

BHS-RTA S

ADSL Home Station

User's Manual (Ed.1.0)



Observa Telecom


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



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."

1.1.- Packing List

- 1 x ADSL Home Station (BHS-RTA S)
- 1 x PSU 12V-1A
- 1 x RJ11 telephone cable
- 1 x RJ45 Ethernet cable
- 1 x Quick Installation Guide

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:

LED	Color	Status	Description
Power	Red/Green	Off	Router powered off
		Blinking 2Hz Red	Failure on power-on self-test
		Solid Green	Router powered on correctly.
LAN4-LAN1	Green	On	Ethernet connection is available.
		Off	Ethernet connection is unavailable.
WLAN	Green	On	Wi-Fi connection is available.
		Off	Wi-Fi connection is unavailable.
		Blinking Green	Negotiation or traffic on line.
WPS	Red/Green	Solid Green	WPS active
		Blinking 2Hz Green	WPS negotiation open

LED	Color	Status	Description
		Solid Red (20 seconds)	Problems on WPS registration
USB	Red/Green	Blinking Green	Negotiation
		Solid Green	Up
		Quick Blinking Green	Tx/Rx traffic on line
		Solid Red	Authentication failed
		Off	Traffic through broadband interface
ADSL	Green	Off	Router powered off
		Blinking 2Hz	No line detected
		Blinking 4Hz	Line training
		Solid	Line up



R

The following table describes the interface of the device, from right to left:

Interface/Button	Description
12V---1A	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"> Press the button for more than 1 second to enable WLAN function. Press the button for more than 5 seconds to enable WPS function.
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 more than 5 seconds and then release.
USB	Connecting to a 3G data card or other USB storage device
VoIP/LAN4	Ethernet RJ-45 interface connecting to the ATA interface (VoIP service is optional).
LAN3/LAN2/LAN1	Ethernet RJ-45 interfaces for connecting computer or ethernet devices.
ADSL	RJ-11 interface connecting to a telephone set through a telephone cable.

1.4.- System Requirements

- 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

- 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

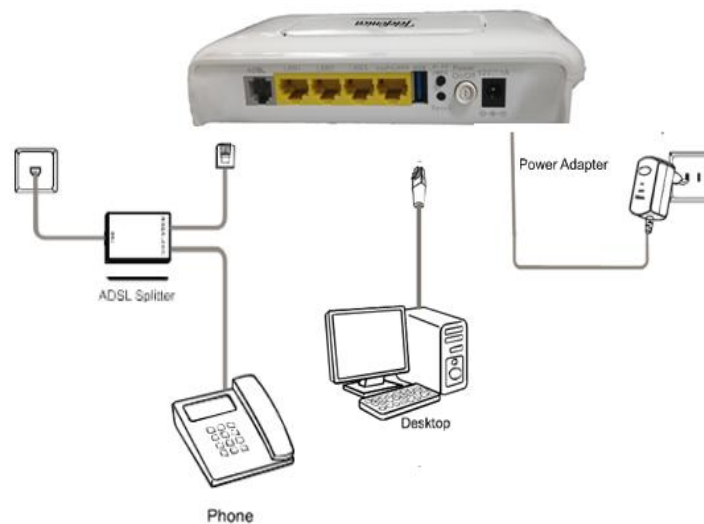
2.- Hardware Installation

- 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).

Note:

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


- Step 4** Plug one end of the power adapter to the wall outlet and the other end to the **Power** port of the device.



Connection diagram (with telephone set before the splitter)

- 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.

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3.- REDUCED WEB - WIZARD

The following is the detailed description of accessing the device for the first time.

Step 1 Open the WEB Explorer (IE, Chrome, Firefox,Safari) browser and enter **http://192.168.1.1**


Step 2 The Welcome page is shown in the following figure.



Step 3 Click **"Siguiente"** to configure your user's account and Wi-Fi network as shown in the following Connectivity page, or click **"Configuración Avanzada"** for more options.

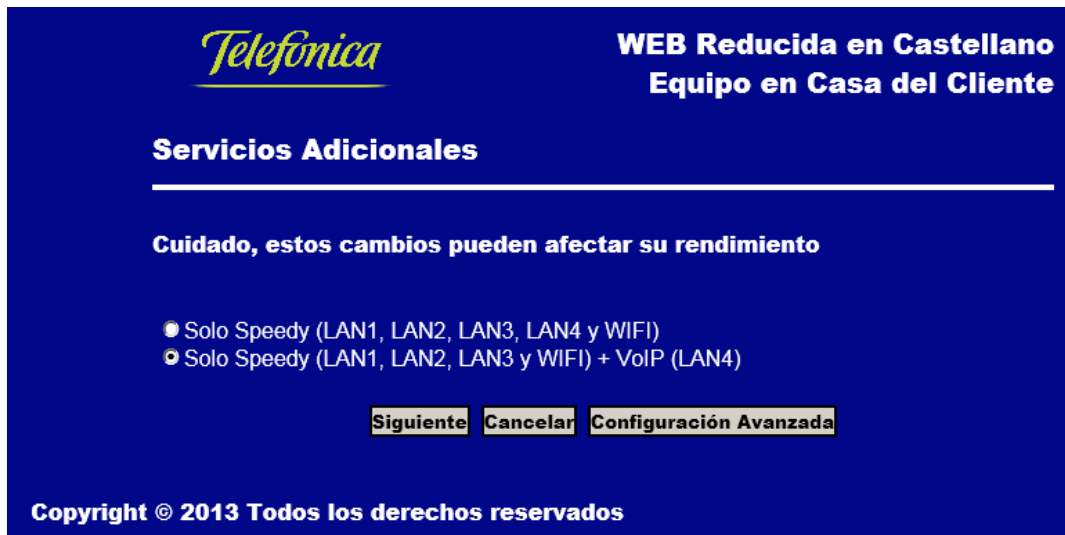


By default, the user's name is MAC@acs and password is the MAC. The MAC is the equipment's MAC Address in upper case.

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Step 4 Here you can select:

“Siguiete” to save selected changes, or
“Cancelar” to go back to the Welcome page without saving changes, or
“Configuración Avanzada” to login into the Advanced WEB UI of the Router with the user **admin** and password **1234**, or
“Servicios Adicionales” if you have applied for VoIP service.




When **“Solo Speedy” (LAN1, LAN2, LAN3 y WIFI)+ VoIP(LAN4)** is selected, the LAN4 port is used as VOIP port for voice service (DHCP disabled).


Step 5 Here you can select:

“ Siguiete” to save selected changes and go to Wireless settings page, or
“Cancelar” to go back to the Conectividad page without saving changes, or
“Configuración Avanzada” to login into the Advanced WEB UI of the Router with the user **admin** and password **1234**

In this Wireless Section, you can perform the following operations in your WIFI settings:

- Enable/Disable your wireless network.
- Show/Hide your wireless network.
- Select the channel manually (available from 1 to 11).
- Select the security settings: Encryption type + Wireless key.

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WEB Reducida en Castellano
Equipo en Casa del Cliente

Configuración WI-FI

A continuación configure su red inalámbrica.

Habilitar red inalámbrica
 Ocultar SSID

SSID

Selección del Canal

Mecanismo de Seguridad

Clave

64-bit WEP: Ingrese 5 caracteres alfanuméricos o 10 dígitos hexadecimal ("0-9", "A-F").
128-bit WEP: Ingrese 13 caracteres alfanuméricos o 26 dígitos hexadecimal ("0-9", "A-F").
WPA y WPA2: Ingrese de 8 a 63 caracteres alfanuméricos.

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Step 6 Here you can select:

“**Siguiete**” to save selected changes or

“**Cancelar**” to go back to the Conectividad page without saving changes, or

“**Configuración Avanzada**” to login into the Advanced WEB UI of the Router with the user **admin** and password **1234**

Once you have finished, push “Siguiete” to check the status of your connection:




WEB Reducida en Castellano
Equipo en Casa del Cliente

Estado de la conexión

Conectado a Internet

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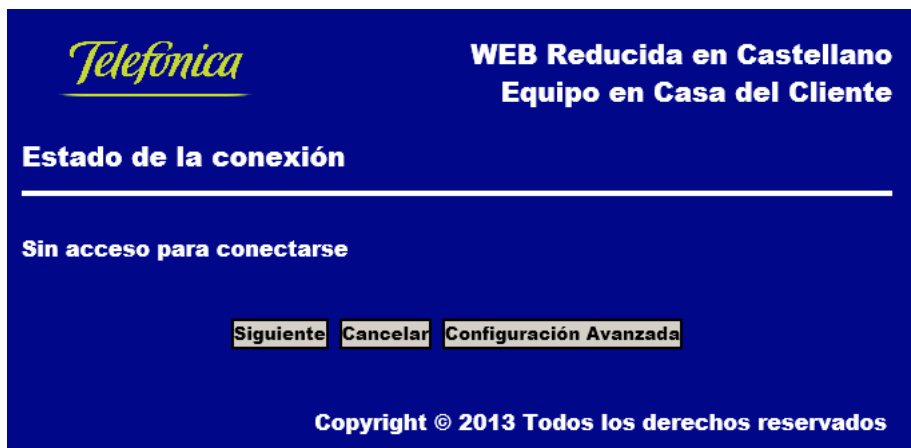
Now you have connection to the Internet

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Here you can select

- “**Siguiente**” to exit the Wizard and finish your Router’s settings, or
- “**Cancelar**” to go back to the Wireless page without saving changes, or
- “**Configuración Avanzada**” to login into the Advanced WEB UI of the Router with the user **admin** and password **1234**

In case there is some error in the ADSL installation (cables, or ISP) or your ADSL settings, you will see the following page



You can access anytime you need to the “Web Reducida” to modify your settings.

4.- ADVANCED WEB

Click in **Configuración Avanzada** and you will obtain a login box. Credentials are **admin** as user and **1234** as password. If you log in successfully you will find the following page.

4.1.- STATUS

If user has followed all steps mentioned in wizard, there will be many parameters already configured. Now, we can complete setup from advanced web. First we can see device status from page **Estado** → **Dispositivo**.

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.

Following pictures are showing system information. In the first figure ADSL line is still down, we can see that firmware is still syncing as well. This device synchronizes both memory stacks after every reboot in order to have same image in both stacks. Second image is showing firmware it's already synced and line is up.



Estado del dispositivo

Esta página proporciona información del estado actual del Router.

Sistema	
Nombre	BHS-RTA S
Tiempo de actividad	19:31
Versión del Firmware	BHS-RTA_S1.6T-ARG
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	18/7/2014 7:8:28
Puerta de enlace IPv6	

DSL	
Estado operacional	ADSL2+,SHOWTIME.L0
Velocidad de subida	796 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	001FA4933FF9		

Configuración WAN							
Interfaz	VPI/VCI	Encapsulación	Protocolo	Nombre del Servicio	Dirección IP	Puerta de enlace	Estado
ppp0_vc0	8/32	LLC	PPPoE	Speedy-ATM-8-35	79.146.209.199	80.58.67.60	up 00:06:40 / 00:31:41 <input type="button" value="Desconectar"/>
vc1	8/37	LLC	br1483	VoIP-PVC8-37			up

Configuración 3G				
Interfaz	Protocolo	Dirección IP	Puerta de enlace	Estado
ppp8	PPP			down 0sec / 0sec

Configuración PPTP				
Interfaz	Protocolo	Dirección IP	Puerta de enlace	Estado

L2TP Configuración				
Interfaz	Protocolo	Local Dirección IP	Remoto Dirección IP	Estado

4.2.- 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 el router. Desde aquí se puede configurar la dirección IP, máscara de red, etc..

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

Aplicar

4.3.- 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.

4.3.1 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.



Configuración básica para WLAN

Esta página te permitirá configurar los parámetros básicos de configuración de la red inalámbrica y otros parámetros de red.

WLAN	
<input type="checkbox"/> Deshabilitar interfaz WLAN	
Banda:	2.4 GHz (B+G+N)
Modo:	AP <input type="button" value="Varios AP"/>
SSID:	Speedy-933FF9
Anchura del canal:	20MHZ
Control de banda lateral:	Upper
Número de canal:	Auto
Potencia de radio (mW):	60 mW
<input checked="" type="checkbox"/> Deshabilitar botón WLAN/WPS	
Cientes activos:	<input type="button" value="Mostrar clientes activos"/>

Aplicar

The following table describes the parameters in this page.

Field	Description
Deshabilita 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,
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, enter your new wireless network name in this field.
Anchura del canal (Band Width)	Select the appropriate band of 20M , 40M or 20M/40M from the pull-down menu.
Control de banda lateral (Control Sideband)	Choose the channel selection mode as Upper or Lower .
Número de canal (Wireless Channel)	Select the wireless channel from the pull-down menu.
Deshabilita botón WLAN/WPS (Disable WLAN/WPS button)	It's enabled by default. This avoids WLAN or WPS can be enable/disable from physical button.
Cientes activos (Active clients)	Click Mostrar clientes activos button to show the WMAC address of clients connected and come traffic statistics

4.3.2 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 configuración de WLAN. Se recomienda tener 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 checked="" type="radio"/> Habilitado <input type="radio"/> Deshabilitado

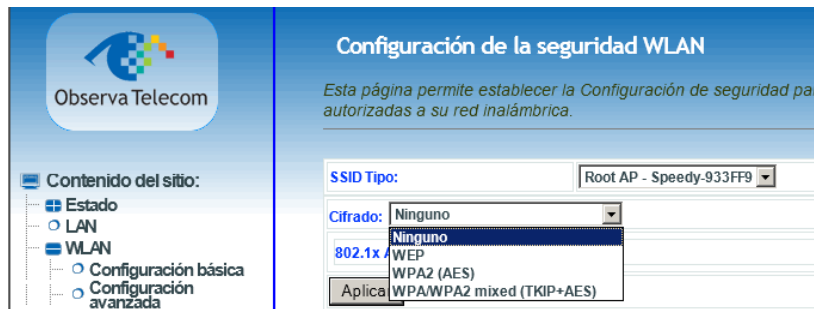
Aplicar

4.3.3 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

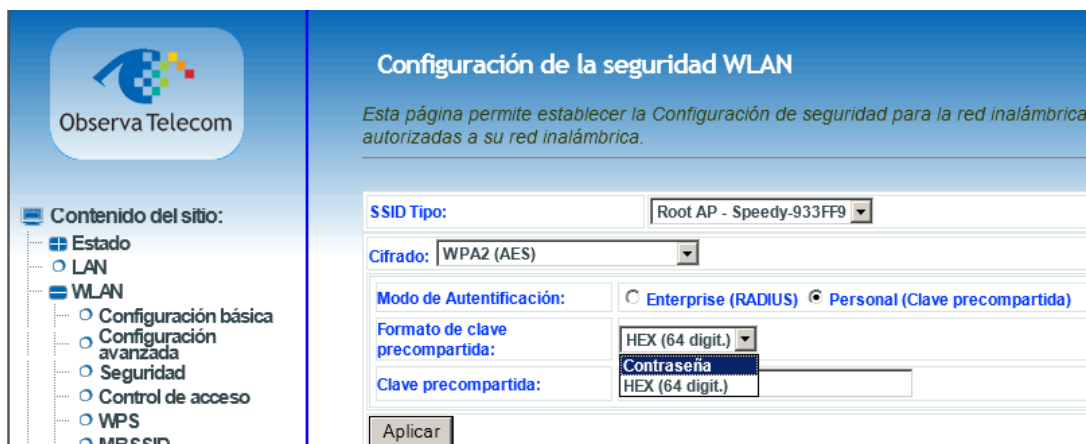
It is NOT recommended to leave Wireless security as None.

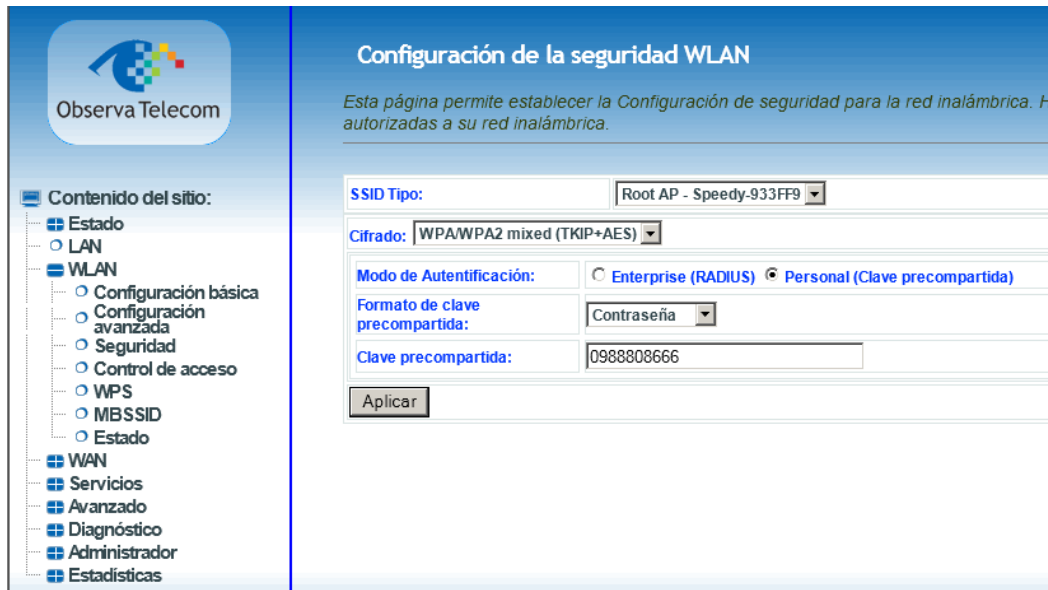


When it is selected **WEP**, you can choose the Key Length **64 or 128 bits**, ASCII or HEX:



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





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 64-bit or 128-bit .
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 8wIHK .

For other types of cyphering:

Field	Description
Cifrado (Security mode)	Configure the wireless encryption mode. You can choose None , WEP , WPA2 or WPA/ WPA2 Mixed . <ul style="list-style-type: none"> Wired equivalent privacy (WEP) encrypts data frames before transmitting over the wireless network. Wi-Fi protected access (WPA) is a subset of the IEEE802.11i security specification draft. 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. 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 AES or TKIP+AES .
Modo de autenticación (Authentication Mode)	<ul style="list-style-type: none"> Select PSK (Pre-Shared Key), enter the pre-shared key in the Pre-Shared Key field. Select Enterprise (RADIUS), enter the port, IP

Field	Description
	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. If the encrypton is set to WEP , the modem uses 802.1 X authentication, which is Radius authentication.

4.3.4 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.



4.3.5 WPS

Click WPS link and you will find the page below. WPS is enabled by default, but you cannot launch it from physical button, until you enable it. You can do it in Basic Configuration (see Basic Configuration section).

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:	
<input type="checkbox"/> Deshabilitar WPS	
Estado:	<input checked="" type="radio"/> Configurado <input type="radio"/> No configurado
Bloqueo automático:	Desbloqueado
Número PIN generado:	12345670 <input type="button" value="Volver a generar el número PIN"/>
Botón WPS:	<input type="button" value="Iniciar Configuración PBC"/>
<input type="button" value="Aplicar"/> <input type="button" value="Limpiar"/>	

Información de la clave actual:

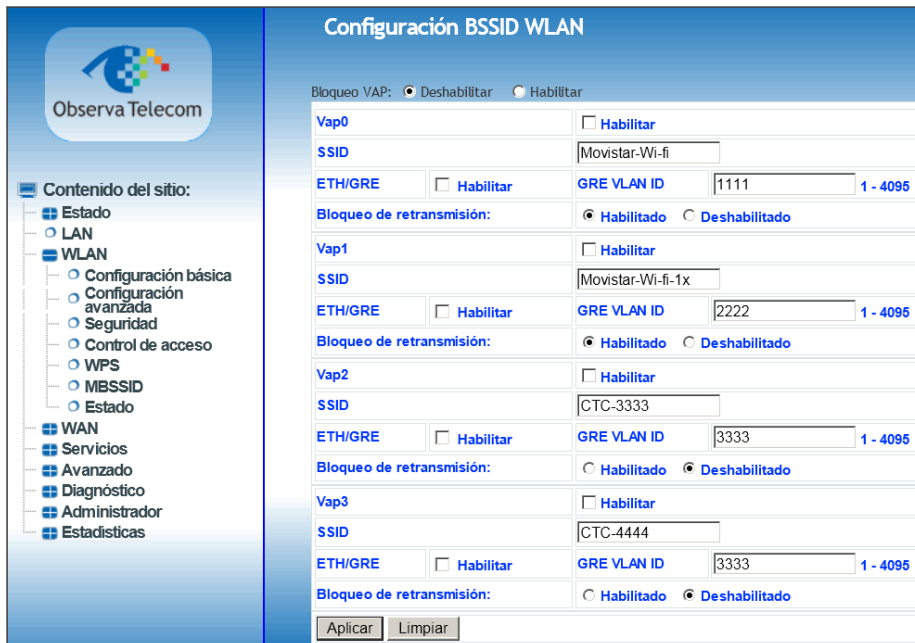
Autenticación	Cifrado
WPA2-Mixed PSK	TKIP+AES
Número PIN de cliente:	<input type="text"/> <input type="button" value="Iniciar PIN"/>

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 Configured state is selected, wireless parameters (for example, the encryption password) are provided by the CPE in WPS negotiation. When Unconfigured 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.
Iniciar configuración PBC (Push Button Configuration)	Press the button, the CPE will connect the station automatically.
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.

4.3.6 MBSSID

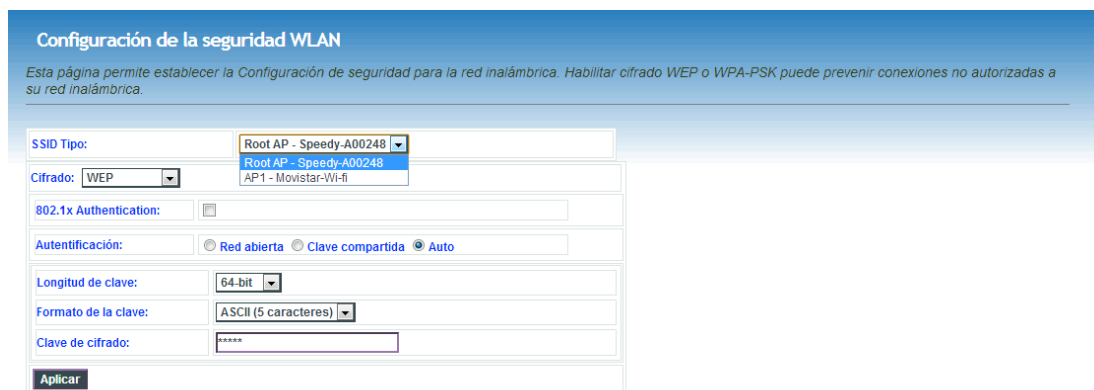
This page can be used for enable different SSID. Once new SSID is configured, it's possible to change its security from **Security** page, choosing the proper AP. User can also create several SSID's from page **Basic Configuration**, clicking on **Varios AP** button.

Figure showing MBSSID page.



In this page you can also configure a 2nd SSID to be used as tunnel GRE with remote peer.

Figure showing how change security for SSID in the picture above (Movistar-Wi-fi)



Access to several SSID configuration through Varios AP button.

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:	<input type="button" value="AP"/> <input type="button" value="Varios AP"/>
SSID:	Speedy-A00248
Anchura del canal:	20/40MHZ
Control de banda lateral:	Upper
Número de canal:	Auto
Potencia de radio (mW):	60 mW
Deshabilitar botón WLAN/WPS	<input checked="" type="checkbox"/>
Clientes activos:	<input type="button" value="Mostrar clientes activos"/>
<input type="button" value="Aplicar"/>	

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	<input type="button" value="Mostrar"/>
AP2	<input type="checkbox"/>	2.4 GHz (B+G+N)	CTC-2222	Auto	Habilitado	Habilitado	Deshabilitado	<input type="button" value="Mostrar"/>
AP3	<input type="checkbox"/>	2.4 GHz (B+G+N)	CTC-3333	Auto	Habilitado	Habilitado	Deshabilitado	<input type="button" value="Mostrar"/>
AP4	<input type="checkbox"/>	2.4 GHz (B+G+N)	CTC-4444	Auto	Habilitado	Habilitado	Deshabilitado	<input type="button" value="Mostrar"/>

4.3.7 WLAN STATUS

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

Estado WLAN

Esta página muestra el estado actual de la red inalámbrica.

WLAN Configuración	
Modo	AP
Banda	2.4 GHz (B+G+N)
SSID	Speedy-A00248
Número de canal	6
Cifrado	WEP 64bits
BSSID	e4:c1:46:a0:02:48
Clientes activos	0
Punto de acceso virtual1 Configuración	
Banda	2.4 GHz (B+G+N)
SSID	Movistar-Wi-fi
Cifrado	WEP 64bits
BSSID	e4:c1:46:a0:02:49
Clientes activos	0

4.4.- WAN

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

4.4.1 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)

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

Field	Description
PVC Settings	<p>VPI: The virtual path between two points in an ATM network, and its valid value is from 0 to 255.</p> <p>VCI: The virtual channel between two points in an ATM network, ranging from 32 to 65535 (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>1483 Bridged 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 LLC or VCMUX .

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:	<input type="text" value="8"/>	VCI:	<input type="text" value="36"/>
Encapsulación:	<input checked="" type="radio"/> LLC <input type="radio"/> VC-Mux		
MTU:	<input type="text" value="1492"/>	MRU:	<input type="text" value="1492"/>
Modo del canal:	PPPoE <input type="button" value="v"/>		
Habilitar NAPT:	<input checked="" type="checkbox"/>	Habilitar IGMP:	<input checked="" type="checkbox"/>
Habilitar QoS:	<input type="checkbox"/>		
Ruta por defecto:	<input type="radio"/> Deshabilitar <input type="radio"/> Habilitar <input checked="" type="radio"/> Auto		
Estado:	<input checked="" type="radio"/> Habilitar <input type="radio"/> Deshabilitar		
IP Protocolo:	IPv4 <input type="button" value="v"/>		

Configuración PPP:			
Usuario:	<input type="text" value="tr069movistar"/>	Contraseña:	<input type="password" value="....."/>
Tipo:	<input type="button" value="v"/> Continuo	Tiempo expiración (min):	<input type="text"/>

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				tr069m-ovistar	Auto-On	Habilitado	
<input type="radio"/>	ppp3_vc3	PPPoE	0	35	LLC	On	Off	Off				tr069m-ovistar	Auto-Off	Habilitado	
<input type="radio"/>	vc0	br1483	10	35	LLC			Off						Habilitado	

Eliminar seleccionado

4.4.2 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:

Aplicar **Deshacer**

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	---	---

4.4.3 ADSL CONFIGURATION

This page allows configure ADSL modulation parameters.

Configuración ADSL

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

Modulación ADSL:

G.Lite
 G.Dmt
 T1.413
 ADSL2
 ADSL2+

AnnexL:
 (Nota: Sólo ADSL 2 soporta AnnexL)
 Habilitado

AnnexM:
 (Nota: Sólo ADSL 2/2+ soporta AnnexM)
 Habilitado

Capacidad ADSL:

Habilitar Bitswap
 Habilitar SRA

ADSL Máscara de tono:

ADSL Máscara PSD:

Aplicar

4.4.4 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

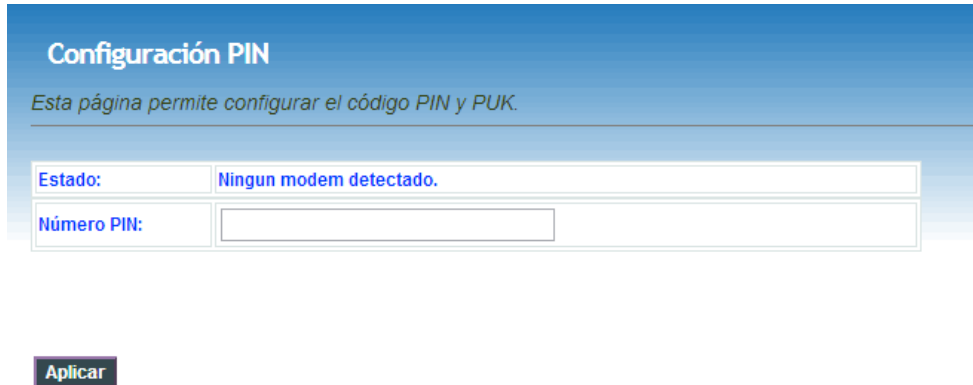
Esta página permite configurar los parámetros para la conexión 3G.

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

Field	Description
Enable 3G Backup	You may choose to enable or disable 3G backup.
Network type	It's possible to select 2G or 3Gby 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.

4.4.5 PIN CONFIGURATION

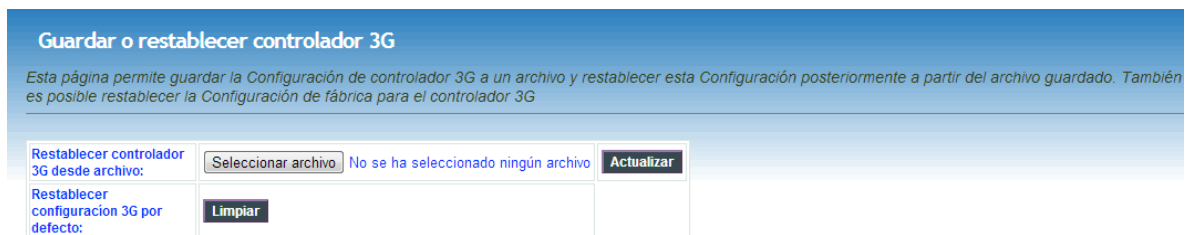
Click **Pin Configuration** to enable the 3G PIN code as shown in the following figure. Label “Estado” will inform you about dongle status, if PIN is needed or not, or if modem has been detected.



4.4.6 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.



4.4.7 ETH/GRE

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



4.4.8 VPN: PPTP/L2TP

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



Configuración VPN PPTP
Esta página permite configurar los parámetros para VPN PPTP.

PPTP VPN: Deshabilitar Habilitar

Servidor PPTP

Tipo Aut.: Cifrado:

Dirección remota: Dirección local:

Cuenta servidor

Nombre: Túnel: Deshabilitar Habilitar

Nombre de Usuario: Contraseña:

Tabla PPTP Servidor:

Seleccionar	Nombre	Habilitar	Nombre de Usuario	Contraseña
<input type="checkbox"/>		<input type="checkbox"/>		

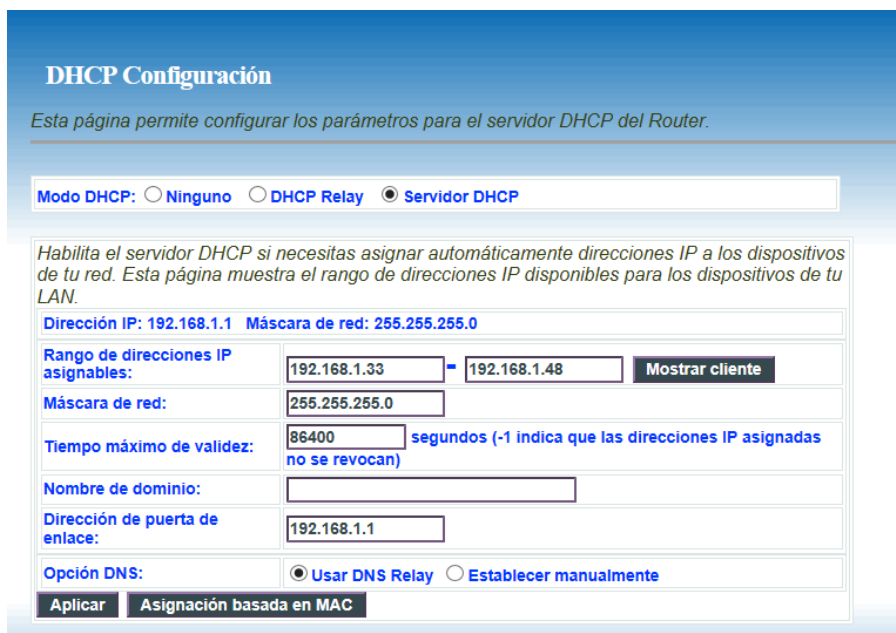
Cliente PPTP

Nombre: Dirección servidor:

4.5.- SERVICES

4.5.1 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

4.5.2 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

Aplicar



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:

DNSv4 2:

DNSv4 3:

IPv6

- Obtener DNS automáticamente
- Establecer DNS manualmente

IPv6 Enlazar interfaz WAN:

DNSv6 1:

DNSv6 2:

DNSv6 3:

Aplicar

To configure 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 (DyndDNS.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:

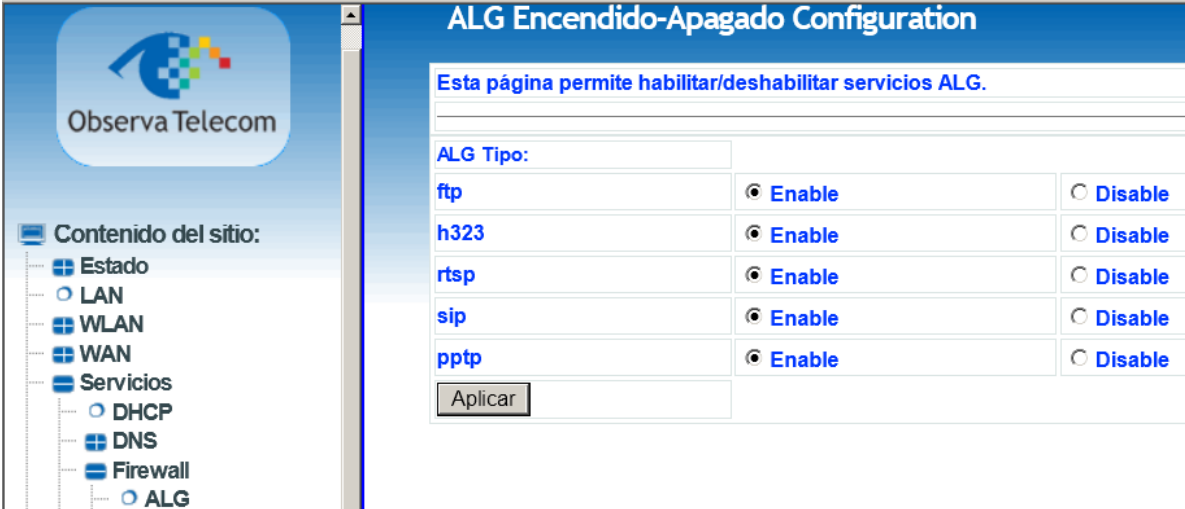
Email:

Clave:

Seleccionar	Estado	Nombre de dominio	Usuario Nombre	Servicio	Estado

4.5.3 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

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: Protocolo: 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.

Bloquear MAC

Las entradas de esta tabla permiten restringir el paso de ciertos tipos de paquetes de datos que salen de tu red local a Internet a través de 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:

Origen Dirección MAC:

Destino Dirección MAC:

Regla Denegar Permitir **Añadir**

Tabla de filtro actual:

Seleccionar	Dirección	Origen Dirección MAC	Destino Dirección MAC	Regla
-------------	-----------	----------------------	-----------------------	-------

Eliminar seleccionado **Eliminar todos**

DNAT

Click on Servicios → Firewall → DNAT to access to this page. Inputs on this table allows you to redirect those services required to the router from Internet, to those specific devices in your LAN using NAT.

DNAT

Las entradas de esta tabla le permiten redirigir servicios solicitados a tu Router desde Internet hacia máquinas específicas de tu red local utilizando reglas NAT. Necesitas configurar estas reglas si deseas ofrecer algún tipo de servicio a Internet como un servidor de correo o servicio web alojado en tu red local.

DNAT: Deshabilitar Habilitar

Habilitar Application: Active Worlds

Comentarios	IP local	Puerto local origen	Puerto local destino	Protocolo	IP remota	Puerto remoto origen	Puerto remoto destino	Interfaz
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera
				Both				Cualquiera

Tabla de redirección de Puertos:

Seleccionar	Comentarios Local	Dirección IP	Protocolo	Puerto local	Habilitar	Host remoto	Puerto público	Interfaz
-------------	-------------------	--------------	-----------	--------------	-----------	-------------	----------------	----------

Bloquear URL

Click on Servicios → Firewall → Bloquear URL to access this page. This page allows user to block domain name FQDN and filter by words. Page is divided in two sections, first one to filter by domain FQDN and second one to filter by words.

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

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:

4.5.4 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.



Contenido del sitio:

- Estado
- LAN
- WLAN
- WAN
- Servicios
 - DHCP
 - DNS
 - Firewall
 - AI G

UPnP Configuración

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

UPnP: Deshabilitar Habilitar

Interfaz WAN:

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

4.5.5 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 Aplicar

Interfaz:	br0
Modo de recepción:	Ninguno
Modo de envío:	Ninguno

Añadir

Tabla de Configuración RIP:

Seleccionar	Interfaz	Modo de recepción	Modo de envío
Eliminar seleccionado Eliminar todos			

4.5.6 DMS

Click on Servicios → DMS to enable/disable “Servidor Digital Multimedia” or DLNA.

Configuración del Servidor Digital Multimedia

Esta página permite configurar los parámetros de tu Servidor Digital Multimedia.

Servidor Digital Multimedia: Deshabilitar Habilitar

Aplicar

4.6.- ADVANCED

Go to menu “Avanzado” to configure several advanced settings.

4.6.1 ARP Table

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

Tabla ARP

Esta página muestra la tabla ARP con la lista de direcciones MAC aprendidas.

Dirección IP	Dirección MAC
192.168.1.36	08-2e-5f-76-d0-4d

Actualizar

4.6.2 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.

Configuración Bridging

Esta página permite configurar los parámetros del router como Bridge. Desde aquí puedes cambiar la Configuración del router como Bridge y ver información asociada.

Tiempo de expiración: (segundos)

802.1d Spanning Tree: Deshabilitado Habilitado

Aplicar

Mostrar MACs

4.6.3 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 (Siguiete 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"/>
Metrica:	<input type="text"/>
Interfaz:	Cualquiera ▾

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

Tabla estática de encaminamiento:

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

Click on button “Mostrar rutas” to see info below.

Tabla de rutas IP

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

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

Actualizar **Cerrar**

4.6.4 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
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- Servicios
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 - 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:	<input checked="" type="radio"/> Deshabilitar <input type="radio"/> 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**

4.6.5 IP QoS

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

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

Cola QoS

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

Cola IP QoS

Configuración para cola IP QoS

Lista de Configuración de cola

Interfaz	Descripción	Precedencia	Id cola	Habilitar	Eliminar
vc2	8_37_p2	2	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ppp0_vc0	8_36_p1	1	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ppp0_vc0	8_36_p1	1	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
vc3	10_35_p0	0	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Clasificación

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.

IP QoS Classification

Configuración de tabla de clasificación IP QoS.

IP QoS: Deshabilitado Habilitado
 QoS por defecto: IP Pred

Reglas de clasificación de tráfico específico

Origen IP: Máscara de red: Puerto:
 Destino IP: Máscara de red: Puerto:
 Protocolo: Puerto físico:
 Interfaz de tráfico saliente:

Resultados de clasificación

Cola de clasificación: (Click to Select) 802.1p_Mark:
 IP.Pred_Mark: TOS_Mark:

Reglas IP QoS:

		Reglas de clasificación					Resultados de clasificación						
Seleccionar	Estado	IP orig.	Puerto orig.	IP Dest.	Puerto Dest.	Protocolo	Puerto LAN	Interf.	Priori.	IP Preced	IP ToS	802.1p	Wan IF

4.6.6 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:

Dirección IP: <input type="text"/>	Máscara de red: <input type="text"/>
HTTP: <input type="checkbox"/>	
TELNET: <input type="checkbox"/>	SSH: <input type="checkbox"/>
FTP: <input type="checkbox"/>	TFTP: <input type="checkbox"/>
DNS: <input type="checkbox"/>	

Añadir **Modificar** **Eliminar**

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"/>	<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"/>	

Aplicar

Dirección IP: <input type="text"/>	Máscara de red: <input type="text"/>
HTTP: <input type="checkbox"/>	
TELNET: <input type="checkbox"/>	SSH: <input type="checkbox"/>
FTP: <input type="checkbox"/>	TFTP: <input type="checkbox"/>
DNS: <input type="checkbox"/>	

Añadir **Modificar** **Eliminar**

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

4.6.7 Printer

In this page it's possible to see what is the url assigned to the printer. Click on Avanzado → Servidor de impresora, to access here.



4.6.8 SAMBA

To enter this page, click on Avanzado → Servidor de Archivos.

Field	Description
Enable SAMBA	Select the check box "Servidor de Archivos" to enable the samba service. By default is enabled.
Access Route	Enables/disables access via WAN or LAN by clicking on check box.
Access mode	Choose if access mode is Only read or Read/Write.

There is also a table showing information about the USB device plugged into the router. In order to access using SAMBA to USB device, user must enter [\\192.168.1.1](http://192.168.1.1) in an explorer window, or [//homestation/fileserver](http://homestation/fileserver). Both url's are valid.


Configuración del Servidor de Archivos

Esta página permite configurar el servidor de almacenamiento (SAMBA).

Servidor de Archivos:	<input type="radio"/> Deshabilitar <input checked="" type="radio"/> Habilitar
Ruta de acceso:	<input checked="" type="checkbox"/> Habilitar acceso LAN <input type="checkbox"/> Habilitar acceso WAN
Modo de acceso:	<input type="radio"/> Sólo lectura <input checked="" type="radio"/> Lectura/Escritura


Información del dispositivo de almacenamiento USB

Capacidad:	N/A(no se ha detectado almacenamiento USB, por favor conéctalo de nuevo.)			
Partición	Total	Usado	Disponible	Sistema de archivos

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4.6.9 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

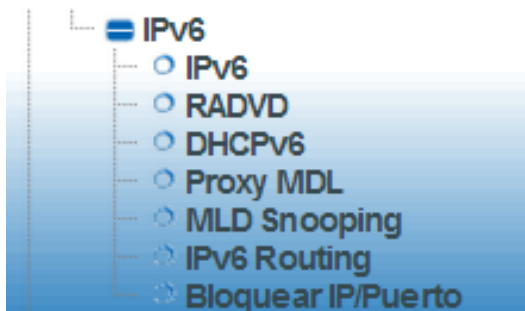
Permitir acceso a LAN

Aplicar

4.6.10 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:	<input type="text" value="600"/>
MinRtrAdvInterval:	<input type="text" value="198"/>
AdvCurHopLimit:	<input type="text" value="64"/>
AdvDefaultLifetime:	<input type="text" value="1800"/>
AdvReachableTime:	<input type="text" value="0"/>
AdvRetransTimer:	<input type="text" value="0"/>
AdvLinkMTU:	<input type="text" value="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:	<input type="text" value="fc01::"/>
ULA Prefix Len:	<input type="text" value="64"/>
ULA Prefix Valid Time:	<input type="text" value="2592000"/>
ULA Prefix Preferred Time:	<input type="text" value="604800"/>
Prefijo:	<input type="text" value="Auto"/>

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:	3ffe:501:ffff:100::10 - 3ffe:501:ffff: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

Aplicar Dominio: Añadir

Tabla de búsqueda de dominio:

Select	Domain
--------	--------

Eliminar seleccionado Eliminar todos

Nombre de dominio IP: Añadir

Tabla de Servidor de Nombres:

Select	Name Server
--------	-------------

Eliminar seleccionado Eliminar todos

Proxy MDL

Proxy MDL Configuración

Desde esta página se puede configurar el Proxy MLD.

Proxy MDL:	<input checked="" type="radio"/> Deshabilitar <input type="radio"/> Habilitar
Interfaz WAN:	<input type="text"/>

Aplicar

MLD Snooping

MLD Snooping Configuración

Desde esta página se puede configurar MLD Snooping.

MLD Snooping:	<input checked="" type="radio"/> Deshabilitar <input type="radio"/> Habilitar
---------------	---

Aplicar

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:

Destino:

Siguiente salto:

Métrica:

Interfaz:

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
3fe:501:fff: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
3fe:501:fff:100::/128	::	U	0	1	0	lo
3fe:501:fff: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:fa0:26b/128	ff02::1:fa0:26b	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: -

Añadir

Tabla de filtro actual:

Seleccionar	Dirección	Protocolo	Origen Dirección IP	Puerto origen	Destino Dirección IP	Puerto destino	Regla
Eliminar seleccionado Eliminar todos							

4.7.- Diagnostics

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

4.7.1 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:

Comenzar

```
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

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4.7.2 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:

4.7.3 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 ATMLoopback - 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:

4.7.4 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					

4.7.5 ADSL Conectivity

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: ppp1

Comenzar

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

4.8.- ADMINISTRATOR

4.8.1 Save and Reboot

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.



4.8.2 Backup and restore

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
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.
Update setting	Click Browse to select the configuration file of device and then click Update Settings to begin updating the device configuration.
Restore Default Setting	Click this button to reset the device to default settings.



4.8.3 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.




4.8.4 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.



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4.8.5 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.



4.8.6 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.



4.8.7 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 Table:

4.8.8 Time Zone

By default, NTP Server synchronization is disabled. 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

Franja horaria seleccionada:

Habilitar sincronización de hora vía NTP

Servidor SNTP:

4.8.9 TR-069

It's possible to access to TR069 page in the following URL: **http://192.168.1.1:8000/tr069config.asp**

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).

TR-069 is enabled by default. 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.

TR-069 Configuración

Esta página permite establecer los parámetros para la Configuración del protocolo TR-069.

TR069:	<input type="radio"/> Deshabilitado <input checked="" type="radio"/> Habilitado
Interfaz WAN:	<input type="text" value=""/>
ACS:	
URL:	<input type="text" value="http://aca.epeedy.com.ar:7005/cwmp"/>
Usuario:	<input type="text" value="E4C146A0026B@telefonica"/>
Contraseña:	<input type="password" value="*****"/>
Informar periódicamente:	<input type="radio"/> Deshabilitado <input checked="" type="radio"/> Habilitado
Intervalo entre informes periódicos:	<input type="text" value="86400"/>
Solicitud de conexión:	
Usuario:	<input type="text" value="cpeOB S@gerencia"/>
Contraseña:	<input type="password" value="*****"/>
Ruta:	<input type="text" value="/tr069"/>
Puerto:	<input type="text" value="7547"/>
Advanced Option:	
Authenticate server's certificate:	<input type="radio"/> Deshabilitado <input checked="" type="radio"/> Habilitado
Debug:	<input checked="" type="radio"/> Deshabilitado <input type="radio"/> Habilitado
<input type="button" value="Aplicar"/> <input type="button" value="Deshacer"/>	
Gestión de certificado:	
CPE Contraseña de certificado:	<input type="text" value="client"/> <input type="button" value="Aplicar"/> <input type="button" value="Deshacer"/>
CPE Certificado:	<input type="text" value=""/> <input type="button" value="Examinar..."/> <input type="button" value="Actualización"/>
CA Certificado:	<input type="text" value=""/> <input type="button" value="Examinar..."/> <input type="button" value="Actualización"/>

4.9.- 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.

4.9.1 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 Interfases

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

4.9.2 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		
Margen SNR (dB)	Flujo de bajada	Flujo de subida
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	