

# RTSA04NU

## User´s Manual

### (Ed1.1)



## OBJETIVOS Y SERVICIOS DE VALOR AÑADIDO S.L.

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## 1.- Introduction

The device supports multiple line modes. With four 10/100 base-T Ethernet interfaces at the user end, the device provides high-speed ADSL broadband connection to the Internet or Intranet for high-end users like net bars and office users. It provides high performance access to the Internet with a downstream rate of 24 Mbps and an upstream rate of 1 Mbps. It supports 3G WAN, 3G backup, and Samba for USB storage. The device supports WLAN access, such as WLAN AP or WLAN device, to the Internet. It complies with specifications of IEEE 802.11, 802.11b/g/n, WEP, WPA2, and WPA/WPA2 Mixed PSK security. The WLAN of the device supports 2T2R.

### FCC STATEMENT



FCC ID 2AFTVRTSA04NU

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or tv interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

### FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

The device is only operated from channel 1 to channel 11, and the channels cannot be configured by the user.

The safety distance is 34.5 cm for the router with any 3G module and without other radio equipment.

### 1.1.- Packing List

- 1 x ADSL2+Router 11N 4 Ports Eth with USB (RTSA04NU)
- 1 x PSU 12V-1A
- 1 x RJ11 telephone cable, 2 meters length
- 1 x RJ45 Ethernet cable, 2 meters length
- 1xDouble Filter
- 1xPrinted QIG

### 1.2.- Safety Precautions

Take the following instructions to prevent the device from risks and damage caused by fire or electric power:

- Use the type of power marked in the volume label.
- Use the power adapter in the product package.
- Pay attention to the power load of the outlet or prolonged lines. An overburden power outlet or damaged lines or plugs may cause electric shock or fire accidents. Check the power cords regularly. If you find any damage, replace it at once.
- Proper space left for heat dissipation is necessary to avoid damage caused by overheating to the device. The long and thin holes on the device are designed for heat dissipation to ensure that the device works normally. Do not cover these heat dissipation holes.
- Do not put this device close to a heat source or under a high temperature occurs. Keep the device away from direct sunshine.
- Do not put this device close to an overdamp or watery place. Do not spill fluid on this device.
- Do not connect this device to a PC or electronic product unless instructed by our customer engineer or your broadband provider. Wrong connection may cause power or fire risk.
- Do not place this device on an unstable surface or support.

### 1.3.- LEDs and Interfaces

#### Front Panel

The following table describes the LEDs of the device **(FROM LEFT TO RIGHT)**

LED	Color	Status	Description
Power	Green/Red	Off	Router powered off
		Red	Failure on power-on self-test
		Solid Green	Router powered on correctly.
ADSL	Green	Off	Router powered off
		Blinking 2Hz	No line detected
		Blinking 4Hz	Line training
		Solid	Line up
Internet	Green/Red	Blinking Green	PPP/DHCP negotiation
		Solid Green	PPP/DHCP up
		Quick Blinking Green	Tx/Rx traffice on line
		Solid Red	Authentication failed
WLAN	Green	On	Wi-Fi connection is available.
		Off	Wi-Fi connection is unavailable.
		Blinking Green	Negotiation or traffic on line.
LAN4-LAN1	Green	On	Ethernet connection is available.

LED	Color	Status	Description
		Off	Ethernet connection is unavailable.
USB	Green/Red	Blinking Green	Negotiation
		Solid Green	Up
		Quick Blinking Green	Tx/Rx traffic on line
		Off	Traffic through broadband interface
WPS	Green	Solid Green	WPS active
		Blinking 2Hz Green	WPS negotiation open



### Rear Panel

The following table describes the interface of the device **(FROM LEFT TO RIGHT)**.

Interface/Button	Description
POWER	Interface connecting to the power adapter. The power adapter output is: 12V DC, 800mA
ON/OFF	Push to power on/off the device.
WLAN/WPS	<ul style="list-style-type: none"> <li>● Press the button for at least <b>3 second to enable WLAN function.</b></li> <li>● Press the button for more than <b>10 seconds to enable WPS function.</b></li> </ul>
RESET	Reset to the factory defaults. To restore factory defaults, keep the device powered on and push a paper clip into the hole. Press down the button for <b>more than 10 seconds and then release.</b>
4/3/2/1	Ethernet RJ-45 interfaces for connecting computer or ethernet devices.
DSL	RJ-11 interface connecting to a telephone set through a telephone cable.
USB	Connecting to a 3G data card



#### 1.4.- System Requirements

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- A 10 baseT/100BaseT Ethernet card is installed on your PC.
- A hub or switch (attached to several PCs through one of Ethernet interfaces on the device)
- Operating system: Windows Vista, Windows 7, Windows 8, Windows 98SE, Windows 2000, Windows ME or Windows XP
- Internet Explorer V5.0 or higher, Netscape V4.0 or higher, or Firefox 1.5 or higher

#### 1.5.- Features

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- Various line modes
- External PPPoE dial-up access
- Internal PPPoE and PPPoA dial-up access
- Leased line mode
- 1483B, 1483R, and MER access
- Multiple PVCs (eight at most) and these PVCs can be isolated from each other
- A single PVC with multiple sessions
- Multiple PVCs with multiple sessions
- Binding of ports with PVCs
- 802.1Q and 802.1P protocol
- DHCP server
- NAT and NAPT
- Static route
- Firmware upgrade: Web, TFTP, FTP
- Reset to the factory defaults
- DNS relay
- Virtual server
- DMZ
- Two-level passwords and user names
- Web user interface
- Telnet CLI
- System status display
- PPP session PAP and CHAP
- IP filter
- IP QoS
- Samba
- Remote access control
- Line connection status test
- Remote management (telnet and HTTP, TR069)
- Backup and restoration of configuration file
- Ethernet interface supports crossover detection, auto-correction and polarity correction
- UPnP
- 3G WAN and 3G Backup
- Samba for USB storage



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## 2.- Hardware Installation

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- Step 1** Connect the **ADSL** port of the device and the **Modem** port of the splitter with a telephone cable (if Splitter is available).
- Step 2** Connect the phone to the **Phone** port of the splitter through a telephone cable. Connect the incoming line to the **Line** port of the splitter.
- The splitter has three ports:
- Line: Connect to a wall phone port (RJ-11 jack).
  - Modem: Connect to the DSL port of the device.
  - Phone: Connect to a telephone set.
- Step 3** Connect an **Eth** port of the device to the network card of the PC through an Ethernet cable (MDI/MDIX).

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**Note:**

Use twisted-pair cables to connect the device to a Hub or switch.

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- Step 4** Plug one end of the power adapter to the wall outlet and the other end to the **Power** port of the device.
- Step 4** If Splitter is not available, then plug the RJ11 cable to the **ADSL** port on the outer in one end, and to the ADSL socket on the other end.

Installing a telephone directly before the splitter may lead to failure of connection between the device and the central office, or failure of Internet access, or slow connection speed. If you really need to add a telephone set before the splitter, you must add a microfilter before a telephone set. Do not connect several telephones before the splitter or connect several telephones with the microfilter.

Now you have connection to the Internet.

## 3.- ADVANCED WEB

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Enter below URL in the WEB Explorer to access to Advanced WEB UI:

**http://192.168.1.1**

Credentials are **admin** as user and **1234** as password.

### 3.1.- STATUS

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First we can see device status from page **Estado → Dispositivo** (see picture below).

This page is showing information about System, WAN, LAN, DSL and DNS. Device information will change depending on its configuration. This page will auto refresh after few seconds, although there's a refresh button that will update information immediately.



**Estado del dispositivo**

*Esta página proporciona información del estado actual del Router.*

Sistema	
Nombre	RTSA04NU
Tiempo de actividad	1:12
Versión del Firmware	RTSA04NU-g0.1
DSP	4926d722
Servidor de Nombres	80.58.61.250, 80.58.61.254
Puerta de enlace IPv4	ppp0
Uso de CPU	1%
Fecha y Hora	3/9/2015 18:22:34

Puerta de enlace IPv6

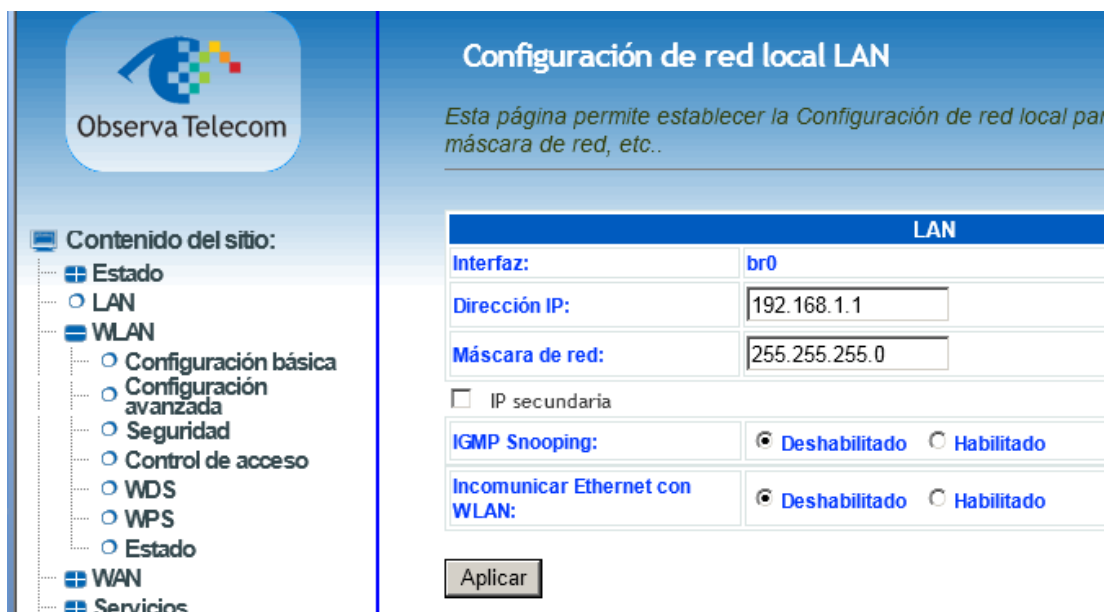
DSL	
Estado operacional	ADSL2+,SHOWTIME.LO
Velocidad de subida	830 kbps
Velocidad de bajada	10047 kbps

Configuración LAN	
Dirección IP	192.168.1.1
Máscara de red	255.255.255.0
Servidor DHCP	Habilitado
LAN-MAC-Address	6CFDB9D6637F

### 3.2.- LAN

You can configure the LAN IP address according to the actual application. The preset IP address is 192.168.1.1. You can use the default settings and DHCP service to manage the IP settings for the private network. The IP address of the device is the base address used for DHCP. To use the device for DHCP on your LAN, the IP address pool used for DHCP must be compatible with the IP address of the device. The IP address available in the DHCP IP address pool changes automatically if you change the IP address of the device.

You can also enable the secondary LAN IP address. The two LAN IP addresses must be in different networks. Choose LAN and you will see picture below.



**Configuración de red local LAN**

*Esta página permite establecer la Configuración de red local para máscara de red, etc..*

LAN	
Interfaz:	br0
Dirección IP:	192.168.1.1
Máscara de red:	255.255.255.0
<input type="checkbox"/> IP secundaria	
IGMP Snooping:	<input checked="" type="radio"/> Deshabilitado <input type="radio"/> Habilitado
Incomunicar Ethernet con WLAN:	<input checked="" type="radio"/> Deshabilitado <input type="radio"/> Habilitado

Aplicar

### 3.3.- WLAN

This section describes the wireless LAN and basic configuration. A wireless LAN can be as simple as two computers with wireless LAN cards communicating in a peer-to-peer network or as complex as a number of computers with wireless LAN cards communicating through access points which bridge network traffic to wired LAN.

#### 3.3.1 Basic Configuration

Choose **WLAN** → **Configuración Básica**, page shown will be the one below.

In this page, you can configure the parameters of wireless LAN clients that may connect to the device.



The following table describes the parameters in this page.

Field	Description
Deshabilitar interfaz WLAN (Disable Wireless)	Select this to turn Wi-Fi on or off.
Banda	Select the operational Band Mode: B, G, N, B+G, G+N, B+G+N,
Modo (mode)	Select AP mode: Access Point or AP+WDS (wireless Bridge Mode)
Button 'Varios AP'	Select this to open MultiAP isolation page and its options.
SSID (Wireless Network Name)	The Wireless Network Name is a unique name that identifies a network. All devices on a network must share the same wireless network name in order to communicate on the network. If you decide to change the wireless network name from the default setting,

Field	Description
	enter your new wireless network name in this field.
Anchura del canal (Band Width)	Select the appropriate band of <b>20M</b> , <b>40M</b> or <b>20M/40M</b> from the pull-down menu.
Control de banda lateral (Control Sideband)	Choose the channel selection mode as <b>Upper</b> or <b>Lower</b> .
Número de canal (Wireless Channel)	Select the wireless channel from the pull-down menu.
Clientes activos (Active clients)	Click Mostrar clientes activos button to show the WMAC address of clients connected and come traffic statistics

### 3.3.2 Advanced Configuration

This function is used to modify the standard 802.11 wireless radio settings. It is suggested not to change the defaults, as incorrect settings may reduce the performance of your wireless radio.

The default settings provide the best wireless radio performance in most environments.

From this page is also possible avoid Wireless network broadcast (Difusión SSID).



**Configuración avanzada WLAN**

*Estos parámetros le permiten configurar opciones avanzadas para la si no se tienen conocimientos técnicos sobre los cambios aplicados.*

Configuración avanzada WLAN	
Umbral de fragmentación:	2346 (256-2346)
Umbral RTS:	2347 (0-2347)
Intervalo entre tramas baliza:	100 (20-1024 ms)
Velocidad de tasa datos:	Auto
Tipo de preámbulo:	<input checked="" type="radio"/> Preámbulo largo <input type="radio"/> Preámbulo corto
Difusión SSID:	<input checked="" type="radio"/> Habilitado <input type="radio"/> Deshabilitado
Bloqueo de retransmisión:	<input type="radio"/> Habilitado <input checked="" type="radio"/> Deshabilitado
Protección:	<input type="radio"/> Habilitado <input checked="" type="radio"/> Deshabilitado
Agregación:	<input checked="" type="radio"/> Habilitado <input type="radio"/> Deshabilitado
SGI:	<input type="radio"/> Habilitado <input checked="" type="radio"/> Deshabilitado

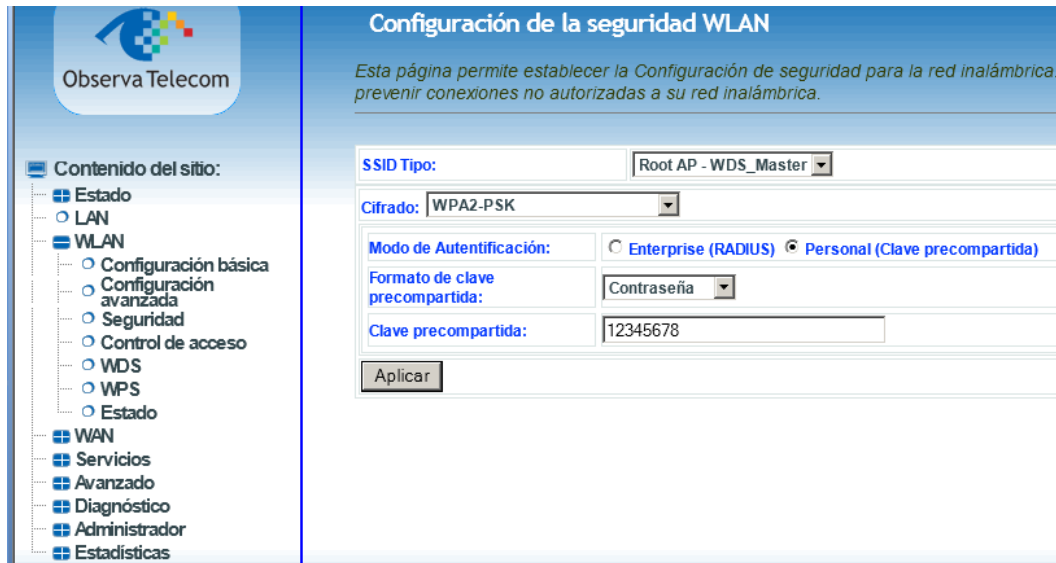
Aplicar

### 3.3.3 Security

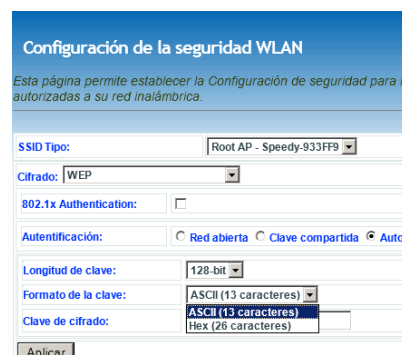
Select **WLAN** → **Seguridad**. The page shown in the following figure appears. Wireless security is vital to your network to protect the wireless communication among wireless stations, access points and wired network. The available Wireless security modes are:

None, WEP 64&128, WPA2 (AES), WPA/WPA2 Mixed

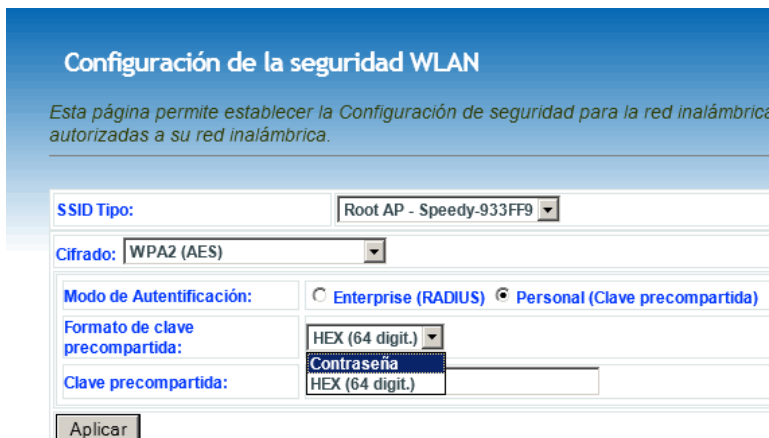
It is NOT recommended to leave Wireless security as None.



When it is selected **WEP**, you can choose the Key Length **64** or **128 bits**, ASCII or HEX:



When the Security Mode is set as **WPA2 AES**, or **WPA/WPA2 Mixed**, you can enter an Hexadecimal or alphanumeric Password:



**Configuración de la seguridad WLAN**

*Esta página permite establecer la Configuración de seguridad para la red inalámbrica. H autorizadas a su red inalámbrica.*

SSID Tipo:

Cifrado:

Modo de Autenticación:  Enterprise (RADIUS)  Personal (Clave precompartida)

Formato de clave precompartida:

Clave precompartida:

The following table describes the parameters of this page.

For WEP:

Field	Description
Longitud de la clave (WEP Key Length)	Choose the WEP key length. You can Choose <b>64-bit</b> or <b>128-bit</b> .
Formato de la clave (Key Format)	Choose ASCII or Hexadecimal.
Clave de cifrado (WEP Key)	The Encryption keys are used to encrypt the data. Both the modem and wireless stations must use the same encryption key for data transmission. An example for default key could be <b>8wIHK</b> .

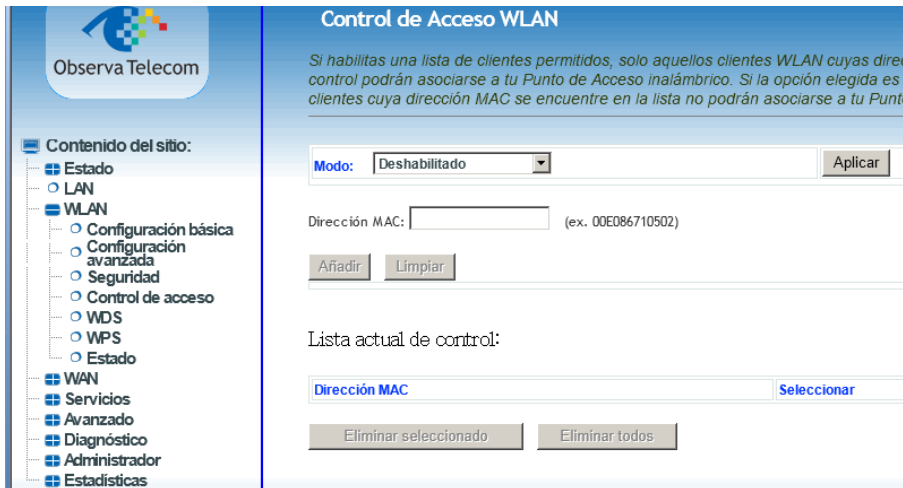
For other types of cyphering:

Field	Description
Cifrado (Security mode)	Configure the wireless encryption mode. You can choose <b>None</b> , <b>WEP</b> , <b>WPA2</b> or <b>WPA/ WPA2 Mixed</b> . <ul style="list-style-type: none"> <li>Wired equivalent privacy (WEP) encrypts data frames before transmitting over the wireless network.</li> <li>Wi-Fi protected access (WPA) is a subset of the IEEE802.11i security specification draft.</li> <li>WPA/WPA2 Mixed is the collection of WPA and WPA2 encryption modes. The wireless client establishes the connection between the modem through WPA or WPA2.</li> </ul> Key differences between WPA and WEP are user authentication and improved data encryption.
Algoritmo de Cifrado WPA2 (WPA2 Encryption)	When WPA2 is selected, you can select WPA2 encryption as <b>AES</b> or <b>TKIP+AES</b> .
Modo de autenticación (Authentication Mode)	<ul style="list-style-type: none"> <li>Select <b>PSK (Pre-Shared Key)</b>, enter the pre-shared key in the <b>Pre-Shared Key</b> field.</li> <li>Select <b>Enterprise (RADIUS)</b>, enter the port, IP address, and password of the Radius server. You need to enter the username and password provided by the Radius server when the wireless client connects the modem.</li> </ul> If the encryption is set to <b>WEP</b> , the modem uses 802.1X authentication, which is Radius authentication.

### 3.3.4 Access Control

From this page is possible to accept or deny several devices basing control on MAC Address.

Choose one of the modes (Disabled, Allowed customers, Non Authorized customers). Click apply to enable the mode you want. Then add a MAC address in the field below and click Add button. List below named *Lista actual de control*, will show if devices are allowed or not.



The screenshot shows the 'Control de Acceso WLAN' configuration page. On the left is a navigation menu with 'WLAN' selected. The main content area has a title 'Control de Acceso WLAN' and a descriptive paragraph. Below the text, there is a 'Modo:' dropdown menu set to 'Deshabilitado' and an 'Aplicar' button. A 'Dirección MAC:' input field is shown with an example '(ex. 00E086710502)'. Below this are 'Añadir' and 'Limpiar' buttons. A section titled 'Lista actual de control:' contains a table with a 'Dirección MAC' column and a 'Seleccionar' button. At the bottom of this section are 'Eliminar seleccionado' and 'Eliminar todos' buttons.

### 3.3.5 WDS

On this page you can configure the **WDS** (Wireless Distribution System) to operate a second router in repeater mode (Wireless Bridge).

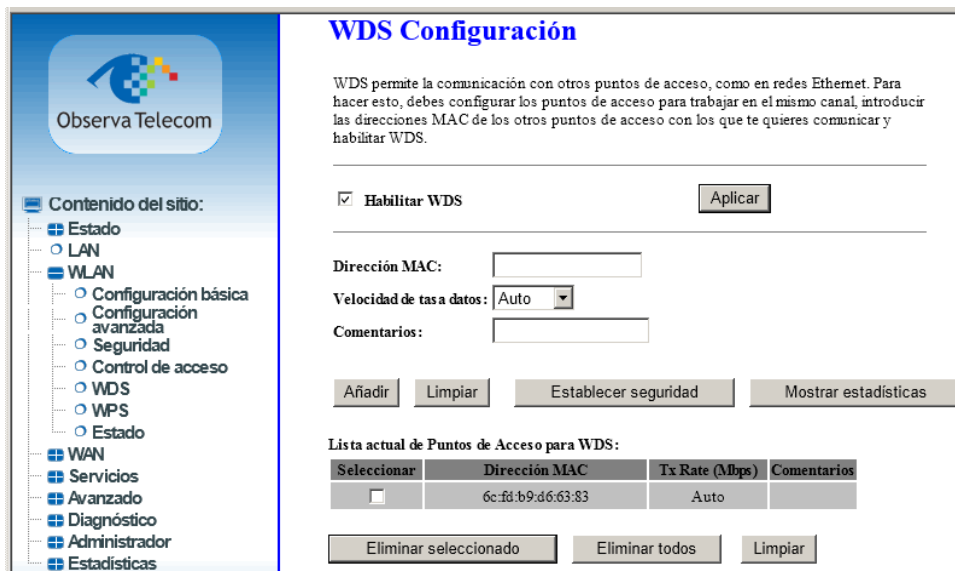
First, select the AP in **WLAN** → **Configuración Básica**, AP+WDS mode for both AP Master station and Bridge Station (Slave). Select different SSID but set the same WiFi channel, encryption type, and encryption key:



The screenshot shows the 'Configuración básica para WLAN' configuration page. On the left is a navigation menu with 'WLAN' selected. The main content area has a title 'Configuración básica para WLAN' and a descriptive paragraph. Below the text, there is a 'WLAN' section with a 'Deshabilitar interfaz WLAN' checkbox. The 'Banda:' dropdown is set to '2.4 GHz (B+G+N)'. The 'Modo:' dropdown is set to 'AP+WDS' with a 'Varios AP' button. The 'SSID:' field contains 'AP+WDS'. The 'Anchura del canal:' dropdown is set to '20/40MHZ'. The 'Control de banda lateral:' dropdown is set to 'Upper'. The 'Número de canal:' dropdown is set to '6'. The 'Potencia de radio (mW):' dropdown is set to '60 mW'. There is a 'Clientes activos:' button labeled 'Mostrar clientes activos'. At the bottom is an 'Aplicar' button.

Go to the page to enable **WDS** functionality and click **Apply**.

You must configure crossed **MAC addresses**: in Master station you must enter the MAC address of Slave Station and viceversa:



**WDS Configuración**

WDS permite la comunicación con otros puntos de acceso, como en redes Ethernet. Para hacer esto, debes configurar los puntos de acceso para trabajar en el mismo canal, introducir las direcciones MAC de los otros puntos de acceso con los que te quieres comunicar y habilitar WDS.

**Habilitar WDS**

Dirección MAC:

Velocidad de tasa de datos:

Comentarios:

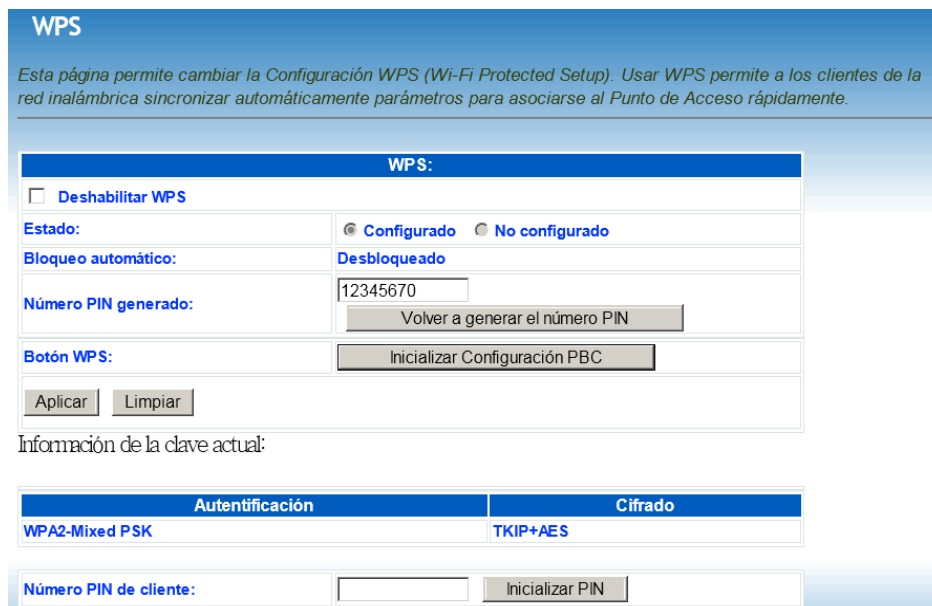
Lista actual de Puntos de Acceso para WDS:

Seleccionar	Dirección MAC	Tx Rate (Mbps)	Comentarios
<input type="checkbox"/>	6c:f3:b9:d6:63:83	Auto	

In the case of slave you must configure you a range of different IP to the Master, and disable the DHCP server.

### 3.3.6 WPS

Click WPS link and you will find the page below.



**WPS**

*Esta página permite cambiar la Configuración WPS (Wi-Fi Protected Setup). Usar WPS permite a los clientes de la red inalámbrica sincronizar automáticamente parámetros para asociarse al Punto de Acceso rápidamente.*

**WPS:**

**Deshabilitar WPS**

Estado:  **Configurado**  **No configurado**

Bloqueo automático: **Desbloqueado**

Número PIN generado:

Botón WPS:

Información de la clave actual:

Autenticación	Cifrado
WPA2-Mixed PSK	TKIP+AES

Número PIN de cliente:



Field	Description
Deshabilitar WPS (Disable WPS)	Choose to disable WPS function. By default WPS function is enabled, but can be only launched first time from SW page.
Estado (Configuration State)	When <b>Configured</b> state is selected, wireless parameters (for example, the encryption password) are provided by the CPE in WPS negotiation. When <b>Unconfigured</b> state is selected, wireless parameters are provided by the connecting user end (for example, PC).
Número PIN generado (PIN)	Insert this number is your PC is asking you for it. You can generate it and change its value.
Inicializar configuración PBC (Push Button Configuration)	Press the button, the CPE will connect the station automaticlly.
Número PIN de Cliente (Input Station PIN)	You need to enter a pin the station which mode is Enrollee Generate. Press the button to connect the other with the pin.

### 3.3.7 MULTIPLE SSID

Access to several SSID configuration through **Varios AP** button in **WLAN** → **Configuración Básica**

#### Configuración básica para WLAN

Esta página te permitirá configurar los parámetros básicos de la red local inalámbrica. Desde aquí se establecen parámetros como el cifrado utilizado en la red inalámbrica y otros parámetros de red.

WLAN	
<input type="checkbox"/>	Deshabilitar interfaz WLAN
Banda:	2.4 GHz (B+G+N)
Modo:	AP <b>Varios AP</b>
SSID:	Speedy-A00248
Anchura del canal:	20/40MHZ
Control de banda lateral:	Upper
Número de canal:	Auto
Potencia de radio (mW):	60 mW

### Multiple APs


Esta página muestra y actualiza la información de la red para varios Puntos de Acceso

Bloqueo VAP:  Deshabilitar  Habilitar

N.	Habilitar	Banda	SSID	Velocidad de tasa datos	Difusión SSID	WMM	Bloqueo de retransmisión	Active Client List
AP1	<input checked="" type="checkbox"/>	2.4 GHz (B+G+N)	Movistar-Wi-fi	Auto	Habilitado	Habilitado	Habilitado	Mostrar
AP2	<input type="checkbox"/>	2.4 GHz (B+G+N)	CTC-2222	Auto	Habilitado	Habilitado	Deshabilitado	Mostrar
AP3	<input type="checkbox"/>	2.4 GHz (B+G+N)	CTC-3333	Auto	Habilitado	Habilitado	Deshabilitado	Mostrar
AP4	<input type="checkbox"/>	2.4 GHz (B+G+N)	CTC-4444	Auto	Habilitado	Habilitado	Deshabilitado	Mostrar

### 3.3.8 WLAN STATUS

Click WLAN → Estado, you will find the page below.



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Contenido del sitio:

- Estado
- LAN
- WLAN
  - Configuración básica
  - Configuración avanzada
  - Seguridad
  - Control de acceso
  - WDS
  - WPS
  - Estado

#### Estado WLAN

Esta página muestra el estado actual de la red inalámbrica.

WLAN Configuración	
Modo	AP+WDS
Banda	2.4 GHz (B+G+N)
SSID	WDS_Master
Número de canal	6
Cifrado	WPA2(AP), 2144778336(WDS)
BSSID	6c:fd:b9:d6:63:7f
Clientes activos	0

### 3.4.- WAN

In this menu, user can manage parameters related to internet connection.

#### 3.4.1 DSL WAN

To configure internet click on WAN → DSL WAN, page shown is the one below.

### Configuración WAN DSL

Esta página permite configurar los parámetros de la conexión DSL WAN del Router.

---

Modo WAN:  ADSL  Ethernet **Aplicar**

VPI:  VCI:

Encapsulación:  LLC  VC-Mux

Modo del canal:

Habilitar NAPT:  Habilitar IGMP:  Habilitar QoS:

Ruta por defecto:  Deshabilitar  Habilitar  Auto

Estado:  Habilitar  Deshabilitar

---

#### Mapeo de puertos

<input type="checkbox"/> LAN_1	<input type="checkbox"/> LAN_2
<input type="checkbox"/> LAN_3	<input type="checkbox"/> LAN_4
<input type="checkbox"/> WLAN(ROOT/SSID1)	
<input type="checkbox"/> WLAN(SSID2)	<input type="checkbox"/> WLAN(SSID3)
<input type="checkbox"/> WLAN(SSID4)	<input type="checkbox"/> WLAN(SSID5)

Añadir
Modificar

This page contains several configurable parameters in order to configure an internet connection. Most important ones are listed below.

Field	Description
PVC Settings	<p><b>VPI:</b> The virtual path between two points in an ATM network, and its valid value is from <b>0</b> to <b>255</b>.</p> <p><b>VCI:</b> The virtual channel between two points in an ATM network, ranging from <b>32</b> to <b>65535</b> (0 to 31 is reserved for local management of ATM traffic).</p>
Protocol (Modo del canal)	<p>You can select from the drop-down list.</p> <p style="font-family: monospace; font-size: small;"> <span style="background-color: #0070C0; color: white; padding: 2px;">1483 Bridged</span>                      1483 MER                      PPPoE                      PPPoA                      1483 Routed                      1577 Routed                      DS-Lite                      6rd                 </p>
Encapsulation Mode	Select the method of encapsulation provided by your ISP. You can select <b>LLC</b> or <b>VCMUX</b> .

Set the VPI and VCI. Choose if the Protocol is PPPoE, PPPoA ... as shown in the page below. In table **Configuración PPP**, it is also necessary enter user name and password, and connection kind. In the picture below connection is Continuous.

To enable/disable default route there are three options:

- *Habilitar*: default route will be enabled by default. Only one PVC can be configured like that.
- *Deshabilitar*: default route will be disabled by default.
- *Auto*: default route will be automatic and PVC will be up when DSL line matches. User can configure as much PVC's as wanted in mode Auto.

VPI:  VCI:

Encapsulación:  LLC  VC-Mux

MTU:  MRU:

Modo del canal:

Habilitar NAPT:  Habilitar IGMP:  Habilitar QoS:

Ruta por defecto:  Deshabilitar  Habilitar  Auto

Estado:  Habilitar  Deshabilitar

IP Protocolo:

**Configuración PPP:**

Usuario:  Contraseña:

Tipo:  Tiempo expiración (min):

In table below it's possible to see how PVC's are configured. In the example below there are two PPPoE PVC's and one bridge. Both PPP connections are configured like Auto, but only one is up.

Seleccionar	Interfaz	Modo	VPI	VCI	Encapsulación	NAPT	IGMP	IP QoS	Dirección IP	Remoto IP	Máscara de red	Usuario Nombre	Ruta por defecto	Estado	Acciones
<input type="radio"/>	ppp1_vc1	PPPoE	8	36	LLC	On	Off	Off				tr069movistar	Auto-On	Habilitado	
<input type="radio"/>	ppp3_vc3	PPPoE	0	35	LLC	On	Off	Off				tr069movistar	Auto-Off	Habilitado	
<input type="radio"/>	vc0	br1483	10	35	LLC			Off						Habilitado	

### 3.4.2 ATM CONFIGURATION

From this page is possible to configure ATM parameters for each PVC.

**Configuración ATM**

Desde esta página se pueden configurar los parámetros para la conexión ATM del Router. Desde aquí se pueden cambiar parámetros como VPI, VCI o QoS.

VPI:  VCI:  QoS:

PCR:  CDVT:  SCR:  MBS:

Tabla VC ATM:

Seleccionar	VPI	VCI	QoS	PCR	CDVT	SCR	MBS
<input type="radio"/>	8	35	UBR	6000	0	---	---
<input type="radio"/>	0	33	UBR	6000	0	---	---
<input type="radio"/>	8	37	UBR	6000	0	---	---
<input type="radio"/>	10	35	UBR	6000	0	---	---

### 3.4.3 ADSL CONFIGURATION

This page allows configure ADSL modulation parameters.

#### Configuración ADSL

Esta página permite configurar los parámetros de modulación ADSL del Router.

Modulación ADSL:
<input type="checkbox"/> G.Lite
<input checked="" type="checkbox"/> G.Dmt
<input type="checkbox"/> T1.413
<input checked="" type="checkbox"/> ADSL2
<input checked="" type="checkbox"/> ADSL2+
AnnexL:
(Nota: Sólo ADSL 2 soporta AnnexL)
<input type="checkbox"/> Habilitado
AnnexM:
(Nota: Sólo ADSL 2/2+ soporta AnnexM)
<input type="checkbox"/> Habilitado
Capacidad ADSL:
<input checked="" type="checkbox"/> Habilitar Bitswap
<input checked="" type="checkbox"/> Habilitar SRA
ADSL Máscara de tono:
<input type="text" value="Máscara de tono"/>
ADSL Máscara PSD:
<input type="text" value="Máscara PSD"/>

### 3.4.4 3G configuration

If you want to access the Internet through 3G connection, a 3G USB data card is required. Connect the 3G data card to the USB interface of the Router and go to this page. 3G backup is enable by default, which means that if a 3G dongle is plugged and there is a fail in DSL line, 3G will be up and Internet will be served through 3G dongle.

#### Configuración 3G

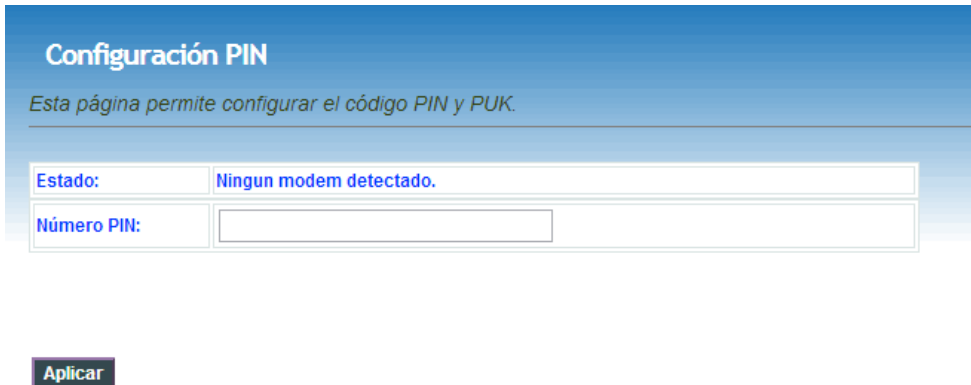
Esta página permite configurar los parámetros para la conexión 3G.

Backup 3G:	<input type="radio"/> Deshabilitar <input checked="" type="radio"/> Habilitar
Tipo de red:	<input type="text" value="Automático"/>
APN:	<input type="text" value="internet"/>
Número de marcación:	<input type="text" value="*99#"/>
Autenticación:	<input type="text" value="PAP"/>
Usuario:	<input type="text" value="internet"/>
Contraseña:	<input type="text" value="....."/>
NAPT:	<input type="radio"/> Deshabilitar <input checked="" type="radio"/> Habilitar
Tipo de conexión	<input type="text" value="Continuo"/>
Tiempo para conexión de respaldo ADSL (seg):	<input type="text" value="60"/>
Tiempo para desconexión 3G cuando restablece ADSL (seg):	<input type="text" value="60"/>

Field	Description
Enable 3G Backup	You may choose to enable or disable 3G backup.
Network type	It's possible to select 2G or 3G by default is in Auto mode.
APN	Enter the access point.
Dial_Number	Enter the dial number.
Account	Enter the account.
Password	Enter the password.
NAPT	Enable or Disable.
Connection Mode	Continuous and On demand
Inactivity Timeout	Set the period without flow before disconnecting 3G connection. When 0 is set, 3G connection will always be connected regardless of flow.
Backup delay time	Set the period before starting 3G dial after ADSL disconnection.

### 3.4.5 PIN CONFIGURATION

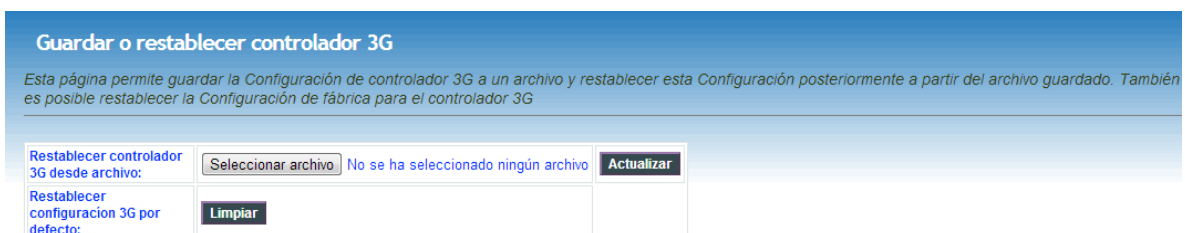
Click **Pin Configuration** to enable the 3G PIN code as shown in the following figure. Label "Estado" will inform you about dongle status, if PIN is needed or not, or if modem has been detected.



### 3.4.6 3G DRIVER

By default there is a list of dongles supported by HomeStation, but there will be some of them, that could be not supported. For this, Observa CPE allows to load new drivers in order to support new 3G dongles. If there is a restore to default settings, these loaded drivers will be removed.

Load new driver and reboot CPE in order to make effective the change. Also you can clean flash memory of these drivers by clicking on 'Limpiar' button.



### 3.4.7 ETH/GRE

Use this section for configuring the settings of transparent Ethernet over GRE Tunnel:



The screenshot shows the 'Configuración del túnel GRE' page. The left sidebar contains a navigation menu with 'Contenido del sitio:' and a tree view including 'Estado', 'LAN', 'WLAN', 'WAN', 'DSL WAN', 'Configuración ATM', 'Configuración ADSL', 'Configuración 3G', 'Configuración PIN', 'Driver 3G', and 'ETH/GRE'. The main content area has the title 'Configuración del túnel GRE' and a sub-header 'Esta página permite configurar los parámetros del túnel Transparent Ethernet over GRE.' Below this, there are radio buttons for 'ETH/GRE: Deshabilitar' and 'Habilitar', with 'Habilitar' selected. The 'ETH/GRE Configuration' section includes a 'Dirección remota Peer' field with the value '0.0.0.0' and an 'Interfaz WAN' dropdown menu set to 'ppp0'. An 'Aplicar' button is located below the fields.

### 3.4.8 VPN: PPTP/L2TP

Use this section for configuring the settings of VPN(PPTP or L2TP)



The screenshot shows the 'Configuración VPN PPTP' page. The left sidebar is similar to the previous page but includes 'VPN' with sub-items 'PPTP' and 'L2TP'. The main content area has the title 'Configuración VPN PPTP' and a sub-header 'Esta página permite configurar los parámetros para VPN PPTP.' Below this, there are radio buttons for 'PPTP VPN: Deshabilitar' and 'Habilitar', with 'Habilitar' selected. The 'Servidor PPTP' section includes 'Tipo Aut.' (Auto), 'Cifrado' (Ninguno), and 'Dirección remota' (comienza desde) and 'Dirección local' fields. The 'Cuenta servidor' section includes 'Nombre', 'Nombre de Usuario', 'Túnel' (Habilitar selected), and 'Contraseña' fields. Below this is a table for 'Tabla PPTP Servidor:' with columns 'Seleccionar', 'Nombre', 'Habilitar', 'Nombre de Usuario', and 'Contraseña'. The 'Cliente PPTP' section includes 'Nombre' and 'Dirección servidor' fields. Buttons for 'Aplicar', 'Añadir', 'Eliminar seleccionado', and 'Guardar' are present.

## 3.5.- SERVICES

### 3.5.1 DHCP

By default, **Enable DHCP Server** is selected for the Ethernet LAN interface of the device. DHCP service supplies IP settings to workstations configured to automatically obtain IP settings that are connected to the device through the Ethernet port. When the device is used for DHCP, it becomes the default gateway for DHCP client connected to it. If you change the IP address of the device, you must also change the range of IP addresses in the pool used for DHCP on the LAN. The IP address pool can contain up to 253 IP addresses.

### DHCP Configuración

Esta página permite configurar los parámetros para el servidor DHCP del Router.

Modo DHCP:  Ninguno  DHCP Relay  Servidor DHCP

Habilita el servidor DHCP si necesitas asignar automáticamente direcciones IP a los dispositivos de tu red. Esta página muestra el rango de direcciones IP disponibles para los dispositivos de tu LAN.

Dirección IP: 192.168.1.1 Máscara de red: 255.255.255.0

Rango de direcciones IP asignables:  -

Máscara de red:

Tiempo máximo de validez:  segundos (-1 indica que las direcciones IP asignadas no se revocan)

Nombre de dominio:

Dirección de puerta de enlace:

Opción DNS:  Usar DNS Relay  Establecer manualmente

### 3.5.2 DNS

By clicking on **DNS → Servidor DNS** we can configure manually or automatically DNS for ipv4 and ipv6. By default DNS are set automatically.

### DNS Configuración

Esta página permite configurar las direcciones IP de los servidores DNS.

#### IPv4

Obtener DNS automáticamente

Establecer DNS manualmente

#### IPv6

Obtener DNS automáticamente

Establecer DNS manualmente



### DNS Configuración

Esta página permite configurar las direcciones IP de los servidores DNS.

#### IPv4

Obtener DNS automáticamente
  Establecer DNS manualmente
 IPv4 Enlazar interfaz WAN:

DNSv4 1:	<input type="text" value="0.0.0.0"/>	
DNSv4 2:	<input type="text"/>	
DNSv4 3:	<input type="text"/>	

#### IPv6

Obtener DNS automáticamente
  Establecer DNS manualmente
 IPv6 Enlazar interfaz WAN:

DNSv6 1:	<input type="text" value="3ffe::2"/>	
DNSv6 2:	<input type="text" value="3ffe::3"/>	
DNSv6 3:	<input type="text" value="3ffe::4"/>	

**Aplicar**

To configurate Dynamic DNS, click on **DNS → DNS Dinámico**

The device supports dynamic domain name service (DDNS). The dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, and allows access to a specified host from various locations on the Internet. Click a hyperlinked URL in the form of hostname.dyndns.org and allow remote access to a host. Many ISPs assign public IP addresses using DHCP, so locating a specific host on the LAN using the standard DNS is difficult. For example, if you are running a public web server or VPN server on your LAN, DDNS ensures that the host can be located from the Internet even if the public IP address changes. DDNS requires that an account be set up with one of the supported DDNS service providers (DynDNS.org or dlinkddns.com).

### Configuración DNS Dinámico

Esta página permite configurar una dirección DNS dinámica a través del servicio DynDNS.org o TZO.

Habilitar:

Proveedor DDNS:

Nombre de dominio:

Interfaz:

DynDns Configuración:

Nombre de Usuario:

Contraseña:

TZO Configuración:

Email:

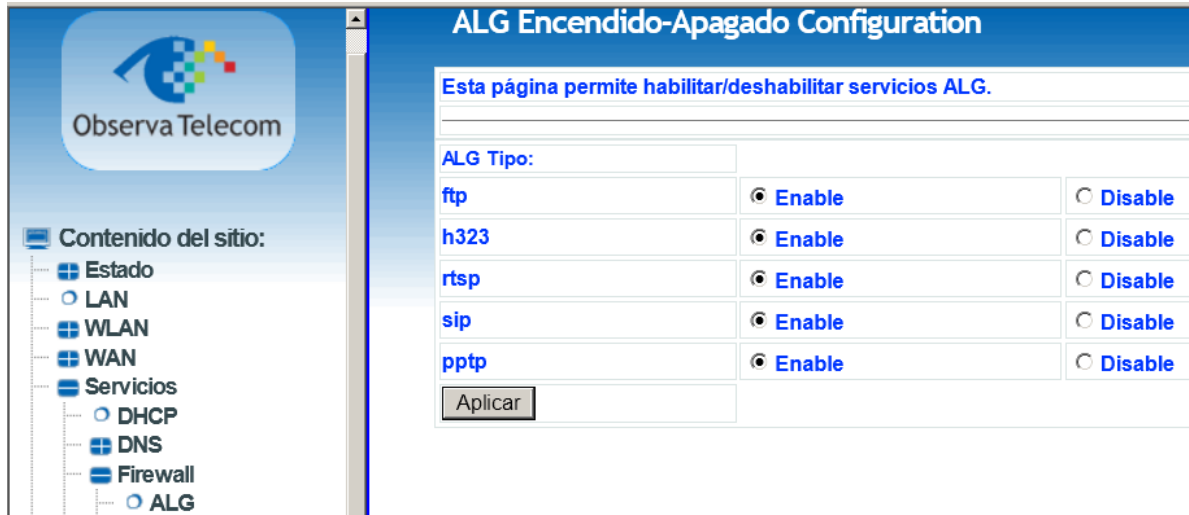
Clave:

Tabla DNS Dinámico:

Seleccionar	Estado	Nombre de dominio	Usuario Nombre	Servicio	Estado

### 3.5.3 Firewall

## ALG



**ALG Encendido-Apagado Configuration**

Esta página permite habilitar/deshabilitar servicios ALG.

ALG Tipo:	Enable	Disable
ftp	<input checked="" type="radio"/> Enable	<input type="radio"/> Disable
h323	<input checked="" type="radio"/> Enable	<input type="radio"/> Disable
rtsp	<input checked="" type="radio"/> Enable	<input type="radio"/> Disable
sip	<input checked="" type="radio"/> Enable	<input type="radio"/> Disable
pptp	<input checked="" type="radio"/> Enable	<input type="radio"/> Disable

Aplicar

## Block IP or port

Click on **Servicios** → **Firewall** → **Bloquear IP/Puerto** to access this page.

To enable a rule is necessary to fill if the action is for outgoing/incoming traffic, choose Deny or Accept and click Apply. Then, it's possible to add the rule based on the kind of traffic, protocols, ip's and ports. Rules added will be shown on the table "Tabla de filtro actual".



**Bloquear IP/Puerto**

Las entradas de esta tabla permiten restringir el paso de ciertos tipos de paquetes por tu Router. Este filtro puede ser útil para proteger o restringir el tráfico de tu red local.

Acción por defecto para el tráfico saliente  Denegar  Permitir

Acción por defecto para el tráfico entrante  Denegar  Permitir **Aplicar**

Dirección: Tráfico saliente Protocolo: TCP Regla  Denegar  Permitir

Origen Dirección IP:  Máscara de red:  Puerto:  -

Destino Dirección IP:  Máscara de red:  Puerto:  -

**Añadir**

Tabla de filtro actual:

Seleccionar	Dirección	Protocolo	Origen Dirección IP	Puerto origen	Destino Dirección IP	Puerto destino	Regla
-------------	-----------	-----------	---------------------	---------------	----------------------	----------------	-------

**Eliminar seleccionado** **Eliminar todos**

## Bloquear MAC

Click on **Servicios** → **Firewall** → **Bloquear MAC** to access to this page. In this page you can block the access depending on MAC address. In this configuration page it's possible also to choose if the restriction is for outgoing or incoming traffic and if the rule denies or accepts the traffic.





### Configuración de filtro URL

Esta página permite bloquear nombres de dominio FQDN (como tv.yahoo.com) y filtrar por palabras. Desde aquí puedes añadir/eliminar FQDN y palabras de la lista.

Bloquear URL:  Deshabilitar  Habilitar

FQDN:

URL Bloqueo Tabla:

Seleccionar	FQDN
-------------	------

Palabra utilizada:

Tabla de palabras filtradas:

Seleccionar	Palabra utilizada filtrada
-------------	----------------------------

## Block domains

Click on **Servicios** → **Firewall** → **Bloquear Dominios** to access to this page. From this page can configure those domains that are blocked, user can remove or add new domains.

### Configuración del filtro de dominios

Esta página permite configurar los dominios bloqueados. Desde aquí puedes añadir/borrar el dominio bloqueado

Bloquear dominios:  Deshabilitar  Habilitar

Dominio:

Configuración del filtro de dominios:

Seleccionar	Dominio
-------------	---------

## DMZ

Click on **Servicios** → **Firewall** → **DMZ** to access this page. Since some applications are not compatible with NAT, the device supports the use of a DMZ IP address for a single host on the LAN. This IP address is not protected by NAT and it is visible to agents on the Internet with the correct type of software. Note that any client PC in the DMZ is exposed to various types of security risks. If you use the DMZ, take measures (such as client-based virus protection) to protect the remaining client PCs on your LAN from possible contamination through DMZ.

### Configuración de la zona desmilitarizada

Una Zona Desmilitarizada DMZ permite ofrecer ciertos servicios a Internet sin comprometer la seguridad del resto de la red local. Típicamente, en la zona desmilitarizada se sitúan las máquinas que contienen los servicios que deseamos hacer accesibles a Internet, como servidores Web, servidores FTP, servidores de Correo o servidores DNS.

DMZ Host:  Deshabilitar  Habilitar

Dirección IP DMZ Host:

### 3.5.4 UPnP

Click on **Servicios** → **Upnp** to access this page. In this page, you can configure universal plug and play (UPnP). The system acts as a daemon after you enable UPnP.

UPnP is used for popular audio visual software. It allows automatic discovery of your device in the network. If you are concerned about UPnP security, you can disable it. Block ICMP ping should be enabled so that the device does not respond to malicious Internet requests.

By default UPnP is enabled for any interface, once Internet is up, UPnP will be linked automatically to that active interface unless user force the connection to another interface.



UPnP Configuración

Esta página permite configurar UPnP. Desde esta página puedes seleccionar la interfaz WAN que utilizará UPnP.

UPnP:  Deshabilitar  Habilitar

Interfaz WAN:

Aplicar

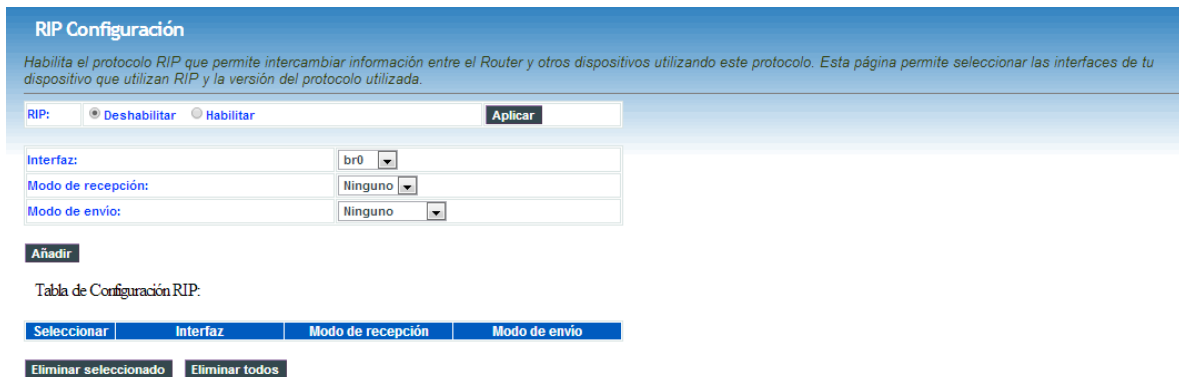
Puertos UPnP	
Active Rules:	
udp	dpt:32001 to:192.168.1.33:32001
tcp	dpt:32001 to:192.168.1.33:32001

### 3.5.5 RIP

Click on **Servicios** → **RIP** to access to this page.

This page is used to select the interfaces on your device that use RIP and the version of the protocol used.

If you are using this device as a RIP-enabled device to communicate with others using the routing information protocol, enable RIP and click Apply to save the settings. Then, you can configure interface.



RIP Configuración

Habilita el protocolo RIP que permite intercambiar información entre el Router y otros dispositivos utilizando este protocolo. Esta página permite seleccionar las interfaces de tu dispositivo que utilizan RIP y la versión del protocolo utilizada.

RIP:  Deshabilitar  Habilitar

Interfaz:

Modo de recepción:

Modo de envío:

Añadir

Tabla de Configuración RIP:

Seleccionar	Interfaz	Modo de recepción	Modo de envío
<input type="button" value="Eliminar seleccionado"/>			<input type="button" value="Eliminar todos"/>

### 3.6.- ADVANCED

Go to menu **"Avanzado"** to configure several advanced settings.

#### 3.6.1 ARP Table

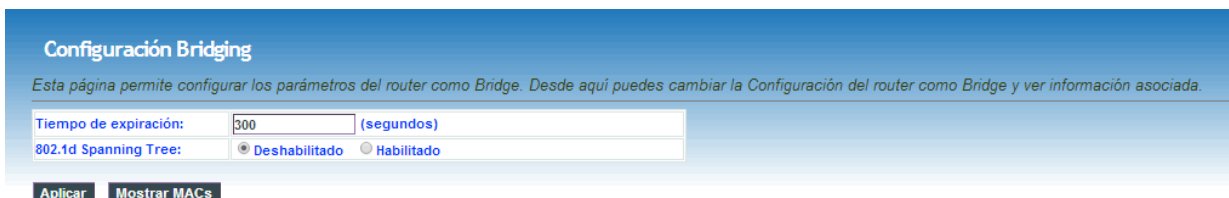
Table ARP shows the list with MAC addresses known by the router.



#### 3.6.2 Bridging

This page is used to configure bridge parameters. In this page, you can change the settings or view some information of the bridge and its attached ports.

Click on **Avanzado** → **Bridging** to access to this page.



#### 3.6.3 Routing

Click on **Avanzado** → **Encaminamiento** to access to the Routing page.

This page is used to configure the routing information. In this page, you can add or delete IP routes.

Field	Description
Destination Network Address (Destino)	The destination IP address of the router.
Subnet Mask (Máscara de red)	The subnet mask of the destination IP
Next Jump (Siguiente salto)	Next jump in the routing configuration.
Metric	Determine whether one particular route should be chosen over another
Use Interface	The interface name of the router output port.

## Configuración de encaminamiento

Esta página permite configurar la información de encaminamiento. Desde aquí puedes añadir/eliminar rutas IP.

Habilitar:	<input checked="" type="checkbox"/>
Destino:	<input type="text"/>
Máscara de red:	<input type="text"/>
Siguiente salto:	<input type="text"/>
Métrica:	<input type="text"/>
Interfaz:	Cualquiera ▾

**Añadir ruta** **Actualizar** **Eliminar seleccionado** **Mostrar rutas**

Tabla estática de encaminamiento:

**Seleccionar** **Estado** **Destino** **Máscara de red** **Siguiente salto** **Métrica** **Interfaz**

Click on button “**Mostrar rutas**” to see the current Routing Table info as below.

## Tabla de rutas IP

Esta tabla muestra la lista de rutas de encaminamiento IP del sistema.

Destino	Máscara de red	Siguiente salto	Métrica	Interfaz
192.168.1.0	255.255.255.0	*	0	br0
127.0.0.0	255.255.255.0	*	0	lo

**Actualizar** **Cerrar**

### 3.6.4 SNMP

Click on **Avanzado** → **SNMP** to access this page. In this page, you can set SNMP parameters



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Contenido del sitio:

- Estado
- LAN
- WLAN
- WAN
- Servicios
- Avanzado
  - Tabla ARP
  - Bridging
  - Encaminamiento
  - SNMP
  - IP QoS
  - Acceso remoto
  - Servidor de impresora
  - Servidor de Archivos
  - Otros
  - IPv6

### Configuración del servidor SNMP

Esta página permite configurar las opciones del servidor SNMP.

SNMP:  Deshabilitar  Habilitar

Descripción del Sistema: System Description

Información de contacto: System Contact

Sistema Nombre: BHS-RTA S

Ubicación: System Location

Object-ID: 1.3.6.1.4.1.16972

Dirección IP traps SNMP: 192.168.1.254

Nombre de comunidad (sólo lectura): public

Nombre de comunidad (sólo escritura): public

**Aplicar** **Limpiar**

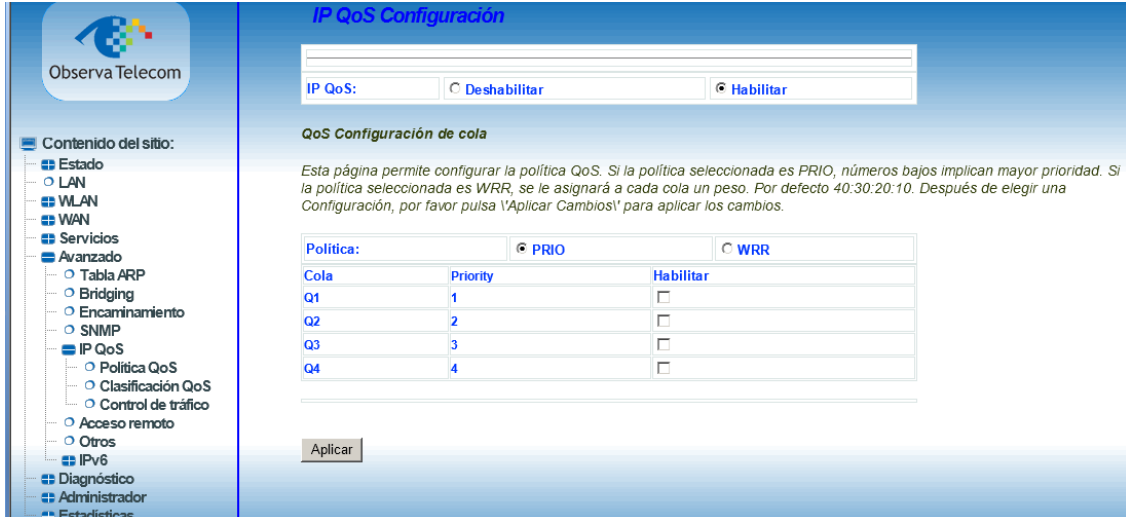
### 3.6.5 IP QoS

Click on **Avanzado** → **IP QoS**, to get IP QoS configuration menu.

There are two pages to configure it: Cola QoS and Clasificación.

## Política QoS (QoS Policy)

In this page it's possible to see QoS queue list.



**IP QoS Configuración**

IP QoS:  Deshabilitar  Habilitar

**QoS Configuración de cola**

Esta página permite configurar la política QoS. Si la política seleccionada es PRIO, números bajos implican mayor prioridad. Si la política seleccionada es WRR, se le asignará a cada cola un peso. Por defecto 40:30:20:10. Después de elegir una Configuración, por favor pulsa 'Aplicar Cambios' para aplicar los cambios.

Cola	Priority	Habilitar
Q1	1	<input type="checkbox"/>
Q2	2	<input type="checkbox"/>
Q3	3	<input type="checkbox"/>
Q4	4	<input type="checkbox"/>

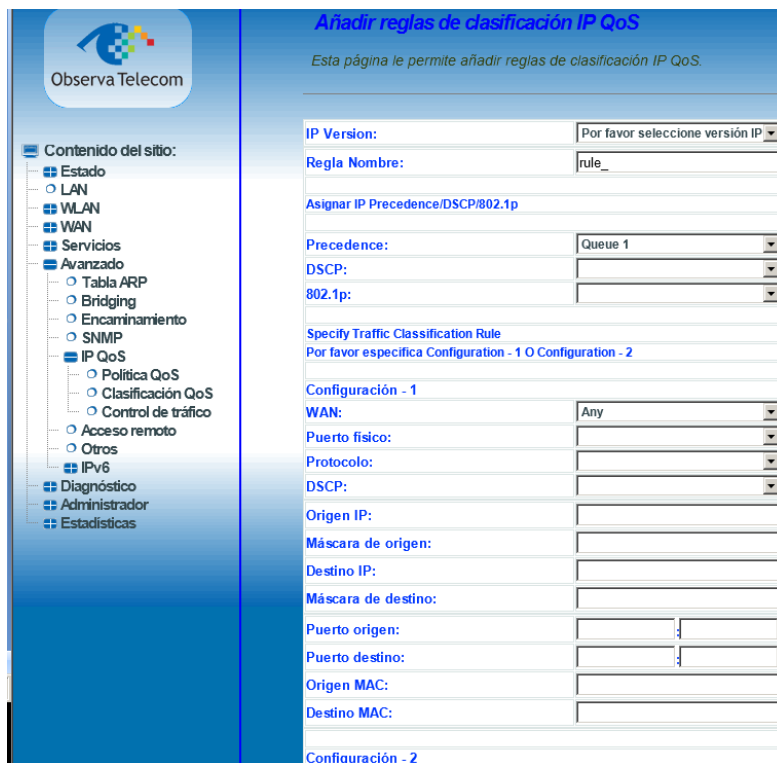
Política:  PRIO  WRR

Aplicar

## Clasificación QoS (QoS Classification)

Here is possible to configure QoS queue rules.

**Quality of service (QoS)** allows you to configure the overall performance and priority given to each network service. First row can be used for enabling QoS on the router while choosing if the classifications rules will be based on the IP precedence field or 802.1p (VLAN) field. Rules for specific traffic can be configured in the second table so specific traffic can be marked with desired values for IP Type of Service and 802.1p specification.



**Añadir reglas de clasificación IP QoS**

Esta página le permite añadir reglas de clasificación IP QoS.

IP Version:

Regla Nombre:

Asignar IP Precedence/DSCP/802.1p

Precedence:

DSCP:

802.1p:

Specify Traffic Classification Rule

Por favor especifica Configuración - 1 O Configuración - 2

Configuración - 1

WAN:

Puerto físico:

Protocolo:

DSCP:

Origen IP:

Máscara de origen:

Destino IP:

Máscara de destino:

Puerto origen:

Puerto destino:

Origen MAC:

Destino MAC:

Configuración - 2



## Control de Tráfico (Traffic Control)



**Add IP QoS Traffic Shaping Rule**

IP Version:

Interfaz:

Protocolo:

Origen IP:

Máscara de origen:

Destino IP:

Máscara de destino:

Puerto origen:

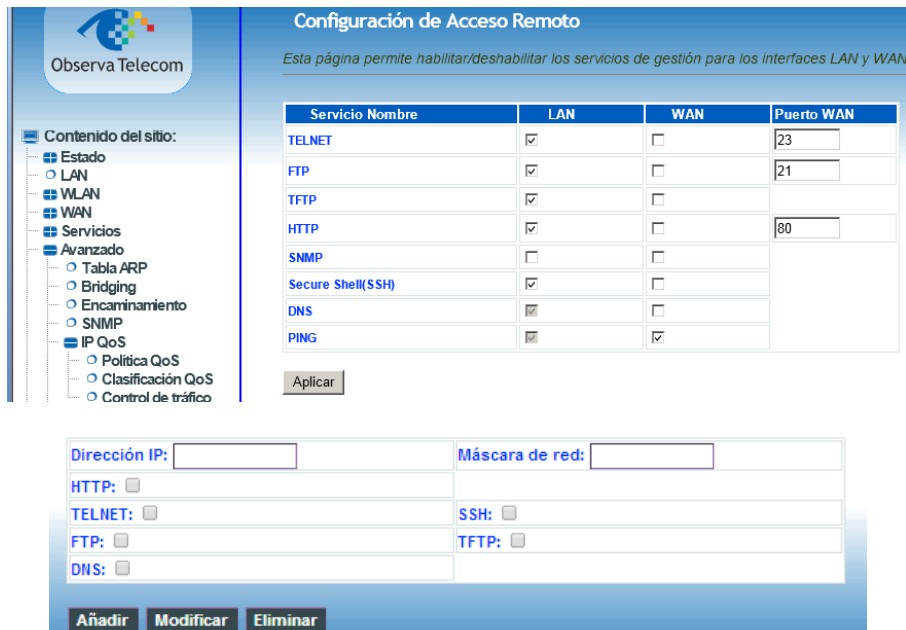
Puerto destino:

Uplink Rate:  kb/s

### 3.6.6 Remote access

Click on **Avanzado** → **Acceso Remoto** to see this page.

At access remote page you can choose whether services are accessible or not via LAN/WAN. When one service is enabled for WAN, user can enter an IP range in the table below:



**Configuración de Acceso Remoto**

Esta página permite habilitar/deshabilitar los servicios de gestión para los interfaces LAN y WAN.

Servicio Nombre	LAN	WAN	Puerto WAN
TELNET	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="23"/>
FTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="21"/>
TFTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
HTTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="80"/>
SNMP	<input type="checkbox"/>	<input type="checkbox"/>	
Secure Shell(SSH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DNS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PING	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Dirección IP:  Máscara de red:

HTTP:

TELNET:

FTP:

DNS:

SSH:

TFTP:

An example of the working is explained here:

For instance, if Telnet is accessible via WAN then:

- Is there any IP range enabled for this service?
  - Yes → telnet is accessible just for those IP's set in the table.
  - No → then, telnet is accessible from any IP.

### Configuración de Acceso Remoto

Esta página permite habilitar/deshabilitar los servicios de gestión para los interfaces LAN y WAN.

Servicio Nombre	LAN	WAN	Puerto WAN
TELNET	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23
FTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21
TFTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
HTTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	80
SNMP	<input type="checkbox"/>	<input type="checkbox"/>	
Secure Shell(SSH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DNS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PING	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

**Aplicar**

Dirección IP:  Máscara de red:

HTTP:  SSH:

TELNET:  TFTP:

FTP:  DNS:

**Añadir Modificar Eliminar**

Seleccionar	Dirección IP	Máscara de red	HTTP	TELNET	FTP	TFTP	SSH	DNS

### 3.6.7 Other configuration

IP passthrough is an option for your DSL modem to turn into a "Bridge" or be just a simple modem - whatever comes down the pipe from the internet goes right on through to your network without any filtering or routing

### Configuración de otras opciones avanzadas

Esta página permite configurar algunas opciones avanzadas.

**IP PassThrough:**

ppp0  Tiempo de validez de sesión:  segundos

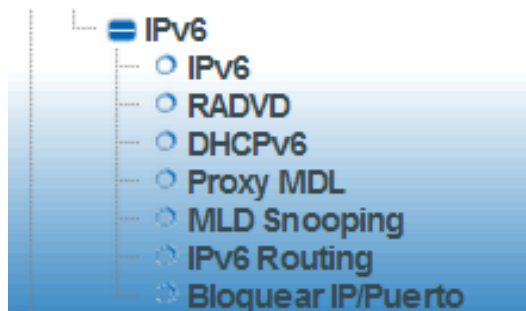
Permitir acceso a LAN

**Aplicar**

### 3.6.8 IPv6

This device supports **IPv6**, and there is a complete menu where user can configure main parameters for an IPv6 connection.

To access to this menu go to **Avanzado** → **IPv6**. Options available are:



## IPv6

This page allows you enable/disable Ipv6 support.

### Configuración IPv6

Esta página permite habilitar y deshabilitar el soporte para IPv6

IPv6:  Deshabilitar  Habilitar

**Aplicar**

## RADVD

In this page you can configure router advertisement daemon, It sends Router Advertisement messages, to a local Ethernet LAN periodically and when requested by a node sending a Router Solicitation message. These messages are required for IPv6 stateless autoconfiguration.

### RADVD Configuración

Esta página permite establecer la Configuración RADVD de tu Router.

MaxRtrAdvInterval:	600
MinRtrAdvInterval:	198
AdvCurHopLimit:	64
AdvDefaultLifetime:	1800
AdvReachableTime:	0
AdvRetransTimer:	0
AdvLinkMTU:	0
Adv SendAdvert:	<input type="radio"/> off <input checked="" type="radio"/> on
AdvManagedFlag:	<input checked="" type="radio"/> off <input type="radio"/> on
AdvOtherConfigFlag:	<input type="radio"/> off <input checked="" type="radio"/> on
Enable ULA:	<input type="radio"/> off <input checked="" type="radio"/> on

ULA Prefix:	fc01::
ULA Prefix Len:	64
ULA Prefix Valid Time:	2592000
ULA Prefix Preferred Time:	604800
Prefijo:	Auto

**Aplicar**

## DHCPv6

IPv6 hosts that use stateless autoconfiguration may require information other than an IP address. DHCPv6 can be used to acquire this information, even though it is not being used to configure IP addresses. DHCPv6 is not necessary for configuring Domain Name System servers—they can be configured using Neighbor Discovery Protocol, which is needed anyway for stateless autoconfiguration.

### DHCPv6 Configuración

Esta página permite habilitar y configurar las opciones del servidor DHCPv6.

DHCPv6 Modo:  Ninguno  DHCP Relay  
 Servidor DHCP (Manual)  Servidor DHCP (Auto)

Habilita el servidor DHCP si necesitas asignar automáticamente direcciones IP a los dispositivos de tu red. Esta página muestra el rango de direcciones IP disponibles para los dispositivos de tu LAN..

Rango de direcciones IP asignables:	3fe:501:fff:100::10 - 3fe:501:fff:100::11
Prefix Length:	64
Tiempo máximo de vida:	20000 segundos
Tiempo de revocación automático:	10000 segundos
Renovar Ticket:	5000 segundos
Tiempo máximo de espera:	16000 segundos
Cliente DUID:	00:01:00:01:00:04:93:e0:00:00:00:00:a2:a2

Dominio:

Tabla de búsqueda de dominio:

Select	Domain
<input type="button" value="Eliminar seleccionado"/> <input type="button" value="Eliminar todos"/>	

Nombre de dominio IP:

Tabla de Servidor de Nombres:

Select	Name Server
<input type="button" value="Eliminar seleccionado"/> <input type="button" value="Eliminar todos"/>	

## Proxy MDL

### Proxy MDL Configuración

Desde esta página se puede configurar el Proxy MLD.

Proxy MDL:  Deshabilitar  Habilitar

Interfaz WAN:

## MLD Snooping

### MLD Snooping Configuración

Desde esta página se puede configurar MLD Snooping.

MLD Snooping:  Deshabilitar  Habilitar

## IPv6 Routing

This page can be used to configure static routing for ipv6. From this page, user can add or remove new routes.

**Configuración de encaminamiento estático IPv6**

*Esta página permite configurar la información de encaminamiento estático IPv6. Desde esta página se pueden añadir o eliminar rutas*

Habilitar:	<input checked="" type="checkbox"/>
Destino:	<input type="text"/>
Siguiente salto:	<input type="text"/>
Métrica:	<input type="text"/>
Interfaz:	Cualquiera <input type="button" value="v"/>

Tabla de rutas estática IPv6:

Seleccionar	Estado	Destino	Siguiente salto	Métrica	Interfaz
-------------	--------	---------	-----------------	---------	----------

**IPv6 Route Table**

*Esta tabla muestra la lista de rutas de encaminamiento IP del sistema.*

Destino	Siguiente salto	Flags	Métrica	Rel	Use	Interfaz
3ffe:501:ffff:100::/64	::	U	256	0	0	br0
fc01::/64	::	U	256	0	0	br0
fe80::/64	::	U	256	0	0	br0
fe80::/64	::	U	256	0	0	eth0.4
fe80::/64	::	U	256	0	0	wlan0
::1/128	::	U	0	1	0	lo
3ffe:501:ffff:100::/128	::	U	0	1	0	lo
3ffe:501:ffff:100:e6c1:46ff:fea0:26b/128	::	U	0	1	0	lo
fc01::/128	::	U	0	1	0	lo
fc01::e6c1:46ff:fea0:26b/128	::	U	0	1	0	lo
fe80::/128	::	U	0	1	0	lo
fe80::e6c1:46ff:fea0:26b/128	::	U	0	1	13	lo
ff02::1:ffa0:26b/128	ff02::1:ffa0:26b	UC	0	0	1	br0
ff00::8	::	U	256	0	0	br0
ff00::8	::	U	256	0	0	eth0.4
ff00::8	::	U	256	0	0	wlan0

## Block IP/Port

In this page, it's possible to block an specific IP and ports. User must choose between outgoing/incoming traffic, protocol and accept or deny that traffic.

### Bloquear IP/Puerto IPv6

Las entradas de esta tabla permiten restringir el paso de ciertos tipos de paquetes por tu Router.

Acción por defecto para el tráfico saliente  Denegar  Permitir

Acción por defecto para el tráfico entrante  Denegar  Permitir Aplicar

**Dirección:** Tráfico saliente  **Protocolo:** TCP  **Regla**  Denegar  Permitir

Origen Dirección IP:  -

Longitud prefijo origen:

Dirección IP destino:  -

Dirección IP origen:

Puerto origen:  -

Puerto destino:  -

Tabla de filtro actual:

Seleccionar	Dirección	Protocolo	Origen Dirección IP	Puerto origen	Destino Dirección IP	Puerto destino	Regla
<input type="button" value="Eliminar seleccionado"/> <input type="button" value="Eliminar todos"/>							

## 3.7.- Diagnostics

From these pages, user can use many Diagnostic tools to know which the router state is.


### 3.7.1 Ping

Click on **Diagnóstico** → **Ping**, then insert a destiny address and click "Comenzar" button. Router will show the response after a while, if ping has succeeded or failed.

### Ping Diagnóstico

Desde esta página se puede configurar el router para que envíe paquetes ICMP ECHO\_REQUEST a una máquina destino. El resultado de la prueba de conectividad se mostrará aquí.

Dirección de destino:

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```

PING 8.8.8.8 (8.8.8.8): 56 data bytes

sendto: Network is unreachable

--- ping statistics ---
0 packets transmitted, 0 packets received.

Atrás

```

### 3.7.2 Packet Dump

**Packet Dump** is a useful tool to capture traffic. Open wireshark and follow instructions listed in the page. You may enter interface you want to capture, for instance `-s 1500 -i wlan0`.

#### Captura de paquetes

Esta página permite monitorizar el tráfico a través de Wireshark. Necesitas volver a esta página y detener la captura. [Haz click aquí para más información sobre argumentos adicionales.](#)

Argumentos Adicionales:

### 3.7.3 ATM Loopback

ATM state connection is verified through ATM OAM test loopback. This test checks virtual paths (VP) and virtual circuits (VC).

Choose PVC to be tested and the flow type.

#### Diagnóstico ATM Loopback - Verificación de la conectividad

El estado de la conexión a la red ATM se verifica a través de la prueba ATM OAM de bucle invertido que comprueba la conexión de las rutas virtuales (VP) y los circuitos virtuales (VC).

Seleccionar PVC:  
 8/35  0/33

Tipo de flujo:

Segmento F4  F4 extremo a extremo  
 Segmento F5  F5 extremo a extremo

ID de ubicación ATM Loopback:

### 3.7.4 ADSL Tone

Click on **Diagnóstico** → **Tono Adsl** to access this page. This function will list SNR tones by channel. This list showing tone vs. SNR will show you how good ADSL line quality is.

### Diagnóstico de tono ADSL

Diagnóstico de tono ADSL Tone Diagnostics. Sólo ADSL2/2+ soporta esta función.

Inicializar

	Flujo de bajada	Flujo de subida
Escala Hlin		
Atenuación de bucle(dB)		
Atenuación de señal(dB)		
Margen SNR(dB)		
Velocidad obtenida(Kbps)		
Consumo de salida(dBm)		

Número de tono	H.Real	H.Image	SNR	QLN	Hlog
0					
1					
2					
3					
4					
5					
6					
7					

### 3.7.5 ADSL Connectivity

Click on **Diagnóstico** → **Conectividad ADSL** to access to this page.

Choose ppp interface and click on "Comenzar" button. This page will show you a list of individuals tests and if these ones have been passed or not.

#### Diagnóstico de la conexión ADSL

El Router puede comprobar la conexión. Debajo se muestran cada uno de los test individuales. Si un test falla, vuelva a pulsar sobre el botón 'Comprobar' para asegurarse de que el error persiste.

Selecciona la conexión ADSL:

<b>Test de sincronización ADSL</b>	<b>FAIL</b>
<b>Diagnóstico ATM OAM F5 Segment Loopback</b>	<b>FAIL</b>
<b>Diagnóstico ATM OAM F5 End-to-end Loopback</b>	<b>FAIL</b>
<b>Diagnóstico ATM OAM F4 Segment Loopback</b>	<b>FAIL</b>
<b>Diagnóstico ATM OAM F4 End-to-end Loopback</b>	<b>FAIL</b>
<b>Diagnóstico de la conexión al servidor PPP</b>	<b>FAIL</b>
<b>Diagnóstico de autenticación con ISP</b>	<b>FAIL</b>
<b>Diagnóstico de la dirección IP asignada</b>	<b>FAIL</b>
<b>Ping de la puerta de enlace por defecto</b>	<b>FAIL</b>
<b>Ping del Servidor DNS primario</b>	<b>FAIL</b>

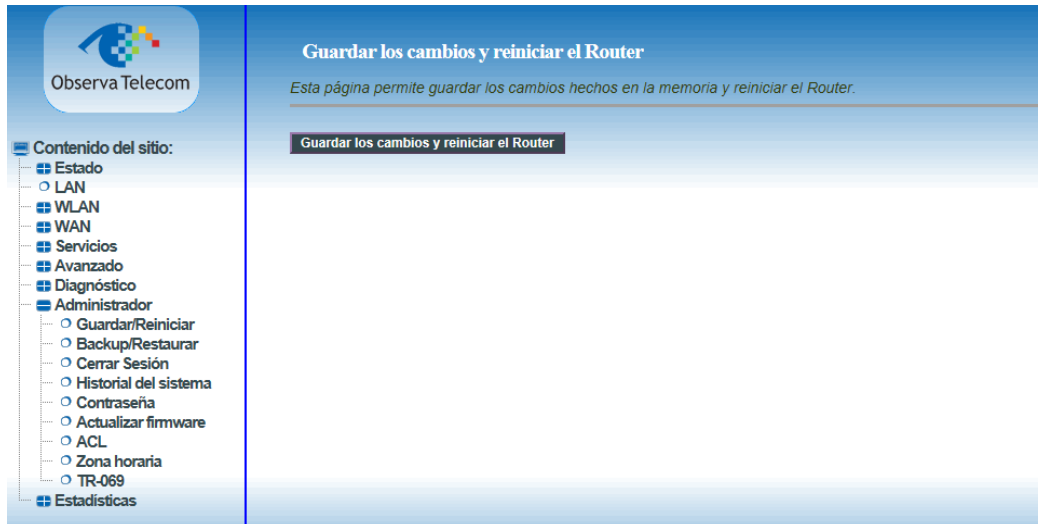


### 3.8.- ADMINISTRATOR

Click on "Administrador" for access to some management features.

#### 3.8.1 Save and Reboot

**Guardar/Reiniciar:** In this page you can reboot the device. CPE will save changes in your configuration and they will be stored and ready even after the reboot.




#### 3.8.2 Backup and restore

**Backup/Restaurar:** In this page, you can back up the current settings to a file, update settings from the file saved previously and restore the factory defaults.

Buttons in this page are described as follows.

Field	Description
Guardar Configuración en archivo (Backup Setting)	Click this button to save the settings to the local hard drive. Select a location on your computer to back up the file. You can name the configuration file.
Restaurar Configuración del sistema a partir de archivo (Update setting)	Click <b>Browse</b> to select the configuration file of device and then click <b>Update Settings</b> to begin updating the device configuration.
Establecer la Configuración por defecto del sistema (Restore Default Setting)	Click this button to <b>reset</b> the device to <b>default settings</b> .

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**Guardar la Configuración y restaurar la Configuración**

*Esta página te permite guardar la Configuración actual del sistema a un archivo para restaurar dicha Configuración desde ese archivo si es necesario. También puedes establecer los valores de fábrica por defecto del sistema.*

---

Guardar Configuración en archivo:	<input type="button" value="Guardar..."/>	
Restaurar Configuración del sistema a partir de archivo:	<input type="text"/>	<input type="button" value="Examinar..."/> <input type="button" value="Aplicar"/>
Establecer la Configuración por defecto del sistema:	<input type="button" value="Restaurar"/>	

### 3.8.3 Close Session

This page closes current session. User will be log out and router will ask again for credentials. This way user profile can be changed.

**Cerrar Sesión**

*Esta página permite cerrar la sesión con el router.*

---

### 3.8.4 System log

This page displays event log data in the chronological manner. You can read the event log from the local host or send it to a system log server. Available event severity levels are as follows: Emergency, Alert, Critical, Error, Warning, Notice, Informational and Debugging. In this page, you can enable or disable the system log function.

- Step 1** Select **Enable Log** check box.
- Step 2** Select the display mode from the **Mode** drop-down list.
- Step 3** Click **Apply** to apply the settings.
- Step 4** Click **View System Log** to view the detail information of system log.

### Historial del sistema

Historial del sistema :	<input type="radio"/> Deshabilitar <input checked="" type="radio"/> Habilitar								
Nivel de Log :	<div style="border: 1px solid black; padding: 2px;">           Emergency            Alert            Critical            Error            Warning            Notice            Infomational            Debugging         </div>								
Mostrar nivel :									
<b>Aplicar</b>									
Guardar Log en archivo:									
Vaciar Log:									
<div style="float: right;"><b>Refresh</b></div>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #4F81BD; color: white;"> <th style="width: 25%;">Fecha/Hora</th> <th style="width: 25%;">Servicio</th> <th style="width: 25%;">Nivel</th> <th style="width: 25%;">M</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Fecha/Hora	Servicio	Nivel	M				
Fecha/Hora	Servicio	Nivel	M						

### 3.8.5 Password

In the page **Administrador** → **Contraseña**, user can change the current password for accessing management web. This change can be performed for different profiles. If user does not fill those fields requiring new password, no authentication will be asked.

### Contraseña

Esta página permite establecer un usuario y contraseña para acceder a la gestión vía web del Router. Si se dejan vacíos los campos de usuario y contraseña no se requerirá autenticación

Usuario:	admin
Contraseña antigua:	••••
Nueva contraseña:	••••
Confirmar contraseña:	••••

### 3.8.6 Upgrade Firmware

In this page user can upgrade firmware.

To update the firmware, take the following steps.

- Click Browse... to find the file. File must have an extension \*.img.
- Click Update to load the file into the flash memory.

The device loads the file and reboots automatically.

#### Note:

Do not turn off your device or press the Reset button while an operation in this page is in progress. In case this happens, second memory stack will boot up and will show you previous firmware.

### Actualizar firmware

Esta página permite actualizar el firmware del Router a una nueva versión. Por favor no apagues el dispositivo durante el proceso o podría no volver a funcionar correctamente.

Seleccionar archivo No se ha seleccionado ningún archivo

Actualizar Limpiar

### 3.8.7 ACL

In this page, you can configure the IP address for access control list (ACL). If ACL is enabled, only devices with the specified IP addresses can access the device.

Choose **Enable (Habilitar)** to enable ACL and click on **Apply (Aplicar)** button to save changes.

#### Note:

If you enable the ACL, ensure that IP address of the host is in the ACL list.

To add an IP address to the IP list, click **Add**. The page shown in the following figure appears.

### Configuración ACL

Esta página permite configurar una lista de control de acceso (ACL) por direcciones IP. Si habilitas esta opción sólo las direcciones IP presentes en la lista podrán acceder al Router. Desde esta página puedes añadir/eliminar las direcciones IP permitidas.

ACL:  Deshabilitar  Habilitar

Habilitar:

Interfaz:

Dirección IP:

Máscara de red:

ACL Tabla:

Seleccionar	Estado	Interfaz	Dirección IP
<input type="button" value="Eliminar seleccionado"/>	<input type="button" value="Eliminar todos"/>		

### 3.8.8 Time Zone

We can enable it in **Administrador** → **Zona horaria**, checking **“Habilitar sincronización de hora vía NTP”**. Then we apply changes.

In the **Time and Date** page, you can configure, update, and maintain the correct time on the internal system clock. You can set the time zone that you are in and the network time protocol (NTP) server. You can also configure daylight saving to automatically adjust the time when needed.

### Configuración de zona horaria

Desde esta página puedes configurar el sistema para que actualice la hora del sistema con la hora de un servidor público NTP en Internet.

Hora actual:	Año	Mes	Día	Hora	Min	Seg
	1970	1	1	22	32	
	29					
Franja horaria seleccionada :	(GMT-03:00)Buenos Aires, Georgetown					
<input checked="" type="checkbox"/> Habilitar sincronización de hora via NTP						
Servidor SNTP :	pool.ntp.org					
	time.nist.gov					
<input type="button" value="Aplicar"/> <input type="button" value="Actualizar"/>						

### 3.8.9 TR-069

CPE WAN Management Protocol (CWMP) is a protocol for communication between a CPE and Auto-Configuration Server (ACS). The function supports TR-069 protocol which collects information, diagnoses the devices and configures the devices automatically via ACS (Auto-Configuration Server).

From this page is possible to manage ACS parameters, connection request parameters and also those parameters linked to certificate.

#### ACS parameters

- **URL:** Enter the website of ACS which is provided by your ISP.
- **User Name/Password:** Enter the User Name and password the device should use when connecting to the ACS.
- **Periodic Inform Enable:** When this field is enabled, the device will send an Inform RPC to the ACS server at the system startup, and will continue to send it periodically at an interval defined in "Periodic Inform Interval" field; when this field is disabled, the device will only send Inform RPC to the ACS server once at the system startup.
- **Periodic Inform Interval:** The interval to send Inform RPC.

#### Connection Request parameters

- **User Name/Password:** Enter the User Name and Password the remote ACS should use when connecting to the device.
- **Path:** The path of the device ConnectionRequestURL.
- **Port:** The port of the device ConnectionRequestURL.



### 3.9.- Statistics

Go to **Statistics** menu to see ADSL and Interface statistic. In this menu it's possible to check network statistics and data transfer. This information helps technicians to identify if the device is functioning properly. The information does not affect the function of the device.

#### 3.9.1 Interface

Click on Estadísticas → Interfaz and you will find the page below. It shows a table containing Tx/Rx packets information related to each interface.

**Estadísticas de Interfaces**

*Esta página muestra estadísticas sobre transmisión y recepción de paquetes para cada interfaz de red.*

Interfaz	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop
eth0.5	0	0	0	0	0	0
eth0.4	2970	0	0	2297	0	0
eth0.3	0	0	0	0	0	0
eth0.2	0	0	0	0	0	0
wlan0	57665	0	0	1045	0	0
ppp0_vc0	0	0	0	0	0	0
ppp1_vc1	0	0	0	0	0	0
3G_ppp8	0	0	0	0	0	0

Actualizar    Limpiar Estadísticas

### 3.9.2 ADSL

Choose ADSL to see statistics related to DSL line working.

Estadísticas ADSL		
Modo		
Latencia		
Trellis Coding	Enable	
Trellis Coding	Enable	
Estado	ACTIVATING	
Nivel de potencia	L0	
Tiempo de actividad		
	Flujo de bajada	Flujo de subida
Margen SNR (dB)	0.0	0.0
Atenuación (dB)	0.0	0.0
Consumo de salida (dBm)	0.0	0.0
Velocidad obtenida (Kbps)	0	0
Velocidad (Kbps)	0	0
Usage Rate (%)		
K (number of bytes in DMT frame)		
R (Número de bytes de comprobación en código RS)		
S (Tamaño de código de palabra RS en trama DMT)		
D (Profundidad del intercalador)		
Retraso (msec)		
FEC	0	0
CRC	0	0
Total ES	0	0
Total SES	0	0
Total UAS	0	0
Total LOSS	--	--
Inicialización completa	0	
Inicializaciones completas fallidas	0	
Last Link DS Rate	0	
Last Link US Rate	0	
TX frames	0	
RX frames	117	
Tiempo de sincronizado (Seg)		
Número sincronizado	0	