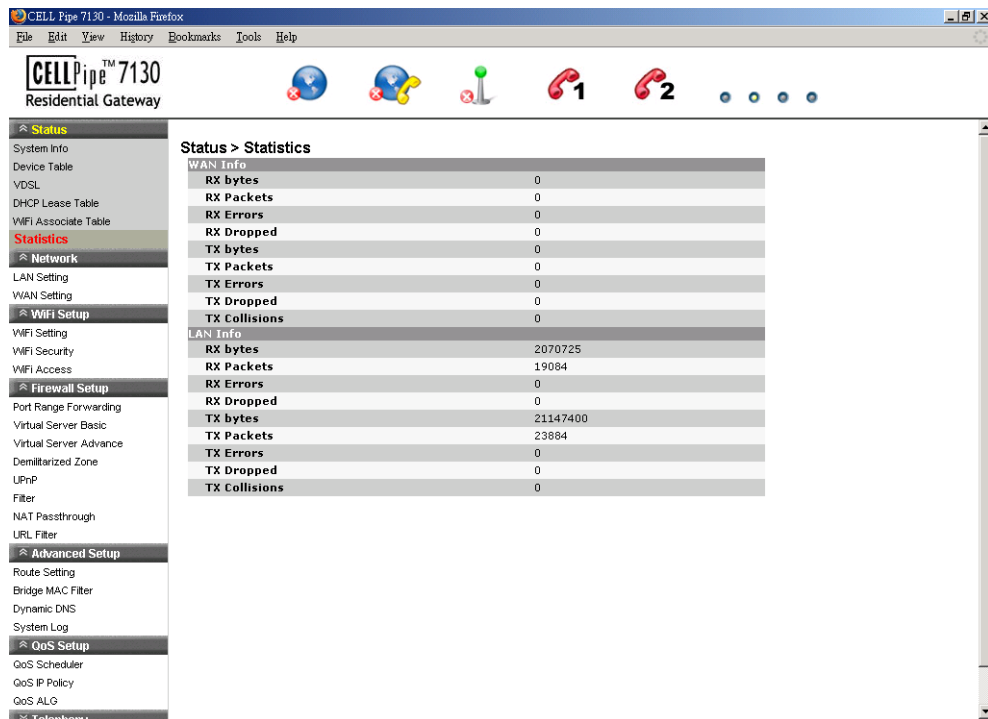
Field	Description
NO.	The number index of the client computer.
MAC	The MAC address of the client computer.
Rate	The connection mode of the wireless network.
Vendor Class Identifier	Identifies the client's platform for the DHCP lease.
Expired	The period of time that the DHCP lease will expire.

Statistics

The Statistics window displays the number of bytes that have been received and transmitted by the LAN and WAN interfaces.

Select **Statistics** in the **Status** menu to access the Statistics window; see [Figure 4-6](#).

Figure 4-6 Statistics window



[Table 4-6](#) describes the WAN and LAN fields of the Statistics window.

Table 4-6 Field descriptions

Field	Description
RX bytes	The number of bytes that have been received.
RX Packets	The number of packets that have been received.
RX Errors	The number of packets that have been received with errors.
RX Dropped	The number of packets dropped after being received.
TX bytes	The number of bytes that have been transmitted.
TX Packets	The number of packets that have been transmitted.
TX Errors	The number of packets that have been transmitted with errors.
TX Dropped	The number of packets dropped after being transmitted.

Field	Description
TX Collisions	The number of packets collided when transmitted.

5 Network



Overview

Purpose

This chapter explains how to configure the network settings for the CellPipe 7130 RG from the Network menu.

Click the **Network** drop-down menu to open the **Network** menu.

Contents

This chapter covers the following topics:

LAN Setting	5-1
WAN Setting	5-3

LAN Setting

The LAN Settings include the IP address, subnet mask, DHCP settings, DHCP relay, and static IP lease.

Select **LAN Setting** in the **Network** menu to access the LAN Setting window; see [Figure 5-1](#).

Figure 5-1 LAN Setting window

Table 5-1 describes the fields of the LAN Setting window.

Table 5-1 Field descriptions

Field	Description
IP Address	The IP address of the LAN interface in dotted decimal notation. The default is 192.168.1.1. You can change this address as needed to an address that is reserved for private use. The range of private addresses is 192.168.1.1 to 192.168.255.254.
Subnet Mask	The subnet mask of the IP addresses in your LAN; for example, 255.255.255.0.
DHCP Server	If enabled, the CellPipe 7130 RG assigns IP addresses, an IP default gateway, and DNS servers to computers that support the DHCP client; for example, Windows 95, Windows NT.
DHCP Starting IP Address	The first value of contiguous IP addresses.
DHCP Ending IP Address	The last value of contiguous IP addresses.
DHCP Lease Time	The time period during which the computers retain the IP addresses assigned to them.

Field	Description
Static Lease	The set MAC associations and IP addresses. Assign the static IP lease to the designated client's adaptor.
Not Assign IP	The client's MAC address to be filtered from the DHCP lease.
Apply Changes	Click to save your changes.

WAN Setting

The WAN settings include the configuration for both the Bridge Mode and Routed Mode.

Select **WAN Setting** in the **Network** menu to access the WAN setting window. You can configure the WAN in Bridged Mode (see [Figure 5-2](#)) or Routed Mode (see [Figure 5-3](#)).

Bridged Mode

When bridge mode is selected, the basic functions of the router, such as the firewall, route setting, DHCP server, DDNS, QoS, and UPnP, are disabled.

Select the **Bridged Mode** option from the **WAN>Hybrid** setting window to enable the Bridged Mode WAN setting; see [Figure 5-2](#).

Figure 5-2 Bridged mode WAN settings window

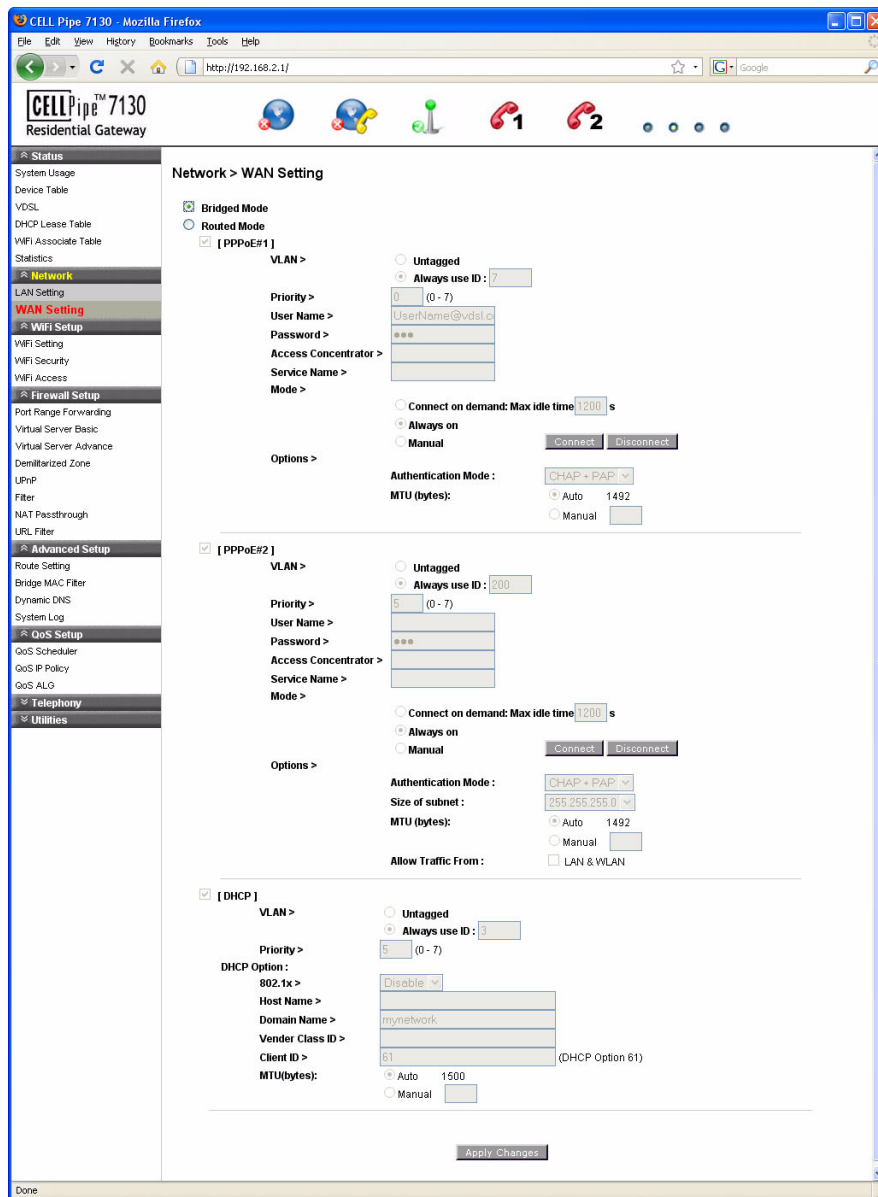


Table 5-2 describes the fields of the Bridged Mode WAN setting window.

Table 5-2 Field descriptions

Field	Description
Bridged Mode	When the bridged mode radio button is selected, the CellPipe 7130 RG only uses MAC addresses. The basic functions of the router such as the Firewall, Route, DHCP Server, DDNS, and UPnP will be disabled.
Apply Changes	Click to save your changes.

Routed Mode

If the Routed Mode option is selected the CellPipe 7130 RG uses IP addresses and subnet masks. The functions of the router such as the Firewall, Route, DHCP Server, DDNS, and UPnP can be enabled.

Select the **Routed Mode** option from the **WAN>Hybrid** setting window to enable the routed mode WAN setting; see [Figure 5-3](#).

Figure 5-3 Routed Mode WAN setting window

The screenshot displays the 'Network > WAN Setting' window for the CellPipe 7130 Residential Gateway. The 'Routed Mode' is selected. The configuration is organized into three sections:

- [PPPoE1]**:
 - VLAN: Untagged, Always use ID: 7
 - Priority: 0 (0-7)
 - User Name: UserName@vds1.c
 - Password: [masked]
 - Access Concentrator: [empty]
 - Service Name: [empty]
 - Mode: Always on
 - Authentication Mode: CHAP + PAP
 - MTU (bytes): Auto 1492
- [PPPoE2]**:
 - VLAN: Untagged, Always use ID: 200
 - Priority: 5 (0-7)
 - User Name: [empty]
 - Password: [masked]
 - Access Concentrator: [empty]
 - Service Name: [empty]
 - Mode: Always on
 - Authentication Mode: CHAP + PAP
 - Size of subnet: 255.255.255.0
 - MTU (bytes): Auto 1492
 - Allow Traffic From: LAN & WLAN
- [DHCP]**:
 - VLAN: Untagged, Always use ID: 3
 - Priority: 5 (0-7)
 - DHCP Option: 802.1x: Disable
 - Host Name: [empty]
 - Domain Name: mynetwork
 - Vendor Class ID: [empty]
 - Client ID: 61 (DHCP Option 61)
 - MTU(bytes): Auto 1500

An 'Apply Changes' button is located at the bottom of the configuration area.

[Table 5-3](#) describes the fields of the Routed Mode WAN setting window.

Table 5-3 Field descriptions

Fields	Description
[PPPoE#1] to [PPPoE#2]	Enable one or both of the supported VLAN over PPPoE.
VLAN	
Untagged	Enable if a VLAN ID is not being used.
Always Use ID	Enable if a VLAN ID is being used and enter the ID number (between 2 to 4094).
Priority	Enter a priority level from 0 to 7 to define user priority.
User Name	Enter the user name for the PPPoE connection.
Password	Enter the password for the PPPoE connection.
Access Concentrator	The access concentrator is optional. Consult with your ISP for information.
Service Name	The service name is optional. Consult with your ISP for information.
Mode	
Connect on demand: Max idle time	Select to have the router connect to the Internet only when you choose to do so. Enter a max idle time to specify the maximum number of idle seconds after which the connection is dropped.
Always on	Select to always have the router connect to the Internet.
Manual	Select and then click Connect to manually connect the router to the internet. Click Disconnect to end the connection.
Options	
Authentication Mode	Select the authentication mode from the drop-down menu. Options include: <ul style="list-style-type: none"> • CHAP + PAP • CHAP • PAP This is optional. Your ISP will provide this information if it is necessary.
MTU (bytes)	Enable Auto to set the maximum transfer unit to the default (1492), or enable Manual to manually enter a unit.
Apply Changes	Click to save your changes.

6 WiFi Setup



Overview

Purpose

This chapter explains how to configure the WiFi settings for the CellPipe 7130 RG from the WiFi setup menu.

Click the **WiFi Setup** drop-down menu to open the **WiFi Setup** menu.

Contents

This chapter covers the following topics:

WiFi Setting	6-1
WiFi Security	6-3
WiFi Access	6-5

WiFi Setting

The WiFi Setting window enables you to configure the common wireless and WiFi 1 settings.

Click on **WiFi Setting** in the **WiFi Setup** menu to access the WiFi Setting window; see [Figure 6-1](#).

Figure 6-1 WiFi Setting window

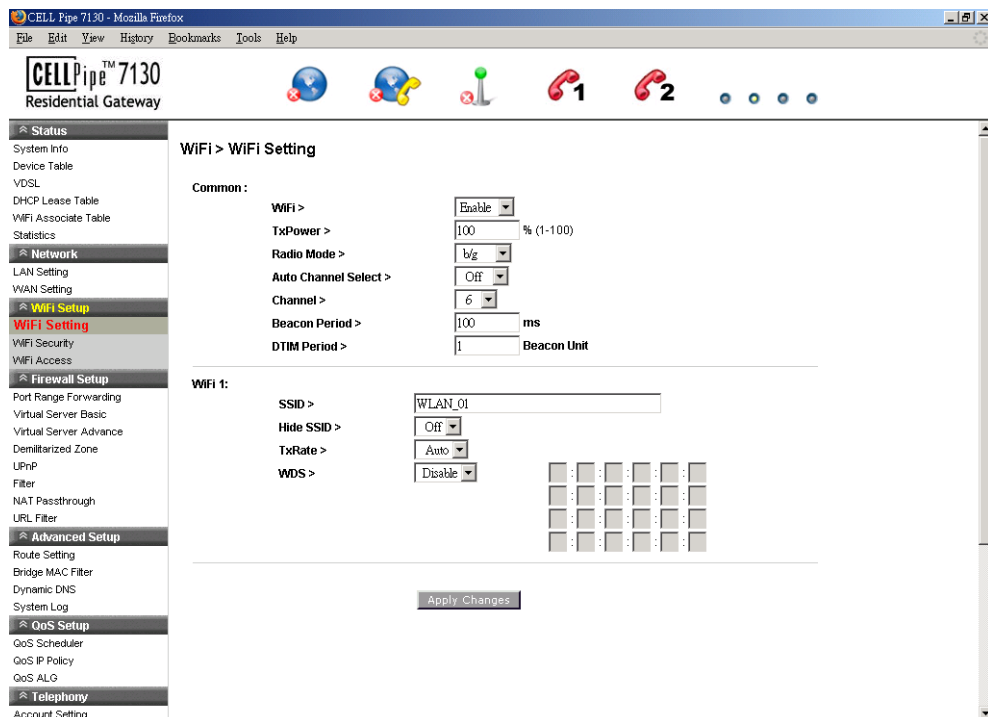


Table 6-1 describes the fields of the WiFi Setting window.

Table 6-1 Field descriptions

Field	Description
Common	
WiFi	To configure the wireless LAN settings, click the drop-down menu and select Enable . Select Disable to end the wireless LAN.
TxPower	Enter a percentage to set the parameter of your transmission power consumption.
Radio Mode	Click the drop-down menu and select either b/g , b , or g for the wireless mode.
Auto Channel Select	Click the drop-down menu and select On to have the wireless access point automatically select the channel with the least interference. Select Off to configure manually.
Channel	If the auto channel select is off, you can manually select the wireless access point. The default is 6.
Beacon Period	Enter a beacon period in ms to determine the frequency of the beacon to keep the network synchronized. This is optional.

Field	Description
DTIM Period	Enter a value to set the delivery traffic indication message. The DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages.
WiFi 1	
SSID	Enter an SSID name (max. 32 characters). The SSID is an alphanumeric name shared by devices on the wireless network.
Hide SSID	Click the drop-down menu and select On to hide the SSID or Off to allow others to see your SSID.
TxRate	Click the drop-down menu and select Auto to automatically determine the transmission rate or select a transmission rate (max. 54Mbps).
WDS ¹	Click the drop-down menu and select Enable if you would like to enter the wireless MAC of other wireless access points or routers that are in the same WDS.
Apply Changes	Click to save your changes.

Notes:

¹ If you enable WDS, check that all other WDS APs are enabled, configured with the same channel, SSID, and encryption keys, and that each AP has a different LAN port IP address.

WiFi Security

WiFi security enables you to configure the WEP, WPA, or WPA2 security settings.

Select **WiFi Security** in the **WiFi Setup** menu to access the WiFi security window; see [Figure 6-2](#).

Figure 6-2 WiFi Security window

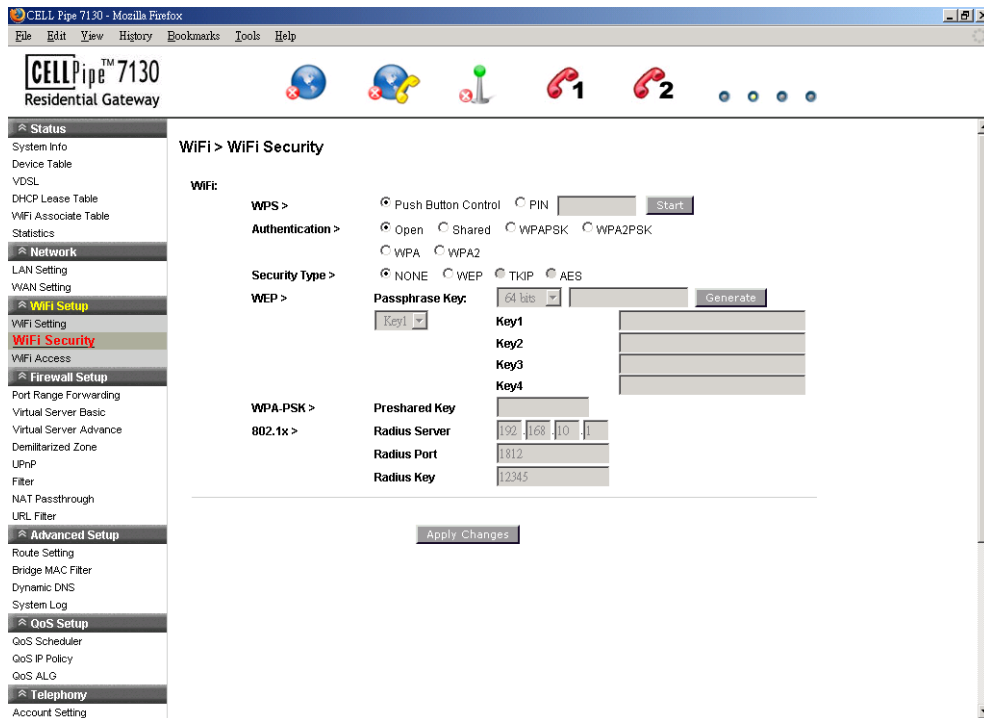


Table 6-2 describes the fields of the WiFi Security settings window.

Table 6-2 Field descriptions

Field	Description
WPS	Enable Push Button Control or enable PIN and enter your PIN number and click Start .
Authentication	Select one of the following encryption methods for the wireless network: <ul style="list-style-type: none"> • Open • Shared • WPAPSK • WPA2PSK • WPA • WPA2
Security Type	Select one of the following for the security type: <ul style="list-style-type: none"> • NONE • WEP • TKIP • AES

Field	Description
WEP	
Passphrase Key	Select a level of encryption (64 bits or 128 bits). Enter a passphrase key consisting of 8 to 63 alphanumeric characters and click Generate .
Key 1 to 4	Select either Key1 , Key2 , Key3 , Key4 . Enter a WEP key in the respective field. The WEP key must: <ul style="list-style-type: none"> • contain letters from A to F and numbers from 1 to 9 • contain 10 characters for 64 bit and 26 characters for 128 bit encryption
WPA-PSK	
Preshared Key	Enter a preshared key consisting of 8 to 63 alphanumeric characters.
802.1x	
Radius Server	Enter the IP address of the RADIUS server.
Radius Port	Enter the port number of the RADIUS server.
Radius Key	Enter the key of the RADIUS server.
Apply Changes	Click to save your changes.

WiFi Access

The WiFi Access window enables you to configure restrictions on some of the clients associated with the gateway.

Select **WiFi Access** in the **WiFi Setup** menu to access the WiFi Access window; see [Figure 6-3](#) below.

Figure 6-3 WiFi Access window

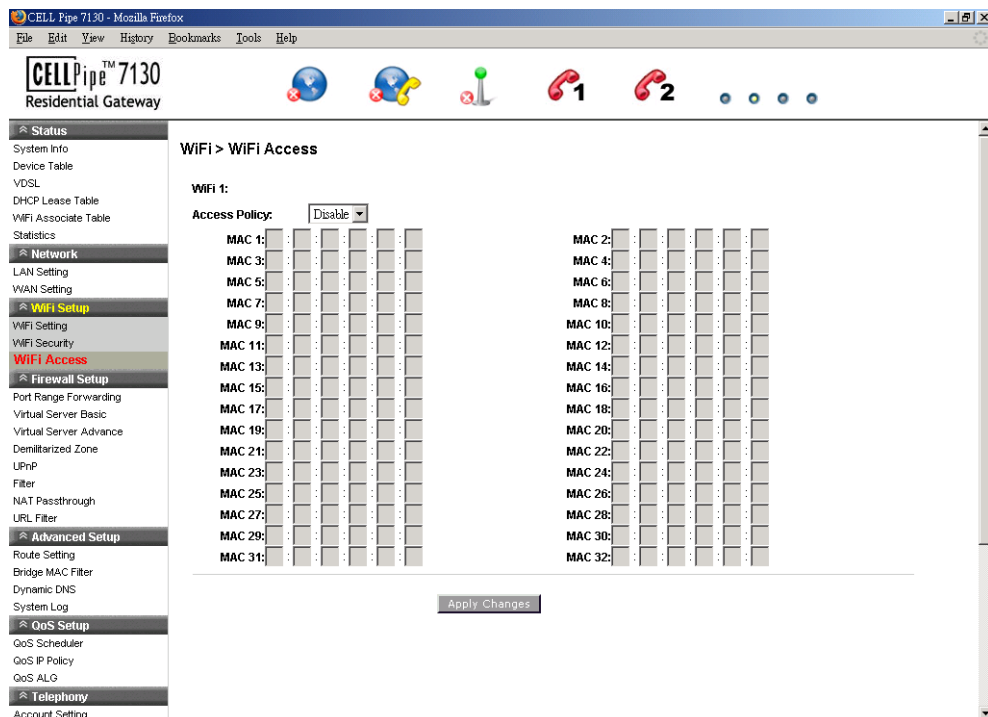


Table 6-3 describes the fields of the WiFi Access window.

Table 6-3 Field descriptions

Field	Description
Access Policy	Select one of the following: <ul style="list-style-type: none"> Disable to turn off WiFi filtering Allow to permit access from the specified MAC address. Deny to deny access from the specified MAC address.
MAC 1 to 32	Enter up to 32 MAC addresses to control access for these addresses.
Apply Changes	Click to save your changes.