COSMOTE
A better world, for all.

Speedport Plus 2

Instruction manual

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cosmote.gr

Contents

Chapter 1 Safety Precautions

Please note the following advice, in order to avoid physical injury!

- Never open Speedport Plus 2 or the mains plug by yourself.
- Never touch the plug contacts with pointed metallic items.
- Never install Speedport Plus 2 during a thunderstorm.
- Never connect or loosen electrical connections in order to avoid the danger of an electrical shock.
- Always install the electrical ducts, so no one can tread on them or stumble.
- Only operate Speedport Plus 2 with the included mains plug and only connect it to outlets, which correspond to the standards stated on the identification label. Never touch the mains plug with wet hands.

Always note the following warnings for installation, setup and operation of the Speedport Plus 2!

- Put Speedport Plus 2 on an anti-slip surface.
- Place Speedport Plus 2 away from heat sources, direct sunlight and other electrical devices.
- Do not place Speedport Plus 2 on heat sensitive surfaces.
- Protect Speedport Plus 2 from moisture, dust, liquids and steams.
- Do not store or place Speedport Plus 2 in humid places (i.e. bathroom) or in hazardous areas.
- Never place items on Speedport Plus 2. The vent openings on Speedport Plus 2 are necessary for cooling and must not be covered.
- Connect Speedport Plus 2 only to the appropriate outlets. Only connect authorized accessories to the Speedport Plus 2.
- Wipe Speedport Plus 2 only with a soft, dry and anti-static cleaning cloth. Do not use cleaning agents on the Speedport Plus 2.
- Never disconnect Speedport Plus 2 from the power source or from its broadband connection during an automatic configuration or firmware update.
- Not following the above warnings might risk the loss of data and may cause malfunctioning of your Speedport Plus 2.
- Speedport Plus 2 may only be repaired by authorized service personnel.

Note: Always choose strong and secure passwords for the Speedport Plus 2!

OTE S.A. cannot be held responsible for damages resulting from improper use of the device!

Information of power adapter

- Input voltage: 100Vac~240Vac
- Input AC frequency: 60Hz/50Hz
- Output voltage: 11.4V~ 12.6V
- Output current: 2.0A
- Output power: 24W
- Average active efficiency: 86.2% min. @115/230Vac input (@25%, 50%, 75% and 100% of max load)
- Efficiency at low load (10 %):76.80% min. @115/230Vac input (@10% of max load)
- No-load power consumption: ≤0.1W(115Vac/60Hz,230Vac/50Hz)

Chapter 2 Overview

2.1 Product Introduction

Speedport Plus 2 is a broadband router with integrated DSL modem. This device supports VDSL2 (17a & 35b) and ADSL2+ for high download speeds. The device allows wired and wireless clients to safely access the Internet. The USB port allows the user to connect USB storage devices for storing or sharing files through the network and to connect COSMOTE Internet Backup Dongle for backup. Additionally, the two FXS ports allow the user to attach analogue devices such as telephones, answering machines or fax machines.

Note: Brands or trade names in this manual are for instructional purposes only. They remain under all circumstance the property of their respective rights owner.

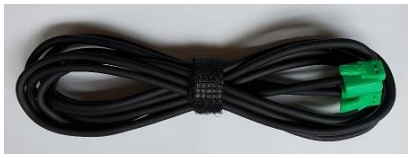
2.2 Packing List

Check package content.

Unpack your Speedport Plus 2 and check package content on completeness.

Table 2-1 Packing List

Componant Name	Count	Image
Speedport Plus 2	1	
Mains plug	1	
RJ45/RJ45, yellow plugs	1	

RJ11/RJ11, grey plugs	1	
RJ11/RJ11, blue plugs	1	
RJ11/RJ11, green plugs twisted-pair	1	
Phone/Modem Splitter	1	
DSL Filter	1	
2-Female to 1-male RJ11 Converter	1	

Please examine the contents (device, cables and power supply) for damages during transport before you start using the Speedport Plus 2.

Do not use Speedport Plus 2 if damages were found.

Please contact the Customer Service of OTE, for more information.

2.3. Product Features

Speedport Plus 2 is an IAD product that has the following technical specifications and supported features:

- ADSL2+ (ITU-T G.992.5)
- VDSL2 (ITU-T G.993.2)
- Supervectoring/Vectoring and SRA
- Dual Band Concurrent Wi-Fi at 2.4GHz and 5GHz with support of WLAN 802.11ax with 2x2 2.4GHz/4x4 5GHz (MIMO/MU-MIMO)
- Wi-Fi security encryption (WPA/WPA2/WPA3)
- Telephony (IMS 3GPP TS 23.228 & 3GPP 24.229)
- NAT/Firewall/UPnP/Port Forwarding/DHCP/DDNS client
- Supported Ports:
  - 1 x xDSL Port
  - 3 x Gigabit Ethernet LAN Ports
  - 1 x Gigabit Ethernet LAN/WAN Port
  - 1 x USB 2.0 Port
  - 2 x FXS Ports

2.4. Interfaces and Buttons

Table 2-2 Interfaces and Buttons

Interface/Button	Description
Power	Power jacket
Reset	In Power-on state, press for at least five seconds to reset the device to factory default settings
DSL	RJ-11 xDSL port
LAN1/WAN	This port can be used as a WAN port to establish an Internet connection or as a LAN port to connect to the local network.
LAN2-LAN4	Use the RJ45 cables to connect to the local network
Phone1-Phone2	Use the RJ11 cable to connect analog devices for VoIP Telephony service.
WPS Button	Push the WPS button (more than one second) on the device and on your other wireless device to perform WPS function.
Wi-Fi Button	Activate the Wi-Fi function of the device by pressing the Wi-Fi button (more than one second)
USB	The connector is USB host with support for mass storage device.

2.5. Indicators

Table 2-3 Indicators on the Front Panel

LED Name	Color(s)	Display Status	Description
Power	White	On for 3 sec	Power On
		Flashing	Device Bootstrap in progress
		On for 0.5 sec and flashing at the same time (all LEDs)	Factory reset in progress
		Solid White	Device is ready for operation
		Flash in turn (all LEDs)	System upgrade in progress
	Red	Flashing	Device Bootstrap failed
			System failure
			HW self-test failure
	Green	Solid Green	Sleep mode
DSL	White	On for 3 sec	Power On
		Flashing in turn (all LEDs)	System upgrade in progress
		On for 0.5 sec and flashing at the same time (all LEDs)	Factory reset in progress
		Flashing	DSL-Port Synchronizing
		Solid White	DSL-Port Synchronized
Online	White	On for 3 sec	Power On
		Flashing in turn (all LEDs)	System upgrade in progress
		On for 0.5 sec and flashing at the same time (all LEDs)	Factory reset in progress
		Solid White	WAN Link OK and Internet WAN IP retrieved (Ethernet, DSL or Mobile)

Telephony	White	On for 3 sec	Power On
		Flashing in turn (all LEDs)	System upgrade in progress
		On for 0.5 sec and flashing at the same time (all LEDs)	Factory reset in progress
		Flashing	Call is in progress
		Solid White	Telephony ready to use
Service	Yellow	On for 3 sec	Power On
		Flashing in turn (all LEDs)	System upgrade in progress
		On for 0.5 sec and flashing at the same time (all LEDs)	Factory reset in progress
		Flashing	Critical processes in progress (e.g., system update) and user interface is disabled
Wi-Fi	White	On for 3 sec	Power On
		Solid White	Wi-Fi 2.4G or 5G on
		Flashing in turn (all LEDs)	System upgrade in progress
		Flashing in turn for 5 sec (only WPS and Wi-Fi LEDs)	WPS Pairing timeout or WPS session overlap
		On for 0.5 sec and flashing at the same time (all LEDs)	Factory reset in progress
WPS	White	On for 3 sec	Power On
		Flashing	WPS Pairing in progress
		On for 5 sec	WPS Pairing success
		On for 0.5 sec and flashing at the same time (all LEDs)	Factory reset in progress
		Flashing in turn (all LEDs)	System upgrade in progress
		Flashing in turn	WPS Pairing timeout or WPS

		for 5 sec (only WPS and Wi-Fi LEDs)	session overlap

Caution: Never disconnect your Speedport Plus 2 from the power source or the broadband connection during a firmware update. This may result in data loss causing a possible malfunction of your device.

2.6. Technical Specifications

Table 2-4 Technical Specifications

Item	Specifications
DSL Standards	ADSL, ADSL2, ADSL2+, VDSL, VDSL2
1 DSL	RJ11
4 LAN	RJ-45, 10/100/1000 auto MDI/MDIX
1 USB	USB 1.0 / 1.1 / 2.0
Wi-Fi Standards	IEEE 802.11b/g/n/ac/ax
Frequency area	2.400 - 2.4835 GHz (IEEE 802.11b/g/n/ax) 5.180 - 5.700 GHz (IEEE 802.11a/n/ac/ax)
Radio channels	13 at IEEE 802.11b/g/n (2,4 GHz), 19 at IEEE 802.11n/a/ac/ax (5 GHz)
Max. Clients	192 (2.4G:128, 5G:64)
Max. Range	around 30 m in buildings around 150 m in the open with indivisibility
Transmission rate Wireless	IEEE 802.11b: up to 11 Mbps IEEE 802.11g: up to 54 Mbps IEEE 802.11a: up to 54 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 2500 Mbps IEEE 802.11ax: up to 4800 Mbps
Internet Browser	Microsoft Internet Explorer above Version 9.0, Mozilla Firefox above Version 13.0, Safari

Security	WPA2/WPA3 MAC-Filter, NAT, Firewall
Voltage	see type label of mains adapter
Possible environmental temperature	0 °C to 40 °C ; with 5 % to 95 % relative air humidity
Dimensions	223 x 157.5 x 80 mm
Weight	900 g
Certification	CE certification

Chapter 3 Configuration Preparation

Speedport Plus 2 Placement

The area where you place your device should be near an electrical outlet.
You can put your device on a flat surface or hang it on the wall.

Please note the following:

- Place your device in a dry and dustfree location with no direct sunlight exposure.
- Please note the maximum cable length when you are connected to device.
- If you want to set up a Wi-Fi connection between your network capable device and Speedport Plus 2, place your Speedport Plus 2 in a central position or above table height.
- Radio waves are weakened by objects or walls.
  Choose a location where no obstacles can disrupt the radio waves.
- Please keep away from sources of disruption such as microwaves or other large
  metal electrical devices.

Advise: Modern furnitures are often covered with a variety of layers of varnish or synthetics. These materials contain components that could corrode or soften the rubber feet of your Speedport Plus 2. The corroded rubber can stain the surface of furnitures. Temperature sensitive surfaces can also be damaged by heat produced by the Speedport Plus 2.

Speedport Plus 2 Connection

The Speedport Plus 2 is a high quality device that works flawlessly if all necessary operation conditions are met. So please follow the instruction carefully while you connect your Speedport Plus 2.

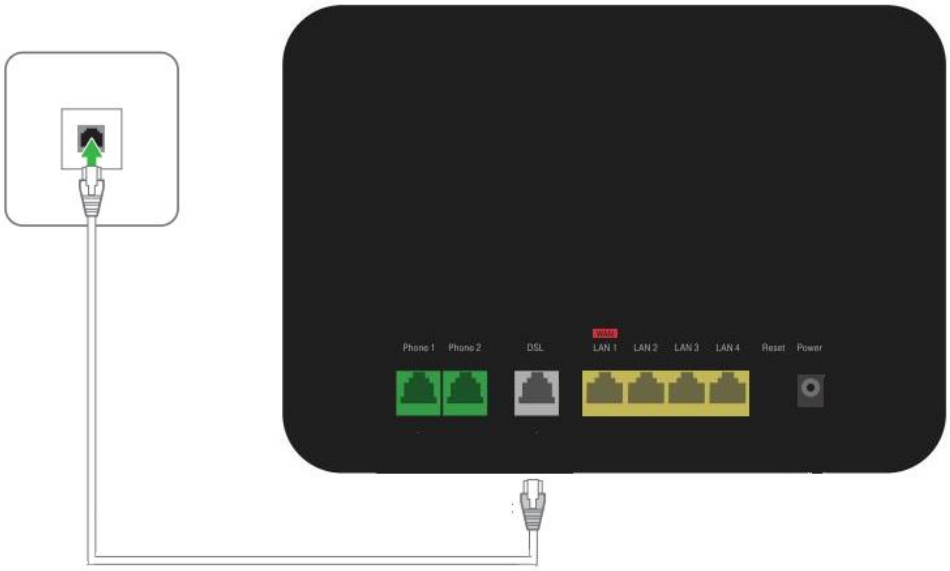
Notice: As soon as the Speedport Plus 2 has been connected for the first time to power and to broadband network, the software may be updated automatically (firmware update). In such case, please **do not disconnect** the device from the power outlet or remove the WAN cable (xDSL or Ethernet WAN in case of FTTH) until the 'Service' LED stops blinking.

Suggestion: Please consult the following pages for detailed information on the Speedport Plus 2's GUI.

3.1 Hardware Connection

Connect Broadband:
Connect the RJ11 connector of the telephone cable in your household to the DSL connector on the Speedport Plus 2 (RJ11/RJ11, grey connector).

Figure 3-1 Separator Connection



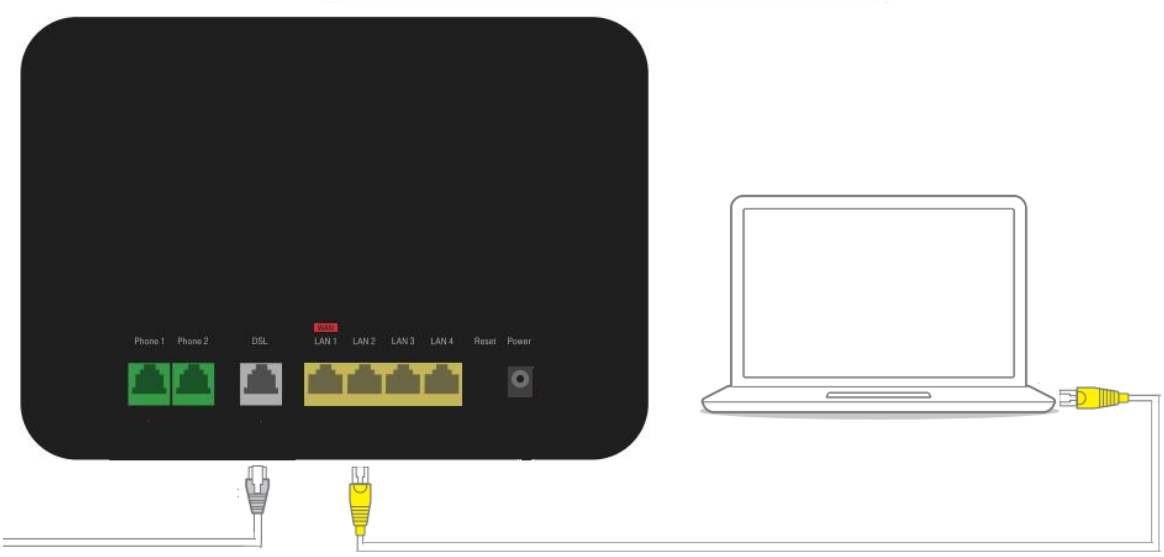
Notice: If you use a broadband connection with splitter, please refer to the Quick Installation Guide.

Connect Computer with Ethernet Cable:

Connect one of the LAN ports of your Speedport Plus 2 to the LAN interface of your computer (yellow connector).

Figure 3-2 LAN Interface Connection

Speedport Plus 2 Computer



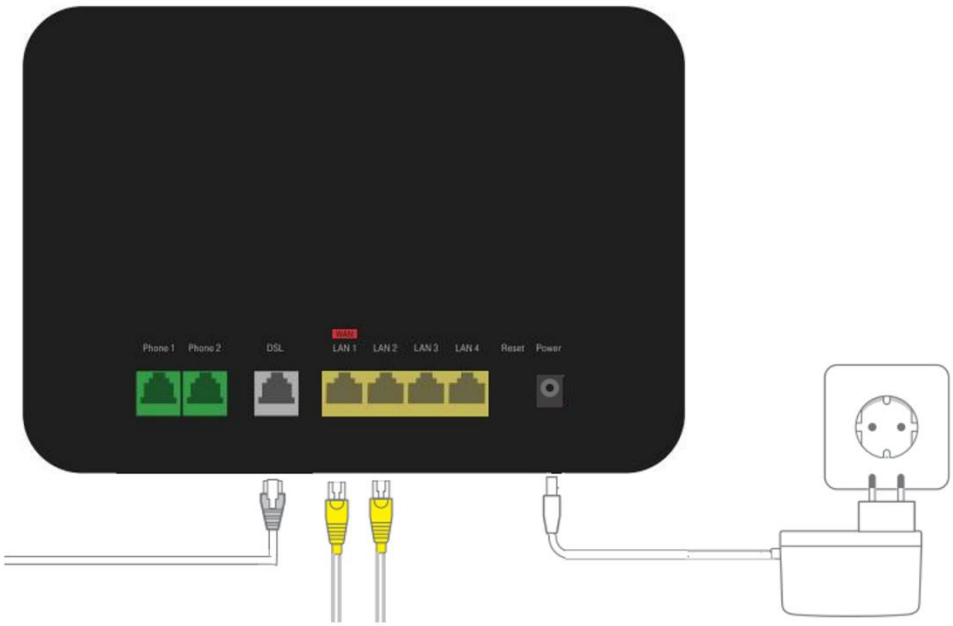
Suggestion: The procedure on how to connect Wi-Fi capable devices with Speedport Plus 2 is located in **Quick Installation Guide** and under the chapter **Connect devices with Wi-Fi** of this instruction manual.

Connect Power Supply

Connect Speedport Plus 2 with the power outlet.

Figure 3-3 Power Supply Connection

Speedport Plus 2 Outlet



Notice: Just connect your Speedport Plus 2 with the included power supply. Your Speedport Plus 2 starts to boot. The LED ‘Power’ blinks until the boot process
is finished.

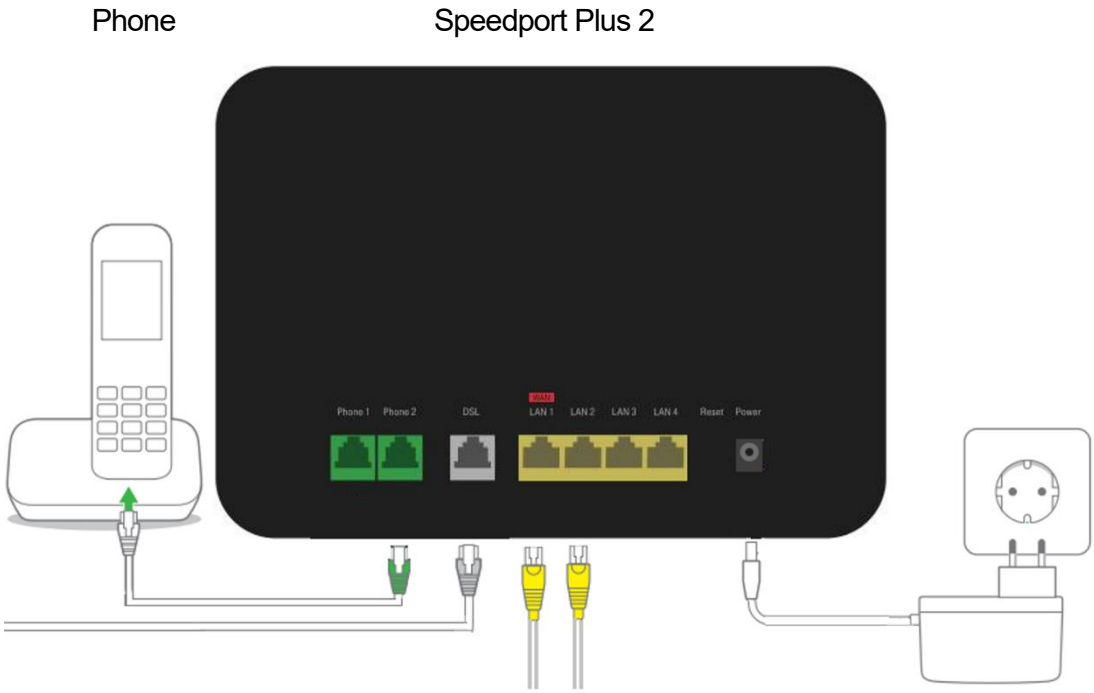
Notice: Do not disconnect your Speedport Plus
2 from the power source. Please wait
until the ‘Power’ LED
stops blinking. An interruption of the boot process can damage
your Speedport Plus 2!

Telephone Connection:

You can connect up to two analogue devices (i.e. fax device, analogue phones) to your Speedport Plus 2.

Analogue telephone connection

Figure 3-4 Telephone Connection



1. Connect your analogue telephone, fax machine or answering machine to the Phone port 1 or 2 of your Speedport Plus 2.
2. Details on configuring Telephony functions are located in a later chapter.

Notice: In case of power blackout, no calls can be made through the analogue dev ices
attached to your Speedport Plus 2 Phone ports.

Mount your Speedport Plus 2 to the wall:

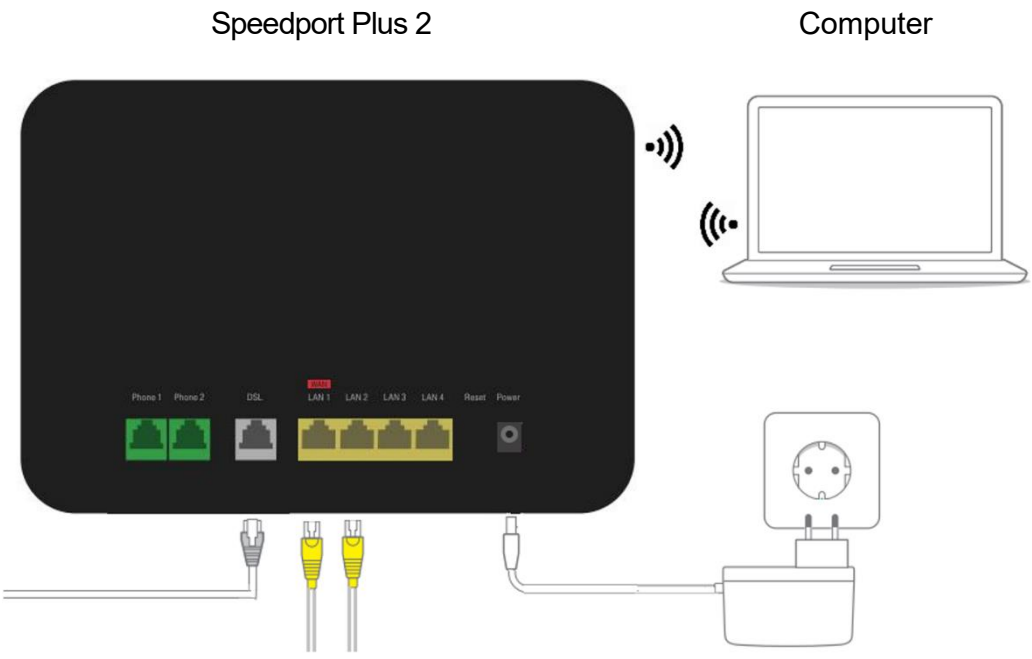
After connecting all cables, you can mount your Speedport Plus 2 to the wall.

1. Mount two screws (not included in the package) to the wall.
   Suggestion: Use the marks on the backside of your Speedport Plus 2 Plus as template for marking the drill holes.
2. Hang your Speedport Plus 2 on the fixed screws.

Connect devices with Wi-Fi

In a wireless home network (Wi-Fi), the connection between the devices is established by radio waves. The devices have to be equipped with a Wi-Fi adapter in accordance with standard IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac
or IEEE 802.11ax. Modern devices normally include an internal Wi-Fi adapter.

Figure 3-5 Wi-Fi Connection



The way to connect network capable devices via Wi-Fi with your Speedport Plus 2 may be different, depending on the operation system in use. The following operation
systems will be described here:

· Windows 10
· Windows 8
· Windows 7
· OS X Mountain Lion
· OS X Lion
· iOS 6
· Android 4

For connection of your network capable devices via Wi-Fi to your Speedport Plus 2, the
Wi-Fi function on Speedport Plus 2 and on the devices has to be activated.

Suggestion: Activate the Wi-Fi function of your Speedport Plus 2
by pressing the Wi-Fi
button (more than one second) on the front side of your Speedport Plus 2; the display
Wi-Fi will be illuminated. By default the Wi-Fi function is activated. WPS function is activated by pressing the **WPS** button for more than one second.

Connect Windows 7/8/10 via Wi-Fi

For Windows 7, please follow the steps below:

1. From the system tray (located next to the clock), click the Wireless network icon. Alternate navigation: click Start > Control Panel > View network status and tasks > Connect to a network.
2. Click on the **Wi-Fi name** (SSID) of your Speedport Plus 2 (Wi-Fi name (SSID) is located on the label of the device found in the bottom of it).
3. Click **Connect**
4. Enter the Wi-Fi key of your Speedport Plus 2 into the entry field. (Wi-Fi key is located on the label of the device.)
5. Choose between **public network** and **home or business network.**

Connect OS X Mountain Lion / Lion via Wi-Fi

For OS X Mountain Lion or OS X, please follow the steps below:

1. Click on the **Wi-Fi symbol** in the menu bar.
2. Click on the statement **activate Wi-Fi**.
3. Click on the **Wi-Fi name** (SSID) of your Speedport Plus 2. (Wi-Fi name (SSID) is located on the label of the device.)
4. Enter the **Wi-Fi key** of your Speedport Plus 2 in the entry field. (Wi-Fi key is located on the label of the device.)

Connect iOS 6 via Wi-Fi

For iOS, please follow the steps below:

1. Click on icon **Settings**.
2. Click on the entry **Wi-Fi**.
3. Activate the **Wi-Fi function**.
4. Click on the **Wi-Fi name** (SSID) of your Speedport Plus 2. (Wi-Fi name (SSID) is located on the label of the device.)
5. Key in the **Wi-Fi key** of your Speedport Plus 2 in the input box. (Wi-Fi key is located on the label of the device.)
6. Click on **Connect**.

Connect Android 4 via Wi-Fi.

For Android 4, please follow the steps below:

1. Tip on the icon **Settings**.
2. Tip on the statement **Wi-Fi**.
3. Activate the **Wi-Fi function**.
4. Click on the **Wi-Fi name** (SSID) of your Speedport Plus 2. (Wi-Fi name (SSID) is located on the label of the device.)
5. Enter the **Wi-Fi key** of your Speedport Plus 2 in the entry field. (Wi-Fi key is located on the label of the device.)
6. Click on **Connect**.

Install your Speedport Plus 2

With your Speedport Plus 2 all your connected computer and network capable devices can access the internet at the same time. Before you can connect your devices, the Speedport Plus 2 has to be configured with the proper parameters. As soon as the Speedport Plus 2 has been connected for the first time to power and to broadband network, it will be configured automatically for Internet and Telephony service. For advance configuration you can use its Graphical User Interface (GUI). The procedure is identical for all internet browsers. For example, we suggest the Microsoft Internet Explorer version 9.0 or above, Mozilla Firefox starting from version
13 or Safari.

Configuration requirements

The network capable device has established a connection with the Speedport Plus 2 (through Wi-Fi or LAN).

For Windows 10 & 11, please follow the steps below:

1. Select **Start**, then select **Settings** > **Network & Internet**.
2. Choose one of the following:
   - Select **Wi-Fi** > **Manage known networks** for a Wi-Fi network. Choose the network
     you want to change the settings for, then select **Properties**.
   - Select **Ethernet** for an Ethernet network, then select the Ethernet network you are
     connected to.
3. Under IP assignment, select **Edit**.
4. Under Edit IP settings, select **Automatic** (DHCP)
5. Select **Save**.

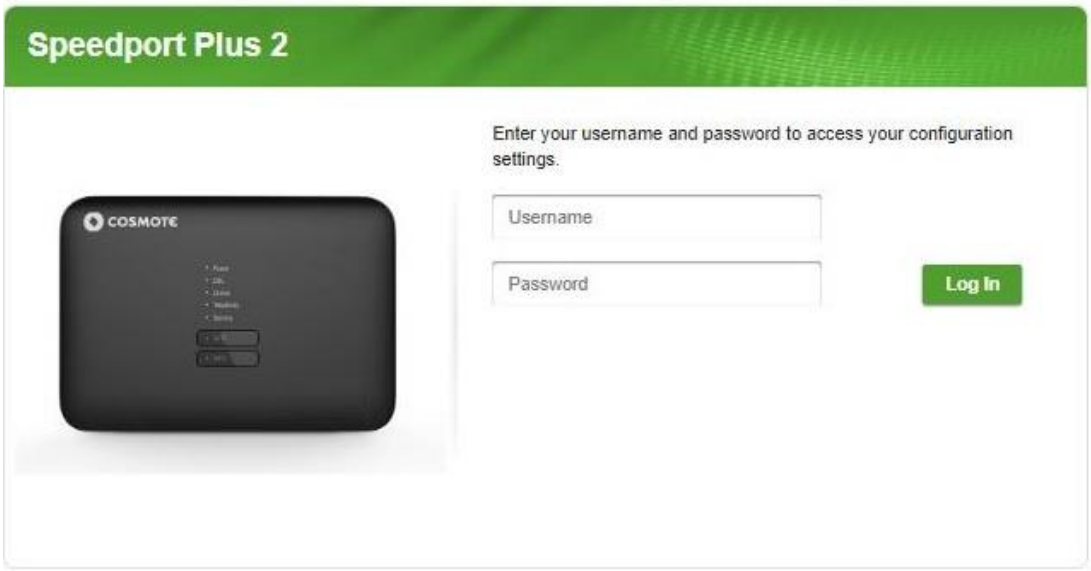
For Mac, please follow the steps below:

1. Choose the Apple menu.
2. Click the network connection you want to use. Choose **System Settings**, then click **Network** in the sidebar. (You may need to scroll down.)
3. On the right pane, click **Details**.
4. Click **TCP/IP**.
5. Click the Configure IPv4 pop-up menu, then choose option “**Using DHCP**”.

3.2 Login into the Device

In order to login into the Speedport Plus 2 Graphical User Interface (GUI), enter the IP address of your Speedport Plus 2 in the address line of your internet browser. The default IP address is 192.168.1.1.

Figure 3- 6 Login



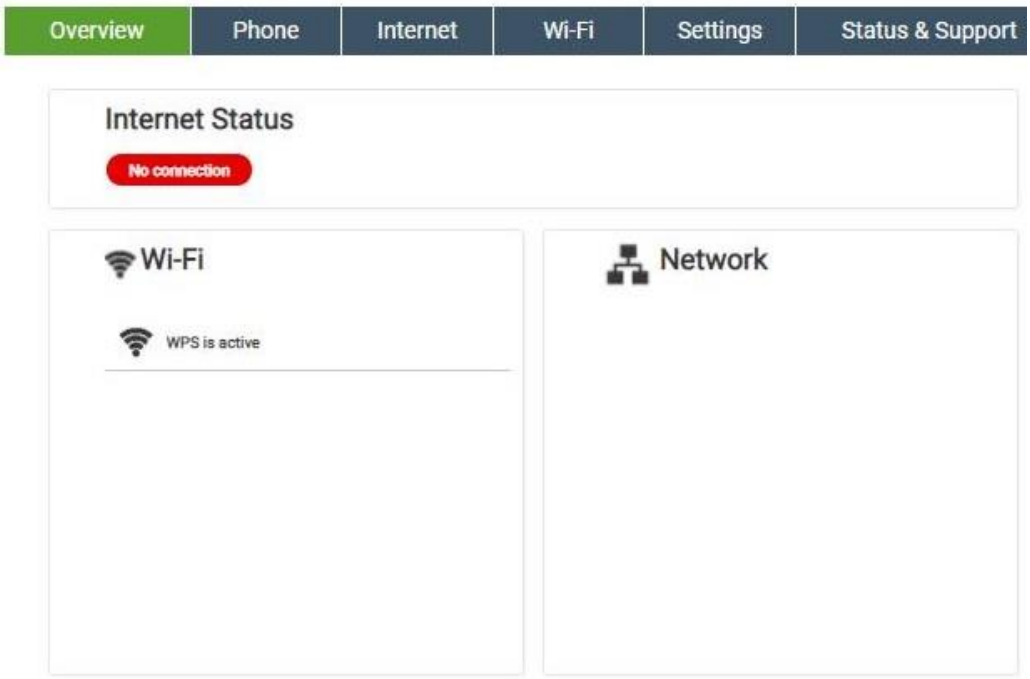
1. Enter the username and password (displayed on the label of the device found in the bottom of it) in the fields.
2. Click **Log In**. The home page of the configuration will be displayed.

Notice: After entering an incorrect password, the wait time for re-entering the password will be doubled. That is to protect your Speedport Plus 2 against unauthorized access to your configuration data.

3.3 Overview

This screen will be displayed when you log in the program.

Figure 3-7 Overview



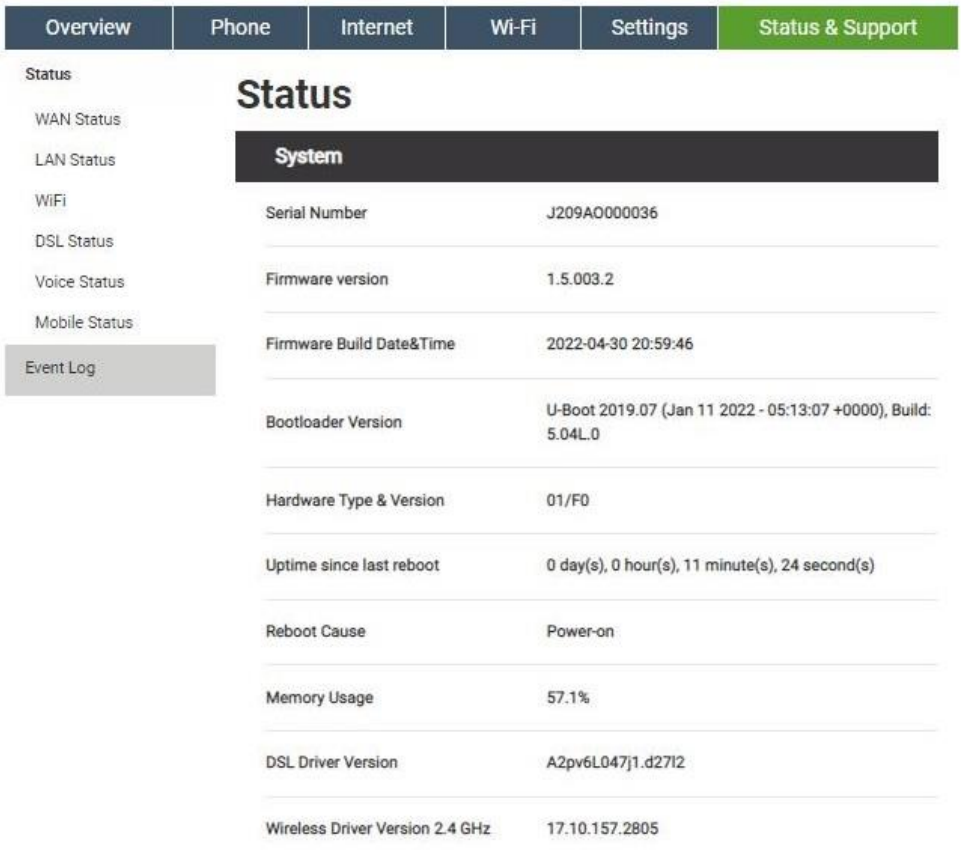
Click on the tabs above to change the corresponding setting.

Chapter 4 Status

4.1 Status

You can check the firmware version, system uptime and the DSL driver version in this screen.

Figure 4-1 System

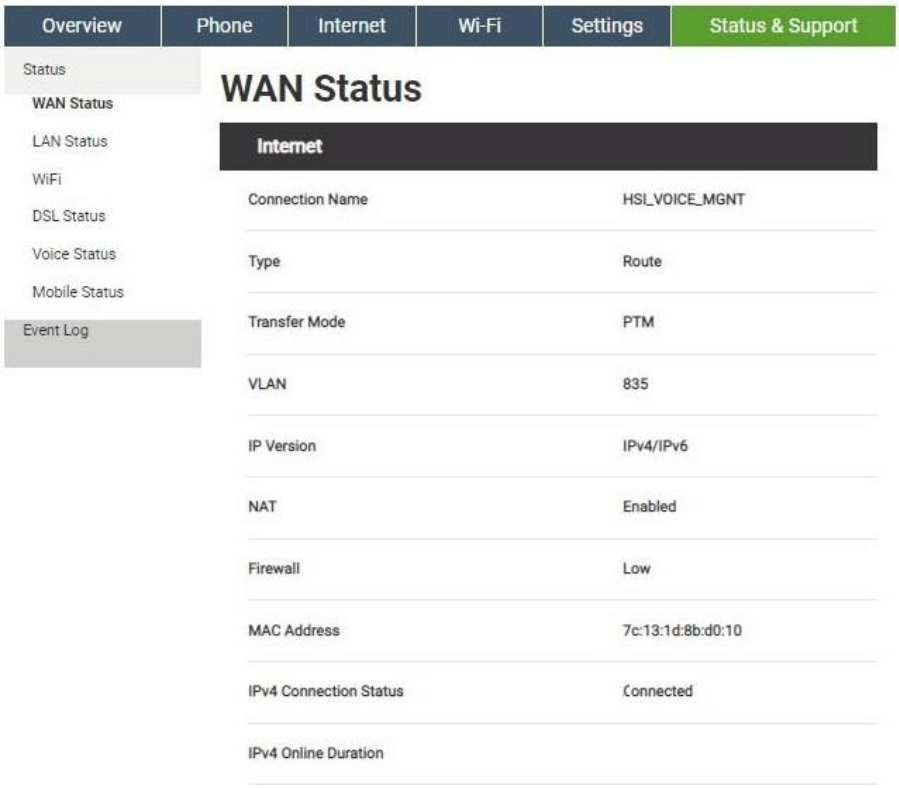


1. Click **Status & Support** on the top column.
2. Click on the **Status**.

4.1.1 WAN Status

In this menu you can see important information about the active services provided by the device such as WAN IPs acquired, transfer mode, VLAN values and IPv4/IPv6 duration time.

Figure 4-2 WAN Status

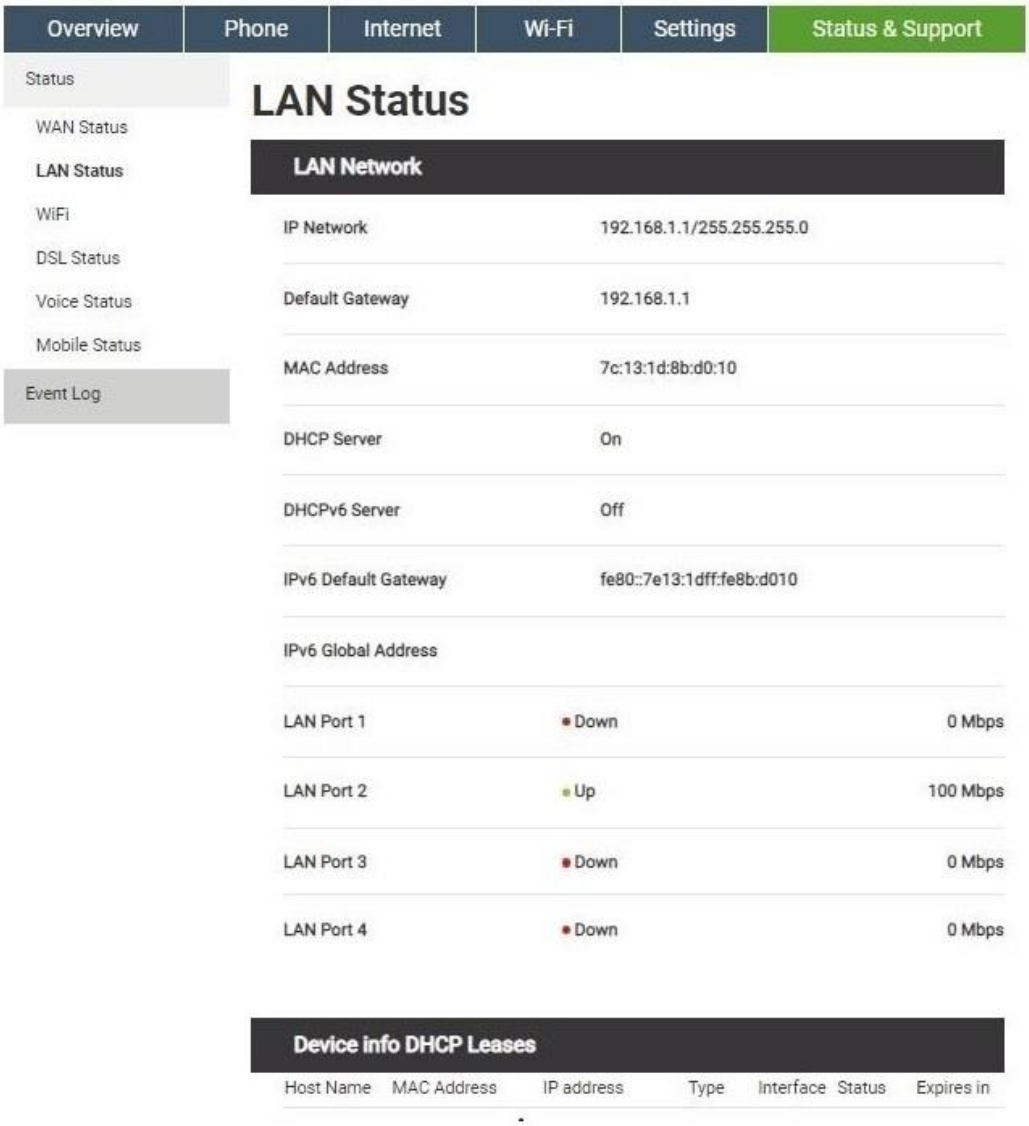


1. Click on **WAN Status**.

4.1.2 LAN Status

All LAN network related information will be displayed in this screen.

Figure 4-3 LAN Status

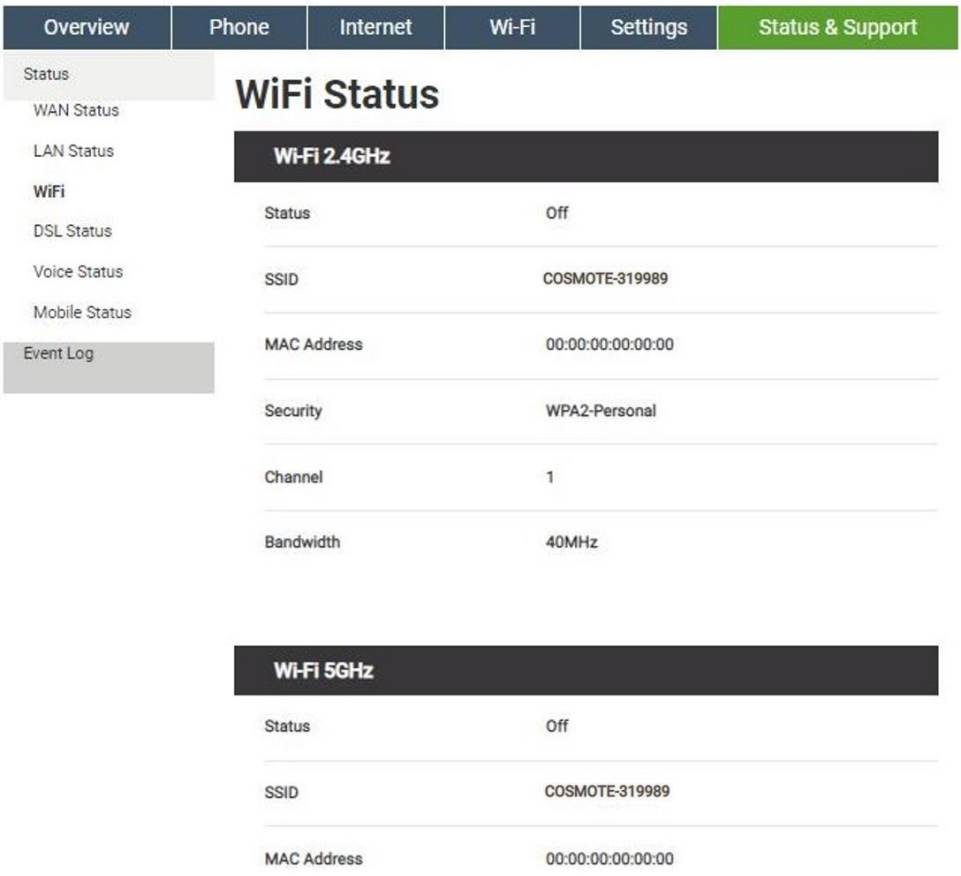


1. Click on **LAN Status**.

4.1.3 Wi-Fi

The Wi-Fi (2.4GHz/5GHz) network information will be displayed on this screen.

Figure 4-4 Wi-Fi Status

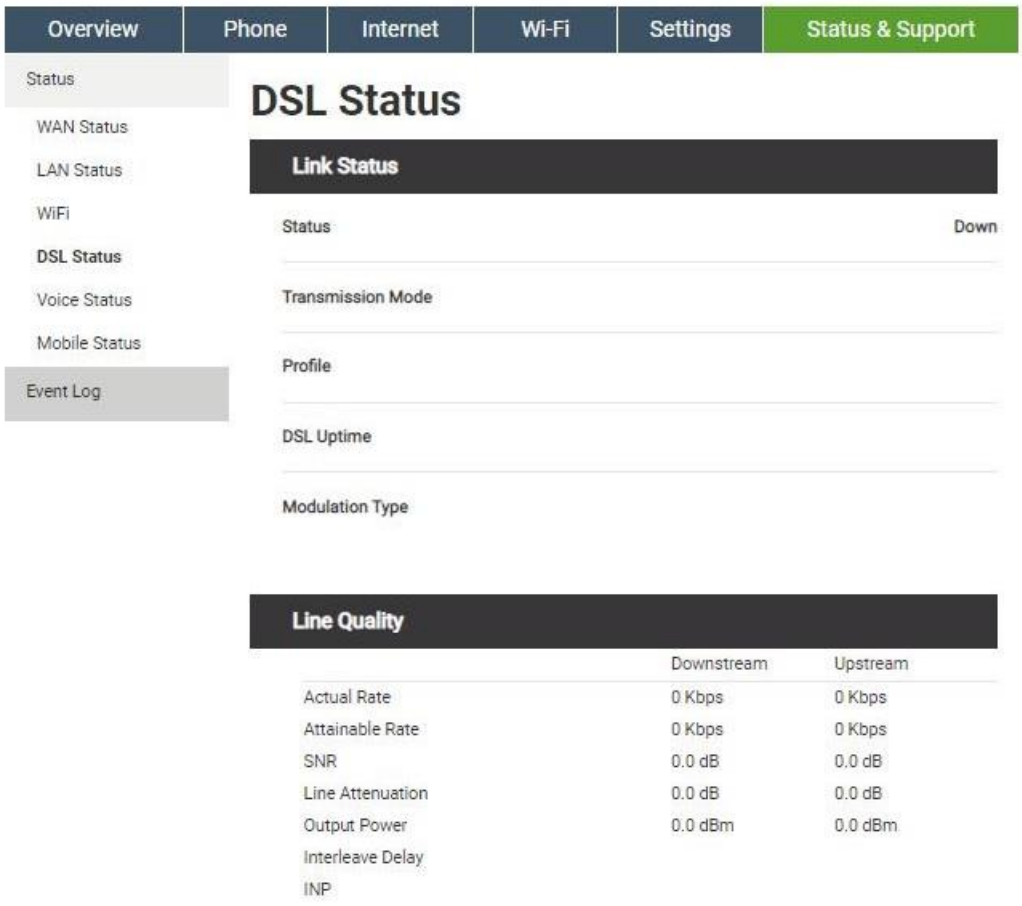


1. Click on **Wi-Fi**.

4.1.4 DSL Status

This screen shows the details of the link status and line statistics.

Figure 4-5 DSL Status



1. Click on **DSL Status**.

4.1.5 Voice Status

This screen shows the details of the phone numbers.

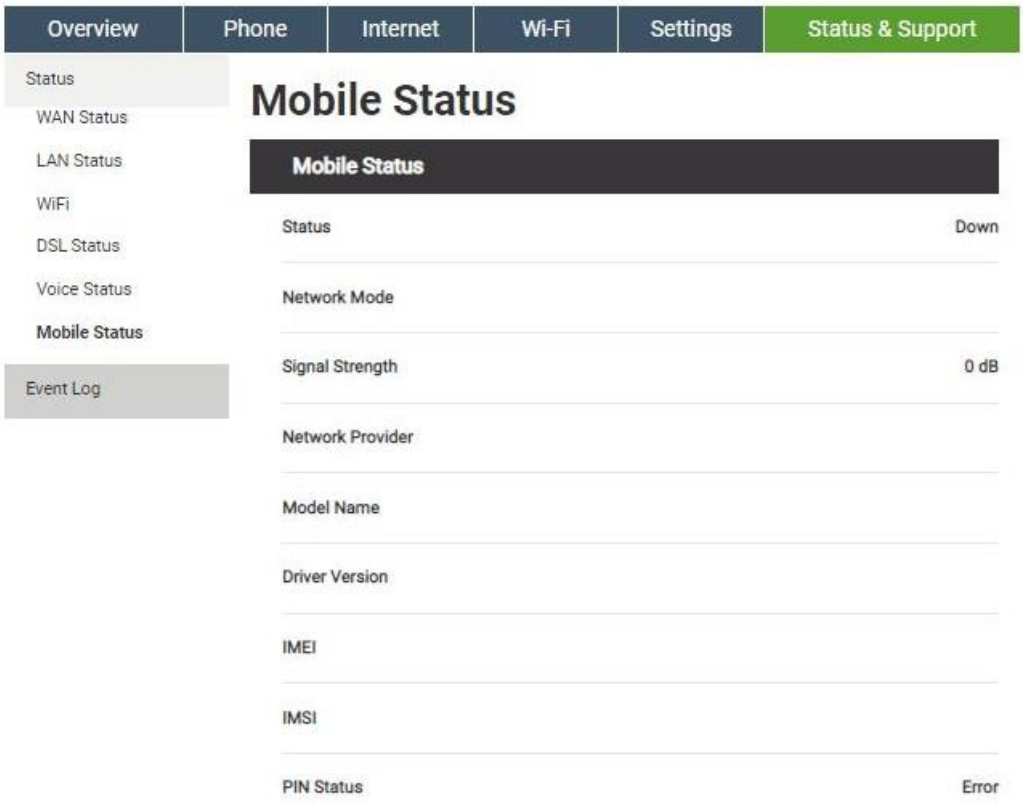
Figure 4-6 Voice Status

1. Click on **Voice Status**.

4.1.6 Mobile Status

This screen shows the information of the active mobile device.

Figure 4-7 Mobile Status

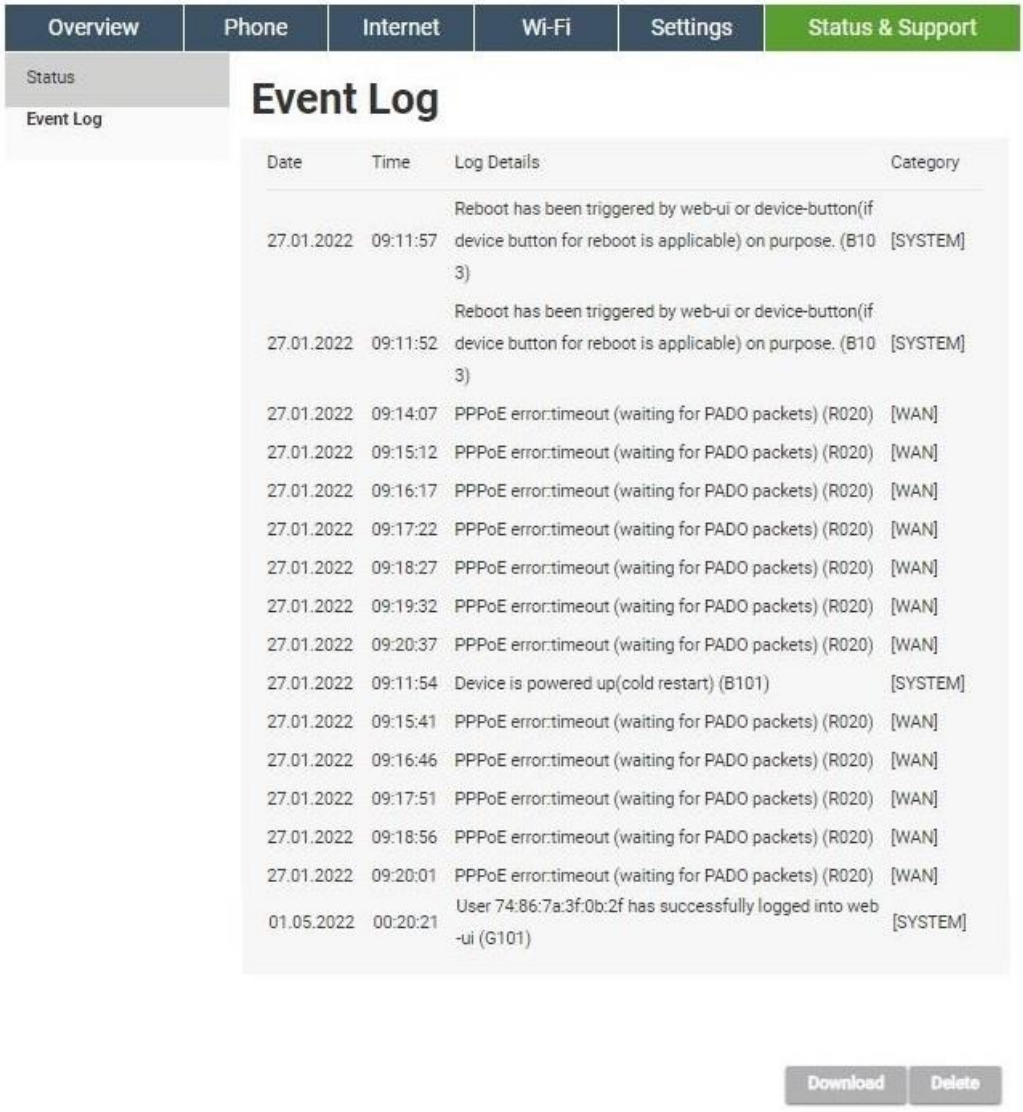


1. Click on **Mobile Status**.

4.2 Event Log

This screen shows the hardware/software events of the Speedport Plus 2.

Figure 4-8 Event Log



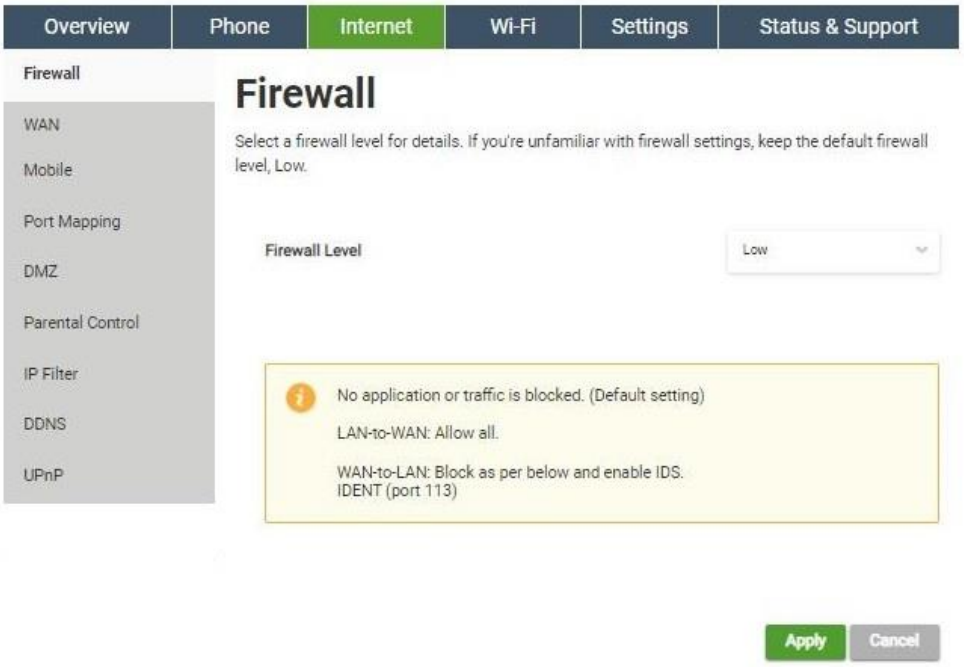
1. Click on **Event Log**.
2. Use the **Download** button to download and save the log file.
3. Click the **Delete** button to remove the log.

Chapter 5 Internet Menu

5.1 Firewall

You can configure the firewall settings in this screen.

Figure 5-1 Firewall



1. Click on **Firewall**.
2. Select the desired level of the firewall from the list (Table 5-1).
3. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

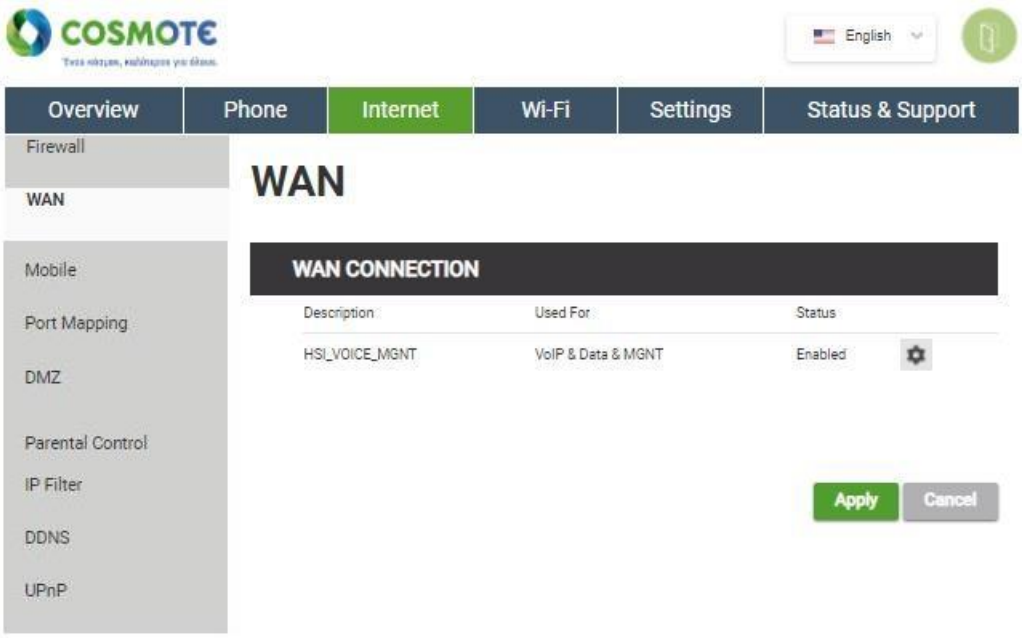
Table 5-1 Parameters for Firewall Level

Parameter	Description
Firewall Level	This feature can help protecting your network by filtering traffic and blocking outsiders from gaining unauthorized access. There are 3 options: ● Low: No application or traffic is blocked. ● Medium: Blocks pings to the Gateway but allows all other traffic. ● High: Blocks all applications, including voice applications and P2P applications, but allows Internet, email, VPN, DNS, and iTunes services.

5.2 WAN

Configure the WAN settings in this screen.

Figure 5-2 WAN



1. Click on **WAN**.
2. The table lists the current existing WAN connections.
3. The icon  can be used to add or modify the Internet connection of WAN.
4. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

5.2.1 Internet Connection

You can configure the Internet settings in this sub-screen. When you have finished configuring your settings, confirm the changes by clicking the **Save** button. Click the **Cancel** button if you do not want to save your changes.

Figure 5-3 Edit Internet Connection

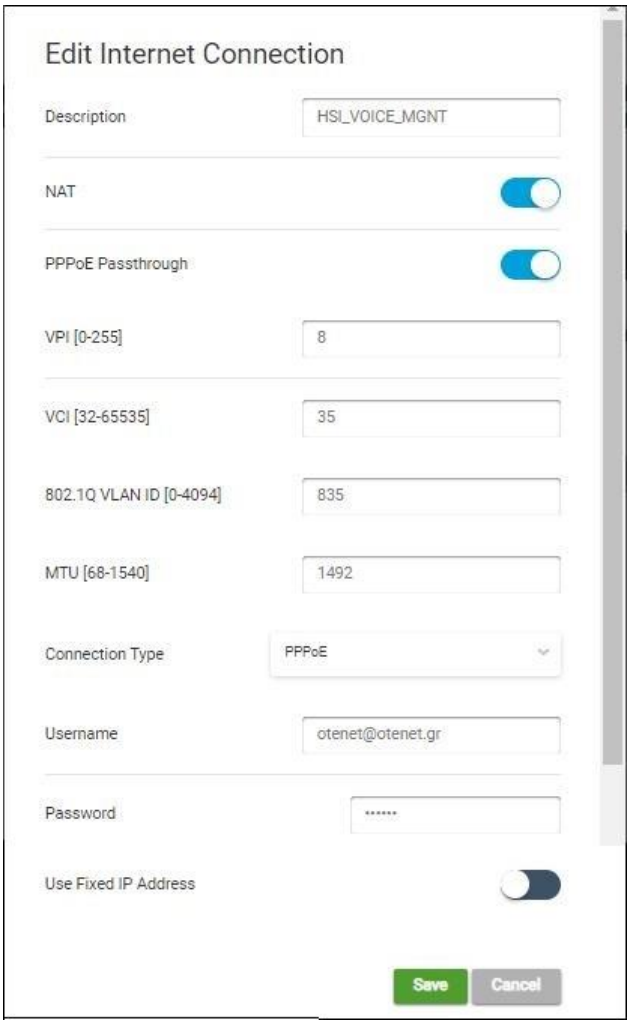


Table 5-2 Parameters for Internet Connection

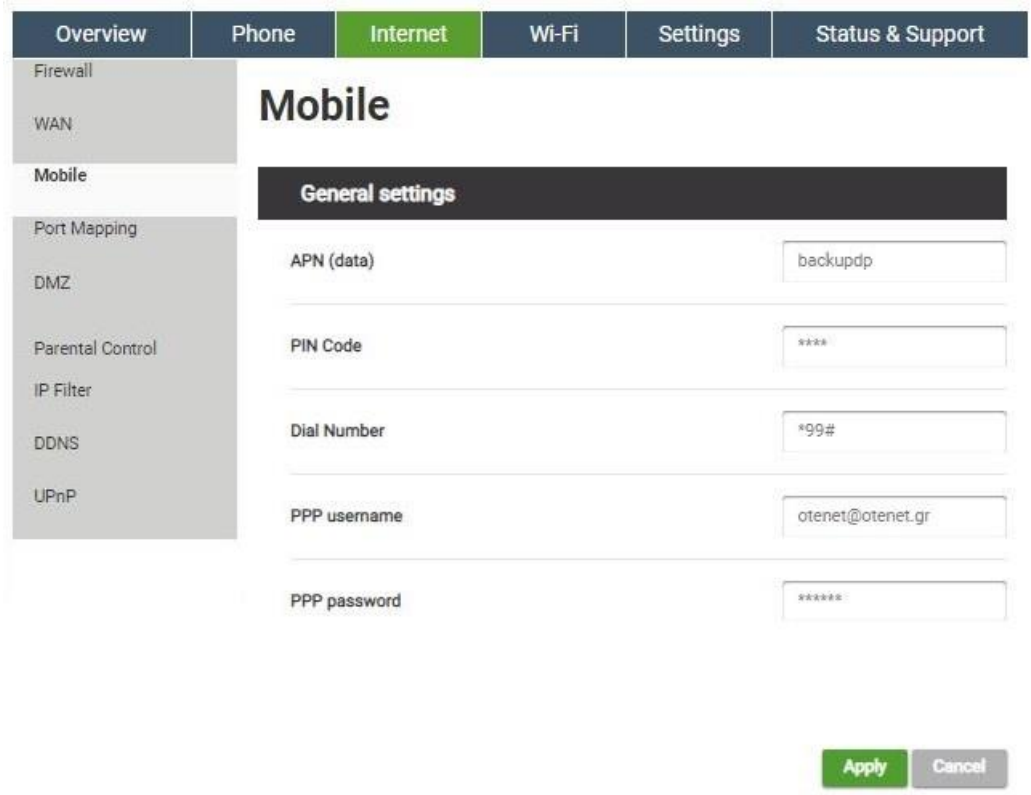
Parameter	Description
Description	The connection name is generated automatically.
Enable NAT	If enabled, NAT can be used to convert the private network address to the public network address of the WAN port. If this option is not enabled, you will not be able to surf to the Internet in case you are using private IP addresses in your LAN.

PPPoE Passthrough	If enabled, the LAN/Wi-Fi devices can initiate PPPoE sessions.
VPI	Enter the value for VPI (0-255).
VCI	Enter the value for VCI (32-65535).
802.1Q VLAN ID	Enter the value for VLAN ID (0-4094).
MTU	Define the maximum transfer unit. Default is 1492.
Connection Type	Choose either PPPoE (default) or DHCP.
Username/Password	Enter the user name and password provided by the I SP. (PPPoE available only)
Use Fixed IP Address	Enable this option if your internet provider has supplied you with a Static IP address.

5.3 Mobile

You can configure the mobile settings in this screen.

Figure 5-4 Mobile



1. Click on **Mobile**.
2. Configure the following parameters (Table 5-3).
3. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Table 5-3 Parameters for General settings

Parameter	Description
APN	Enter the value for APN.
PIN Code	Enter the PIN code.
Dial Number	Enter the dialing numbers.
PPP username	Enter the username for PPP.
PPP password	Enter the password for the username above.

5.4 Port Mapping

You can configure the port mapping settings in this screen.

Figure 5-5 Port Mapping

1. Click on **Port Mapping**.
2. Click **Add** to create the new service.
3. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

5.4.1 Add Port Mapping

You can configure the Internet settings in this sub-screen. When you have finished configuring your settings, confirm the changes by clicking the **Save** button. Click the
Cancel button if you do not want to save your changes.

Figure 5-6 Add Port Mapping

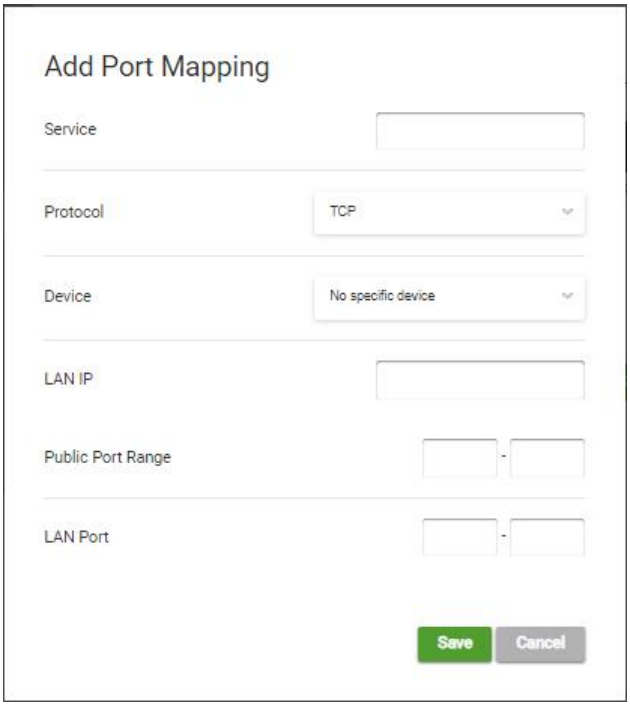


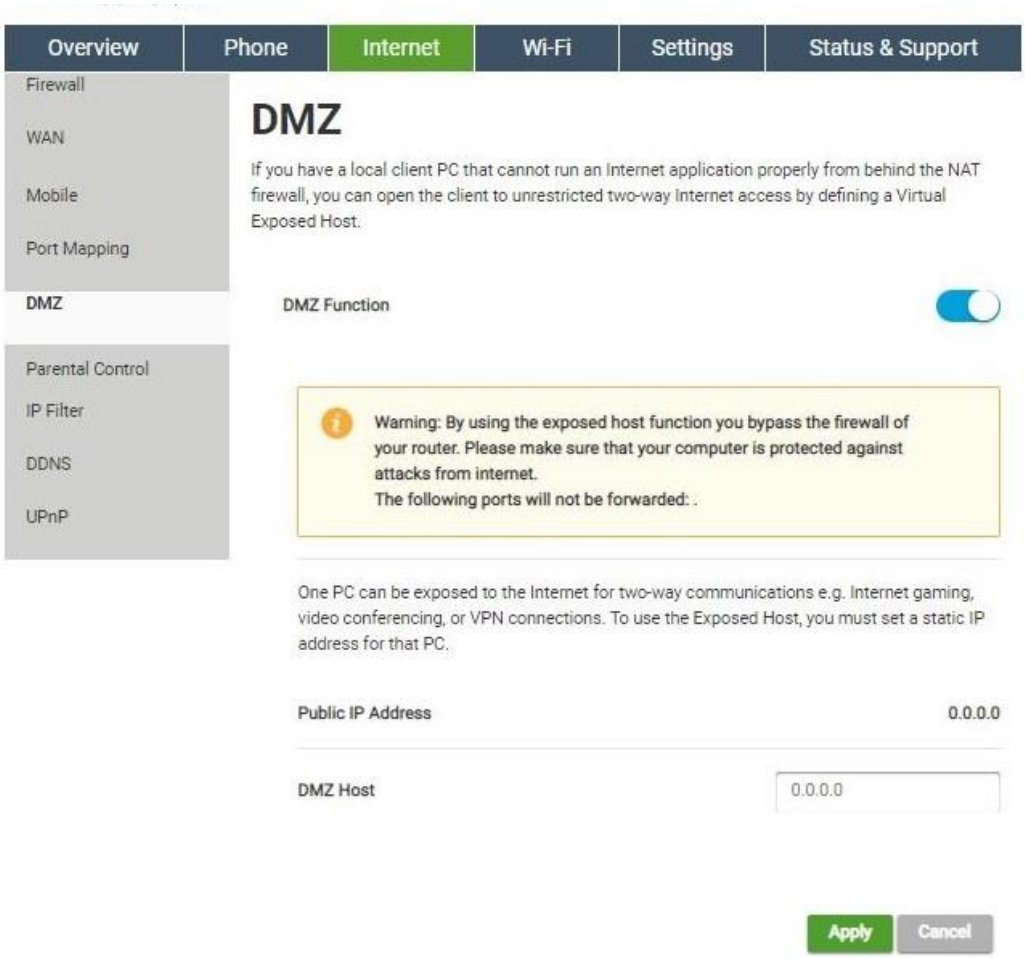
Table 5-4 Parameters for Port Mapping

Parameter	Description
Service	Name of the service. It cannot be empty.
Protocol	Select the desired protocol from the list. Default: TCP
Device	Choose the device from the list.
LAN IP	IP address of the LAN host.
Public Port Range	Port range that triggers port mapping, that is, layer-4 port number of the packet. This parameter cannot be empty
LAN Port	Port number range of the LAN-side host.

5.5 DMZ

This feature, if enabled, allows the DMZ computer on your LAN to be exposed to all
users on the Internet.

Figure 5-7 DMZ



1. Click on **DMZ**.
2. Enable it if you want to use this feature.
3. Enter the IP address of the DMZ host.
4. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

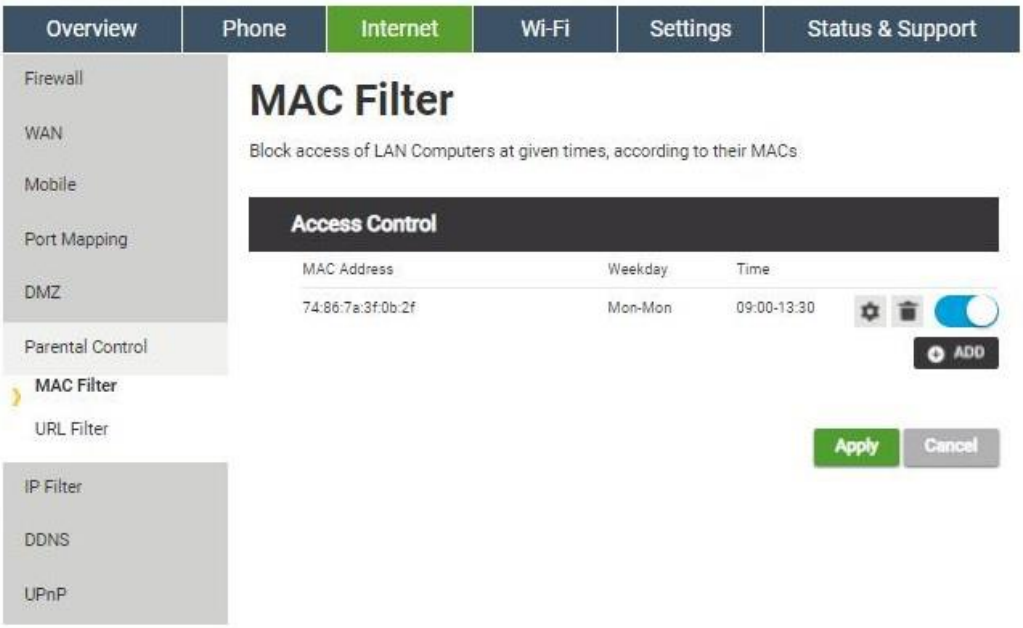
5.6 Parental Control

This feature limits the websites and services your kids can access from any device on your home network. For this reason, it offers an easy way to keep your kids away from sensitive content without installing parental control software on every one of their devices.

5.6.1MAC Filter

MAC filtering is a process that allows you to define a list of devices and only allow those devices on your Wi-Fi network for a given time.

Figure 5-8 MAC Filter

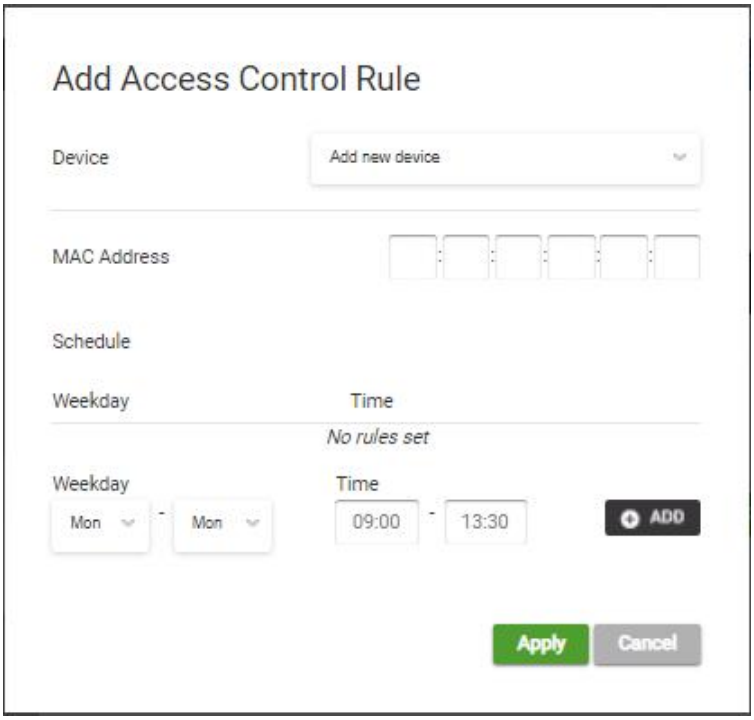


1. Click on **Parental Control**.
2. Use / to modify/delete the entry.
3. Enable or disable the rule if required.
4. Click **Add** to create the rule for access control.
5. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

5.6.1.1 Add Access Control Rule

Use this screen to add the new rule for access control. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Figure 5-9 Access Control Rule



1. Configure the following parameters.

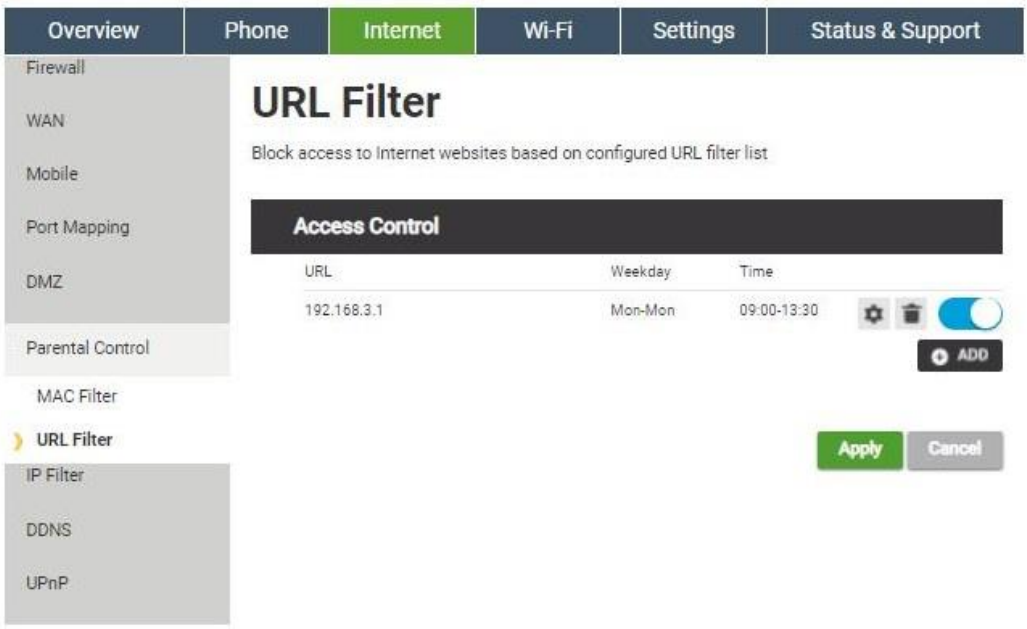
Table 5-5 Parameters for Access Control Rule

Parameter	Description
Device	Name of the service. It cannot be empty.
MAC Address	Enter the MAC address for the device.
Schedule	Define the weekday and time frame, for which the internet connection is allowed.
Add	Click the button to add new rules.

5.6.2 URL Filter

URL filtering can be used to restrict users from accessing unauthorized websites and web applications.

Figure 5-10 URL Filter

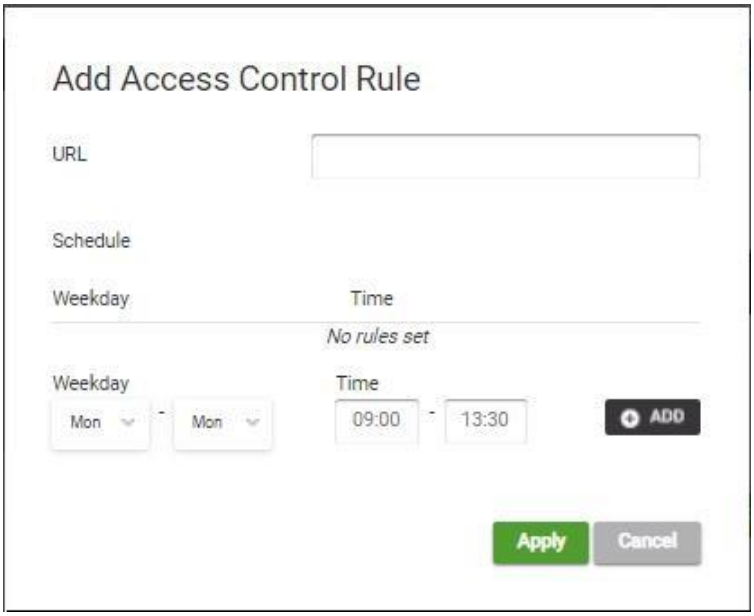


1. Click on **URL Filter**.
2. Use / to modify/delete the entry.
3. Enable or disable the rule if required.
4. Click **Add** to create the rule for access control.
5. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

5.6.2.1 Add Access Control Rule

Use this screen to add the new rule for access control. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Figure 5-11 Access Control Rule



1. Configure the following parameters.

Table 5-6 Parameters for Access Control Rule

Parameter	Description
URL	Enter the URL for the website.
Schedule	Define the weekday and time frame, for which the internet connection is allowed.
Add	Click the button to add new rules.

5.7 IP Filter

With the IP Filter functionality, you can, for example, permit access to the Home Gateway from the Internet (WAN interface) or restrict access from the Internal network (LAN, WIFI interface) to the internet (outgoing traffic).

Figure 5-12 IP Filter

1. Click on **IP Filter**.
2. Use / to modify/delete the entry.
3. Enable or disable the rule if required.
4. Click **Add** to create the input/output rule for access control.
5. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

5.7.1 Add IP Filter

This screen can be used to add rules for IP Filter. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Figure 5-13 Add IP Filter

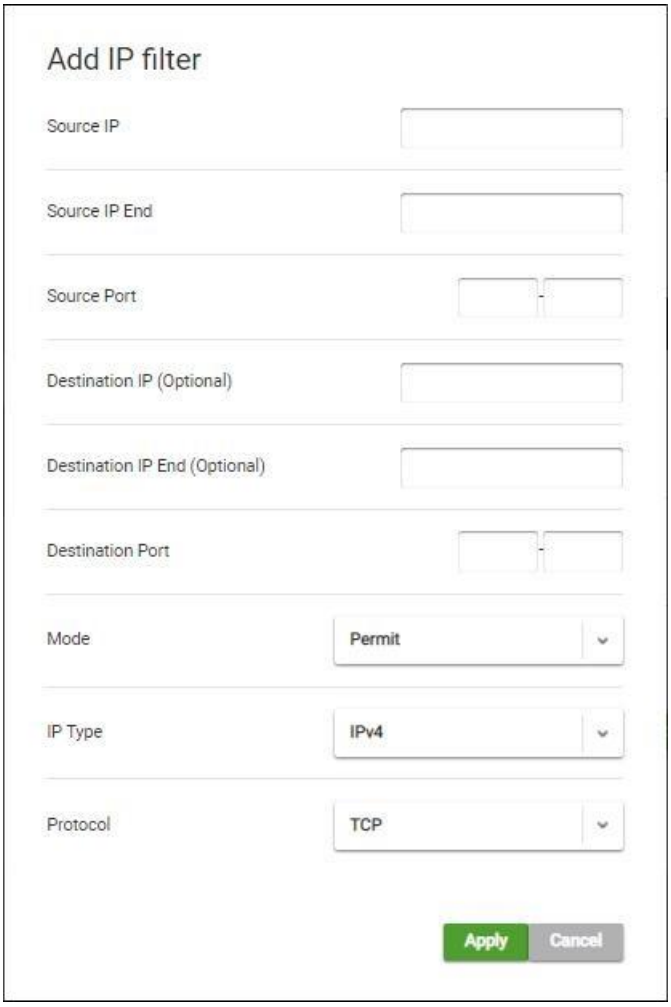


Table 5-7 Parameters for IP Filter

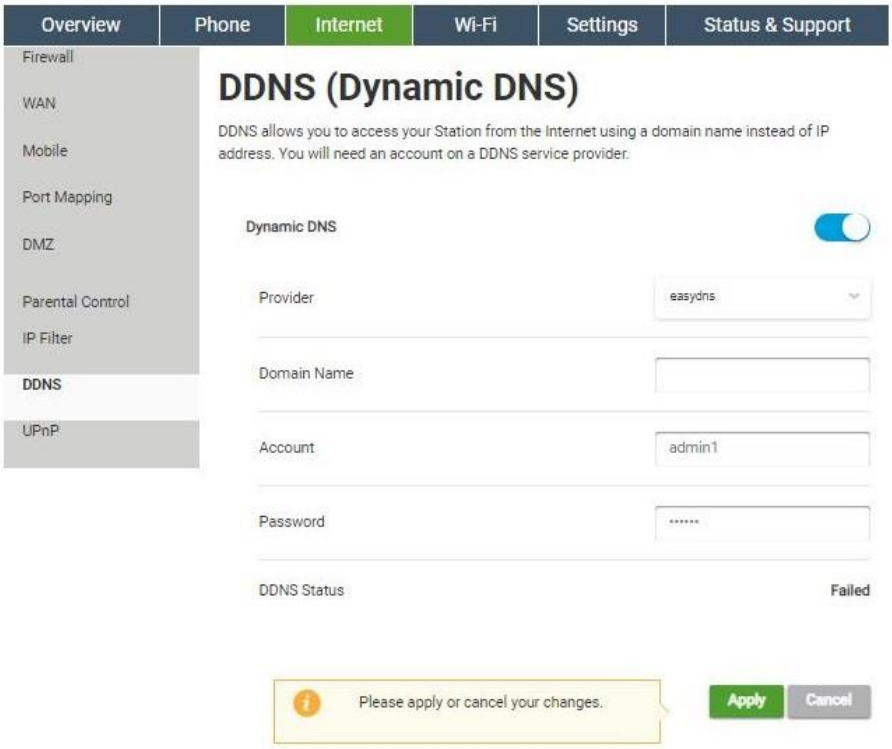
Parameter	Description
Source IP	Start IP address of the source.
Source IP End	End IP address of the source.
Source Port	Enter the start/end source port.
Destination IP	Enter the addresses for Start destination IP. Empty value is allowed.

Destination IP End	Enter the addresses for End destination IP. Empty value is allowed.
Destination Port	Enter the values for Start/End destination port. Empty value is allowed.
Mode	Choose either **Discard** or **Permit** for the Mode.
IP Type	Select the desired option for the IP type.
Protocol	Select the protocol that is used for filter packets.

5.8 DDNS

Via a dynamic DNS (Dynamic Domain Name System) you can assign an individua
l
fixed domain to your Speedport Plus 2
on the internet, even if it does not have a fixed IP
address.
The fixed (static) name of the domain will be dynamically forwarded to the current
IP
address. With this feature enabled, your home network is reachable from external
devices.

Figure 5-14 DDNS



1. Click on **DDNS**.
2. Configure the following parameters (Table 5-8).
3. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Table 5-8 Parameters for DDNS

Parameter	Description
DDNS	Enable or Disable the DDNS function.
Provider	Select the provider from the list.
Domain Name	Enter the domain name in the field.

Account	Enter the account name for the DDNS server.
Password	Enter the password for the DDNS server.

5.9 UPnP

You can configure UPnP so that the device can dynamically add to a network to obtain
an IP address, announce its functions, and know the functions of other devices.

Figure 5-15 UPnP

1. Click on **UPnP**.
2. Enable or Disable the UPnP function.
3. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Chapter 6 Wi-Fi Menu

The Wireless home network or Wi-Fi consists of a number of devices, which are connected via radio wave. It enables the Wireless connection of your notebook, your printer or other Wi-Fi capable devices with your Speedport Plus 2.
You have two frequency bands available.

6.1 General settings

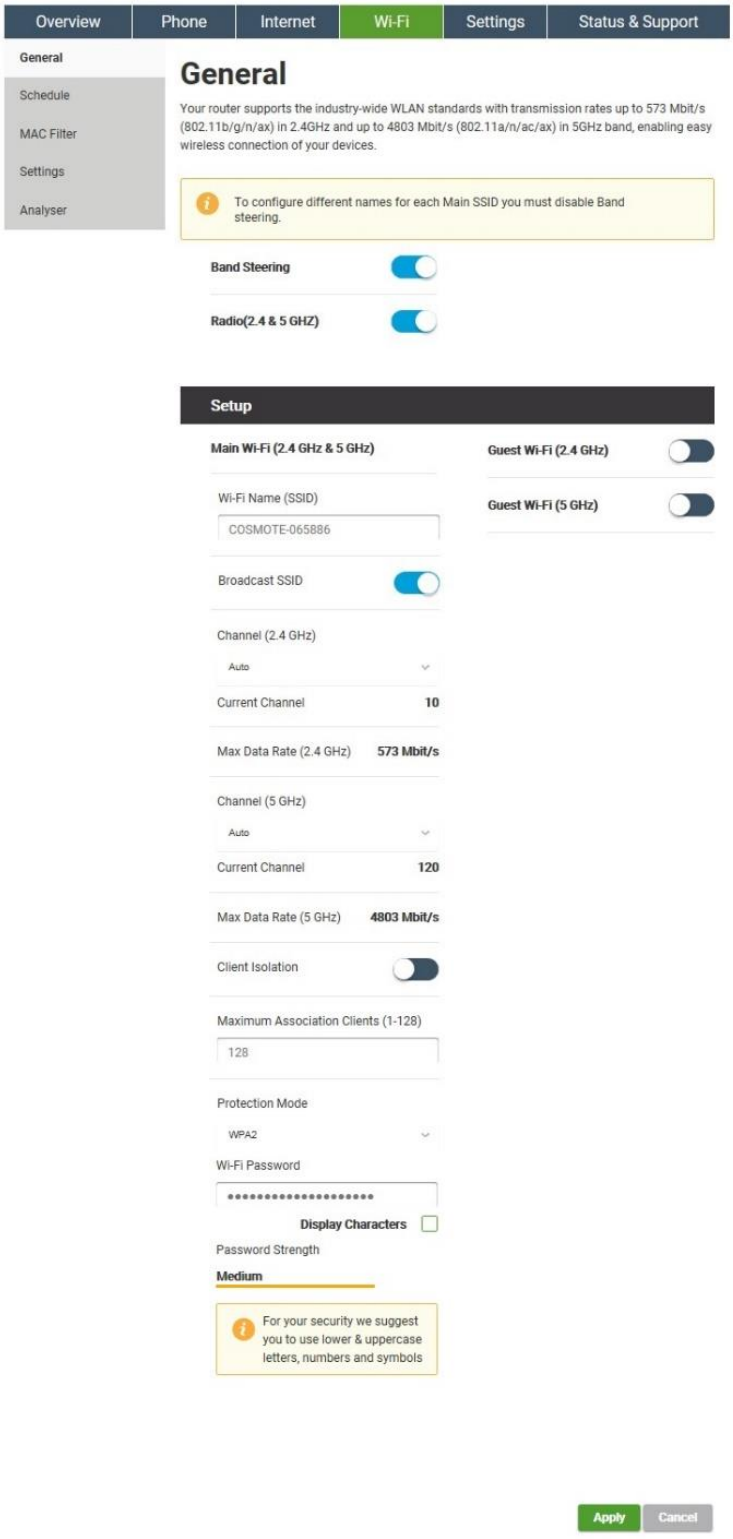
Band steering is a technology that detects whether or not the wireless client is dual-band capable, and if it is, it will push the client to connect to the less congested 5GHz network. The Band steering is enabled by default. Different settings will be displayed in the screen if enabling or disabling the different band option.
Suggestion: By pressing the **Wi-Fi** button on the front side of your Speedport Plus 2, both frequency bands will be activated or deactivated at the same time.

6.1.1 SSID Settings

The Wi-Fi name, also called SSID (Service Set Identifier) helps to distinguish between Wireless home networks in the same location. The **Wi-Fi name** must be known for every device that is connected to the Wi-Fi.

Notice: The basic settings for the Wi-Fi name (SSID) and the encryption can be found on the label of your Speedport Plus 2.

Figure 6-1 General Settings (2.4 GHZ/5GHZ)



1. Click on **General**.
2. Enable Band Steering. The Band steering is enabled by default. In order to use this feature, SSIDs of 2.4GHz and 5GHz bands must be the same, and Band Steering must be enabled in both SSIDs.
3. Enable Radio (2.4 & 5 GHZ).
4. Configure the following parameters (Table 6-1):
5. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Table 6-1 Parameters for Setup Settings

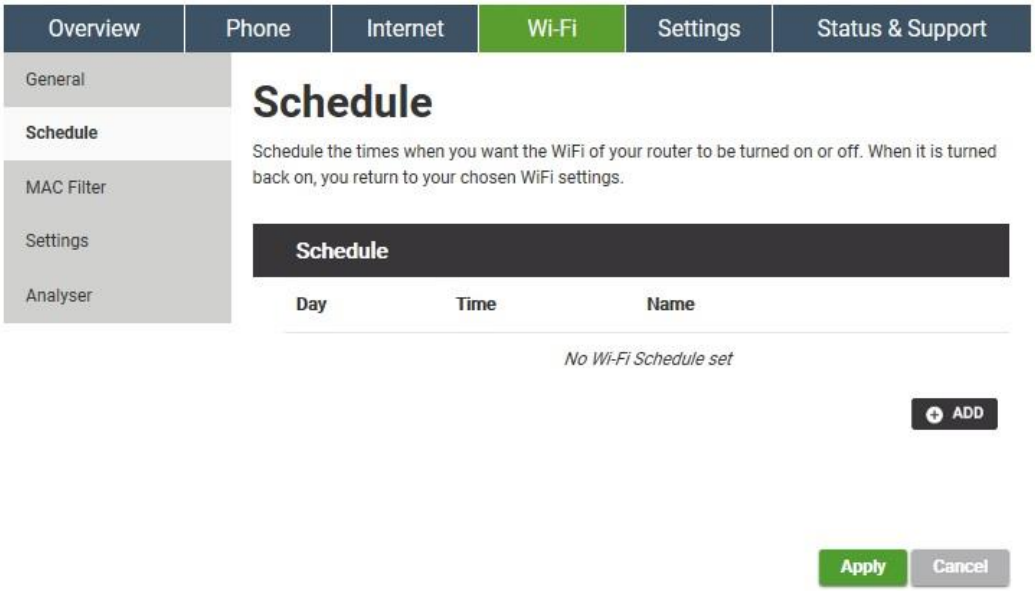
Parameter	Description
Wi-Fi Name	Enter the SSID. We strongly suggest changing the SSID to one of your preference.
Guest Wi-Fi (2.4 /5 GHz)	Enable it if you want to use guest WiFi function.
Broadcast SSID	If enabled, your network is visible and easily
Channel	Choose the desired option for the channel.
Client Isolation	If enabled, clients attached to this SSID cannot communicate with each other.
Maximum Association Clients	2.4 GHZ: The range is from 1 to 128. 5 GHZ: The range is from 1 to 64.
Protection Mode	There are four types (default is WPA2): □ WPA2 □ WPA/WPA2 □ WPA3 □ WPA2/WPA3
Wi-Fi Password	Enter the password in each device that you want to connect to the Wi-Fi.

6.2 Schedule

With the timer of the Wireless home network, you have the possibility to administer your Wi-Fi with timer activation. The option **always switched on** on the Wi-Fi, stays active and available all the time and it is the default one. You also have the possibility to activate Wi-Fi in a defined time window or on a certain weekday.

Notice: Active Wi-Fi connections will, after time window expires, not be interrupted but cannot be reconfigured outside of the time window.

Figure 6-2 Schedule



1. Click on **Schedule**.
2. Use / to modify/delete the entry.
3. Click **Add** to create new schedule.
4. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

6.2.1 Add a new Wi-Fi Schedule

Add a new Wi-Fi schedule in this screen. When you have finished configuring your settings, confirm the changes by clicking the **Save** button. Click the **Cancel** button if you do not want to save your changes.

Figure 6-3 Add a Wi-Fi Schedule

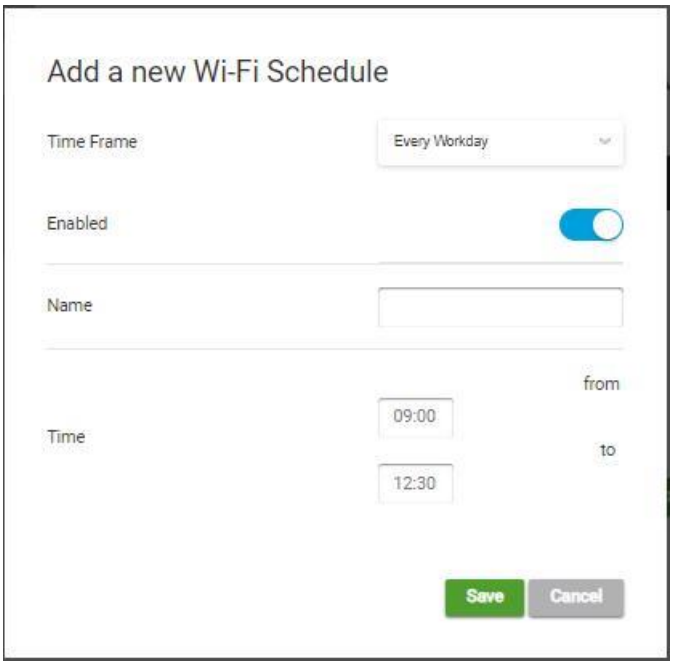


Table 6-2 Wi-Fi Schedule Parameters

Parameter	Description
Time Frame	Define the time frame window (Every Day, Every Workday, All Weekend or User Specified Range), in which Wi-Fi is supposed to be available.
Enable	Enable/Disable the option.
Name	Enter the name for the schedule.
Time	Set the time range for the schedule.

6.3 MAC Filter

To make your wireless network more secure, you can specify which devices are allowed to connect. The devices are identified by their MAC address. You can manage up to 32 devices.

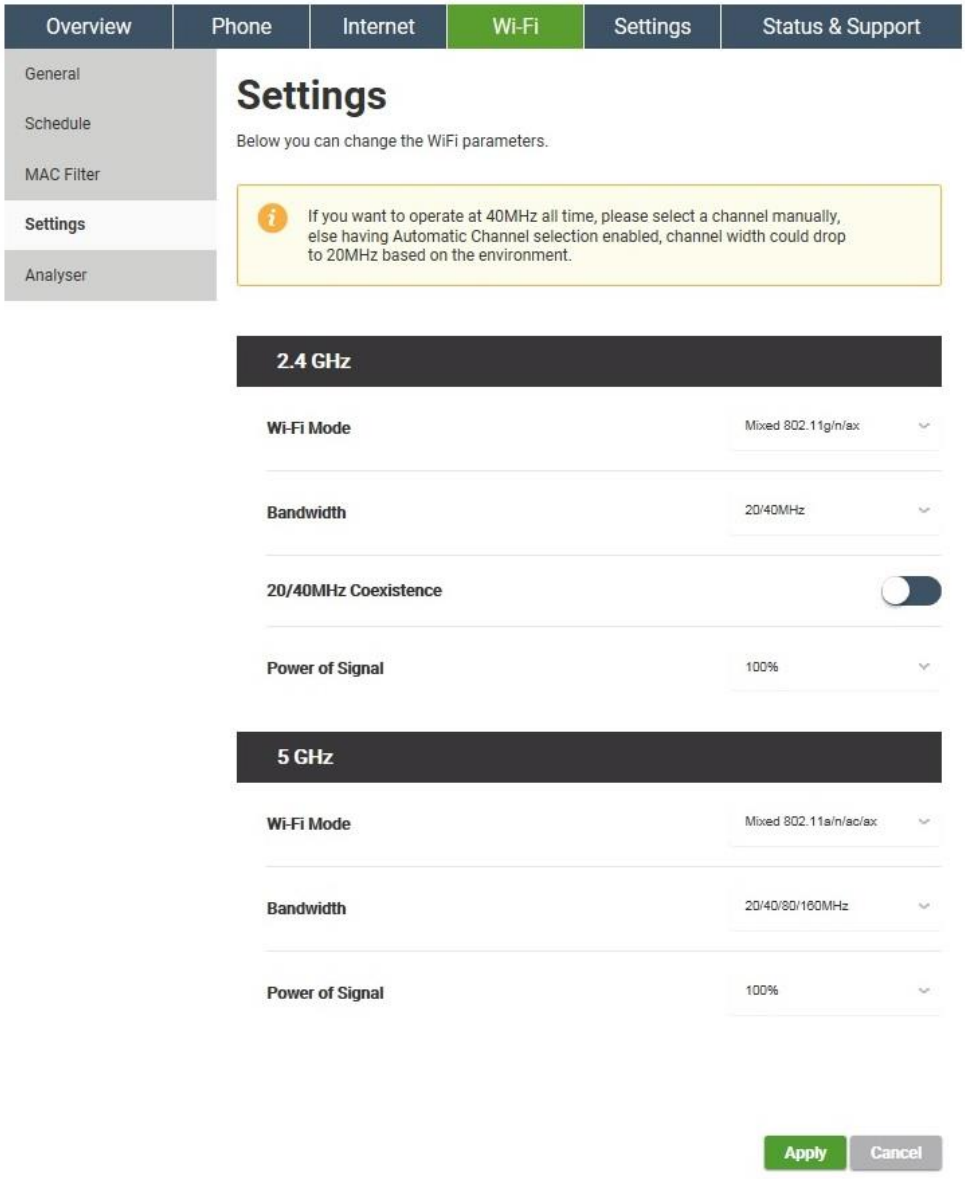
Figure 6-4 MAC Filter

1. Click on **MAC Filter**.
2. Enable it if you want to use MAC filtering function.
3. Choose **Allow** or **Deny** the access to the listed devices
4. Click **Add**.
5. Enter the name and MAC address of the device.
6. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

6.4 Settings

Configure the parameters for Wi-Fi settings.

Figure 6-5 Settings



1. Click on **Settings**.
2. Configure the following parameters (Table 6-3).
3. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

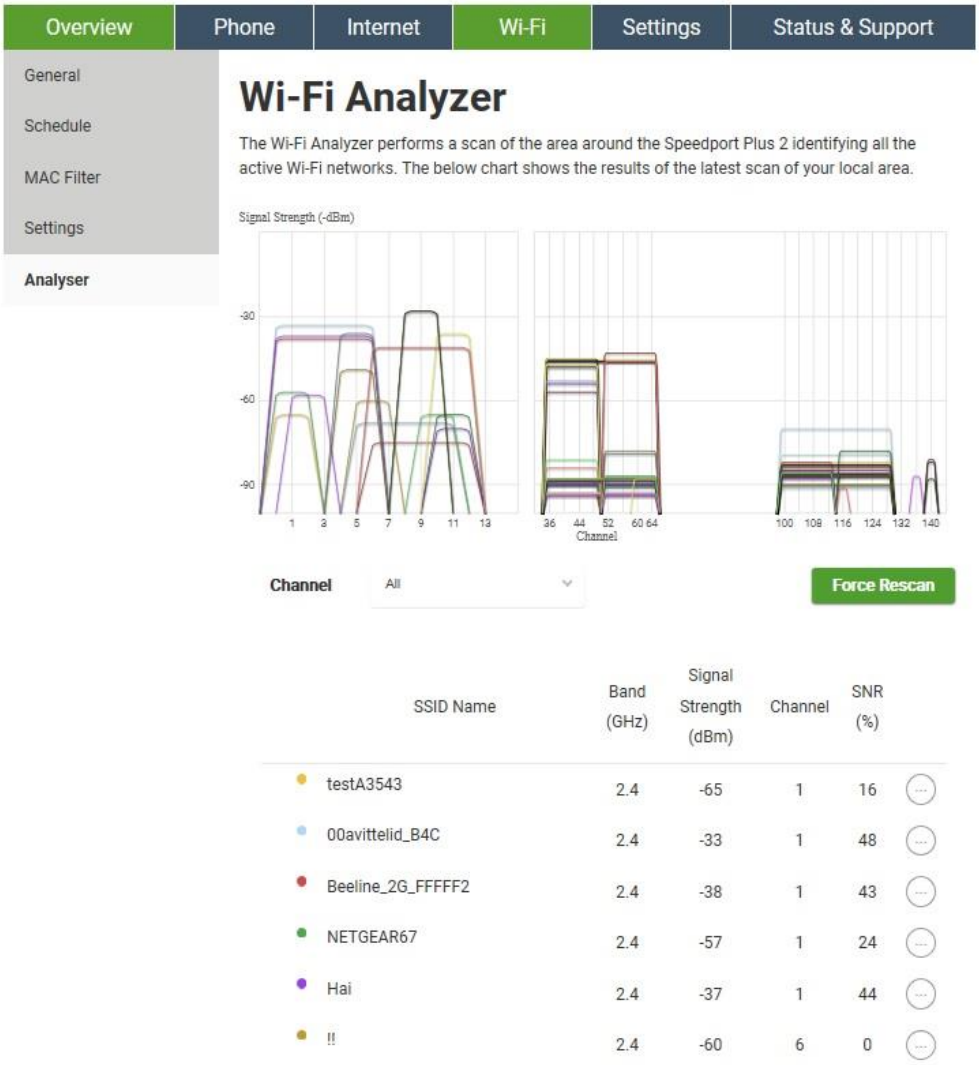
Table 6-3 Settings Parameters

Parameter	Description
Wi-Fi Mode	There are three modes for 2.4GHz: □ 802.11b/g □ 802.11g/n □ 802.11g/n/ax (default) There are three modes for 5GHz: □ 802.11a/n □ 802.11a/n/ac □ 802.11a/n/ac/ax (default)
Bandwidth	There are two options for 2.4GHz: □ 20MHz □ 20/40MHz There are four options for 5GHz: □ 20MHz □ 20/40MHz □20/40/80MHz □20/40/80/160MHz
20/40MHz	Enable or disable this option as required.
Power of Signal	Select the signal power from the list.

6.5 Analyser

This screen provides useful information about wireless signals around your area. The scanner supports 2.4 GHz and 5 GHz WiFi networks.

Figure 6-6 Analyser



1. Click on **Analyser**.
2. Click the **Force Rescan** button to scan the WiFi networks around the device.

Chapter 7 Telephony

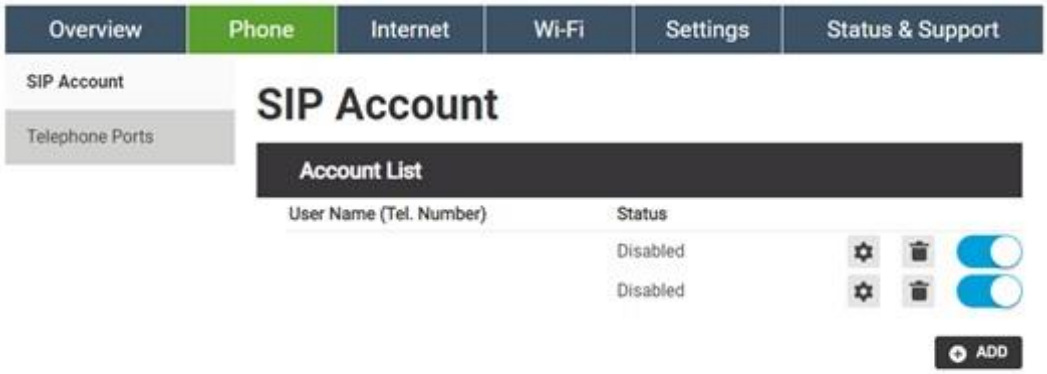
Speedport Plus 2 supports
Broadband telephony with up to 2 analogue telephones.

Notice: Telephony is only available with Internet connectivity. This feature is not supported when there is a power blackout.

7.1 SIP Account

SIP accounts allow users to make voice calls over the Internet using VoIP technology. Configure the settings of SIP accounts.

Figure 7-1 SIP Account



1. Click on **SIP Account**.
2. The Account list displays the current existing accounts.
3. Click **Add/Edit/Delete** button to configure accounts if needed.

Configure the following parameters:

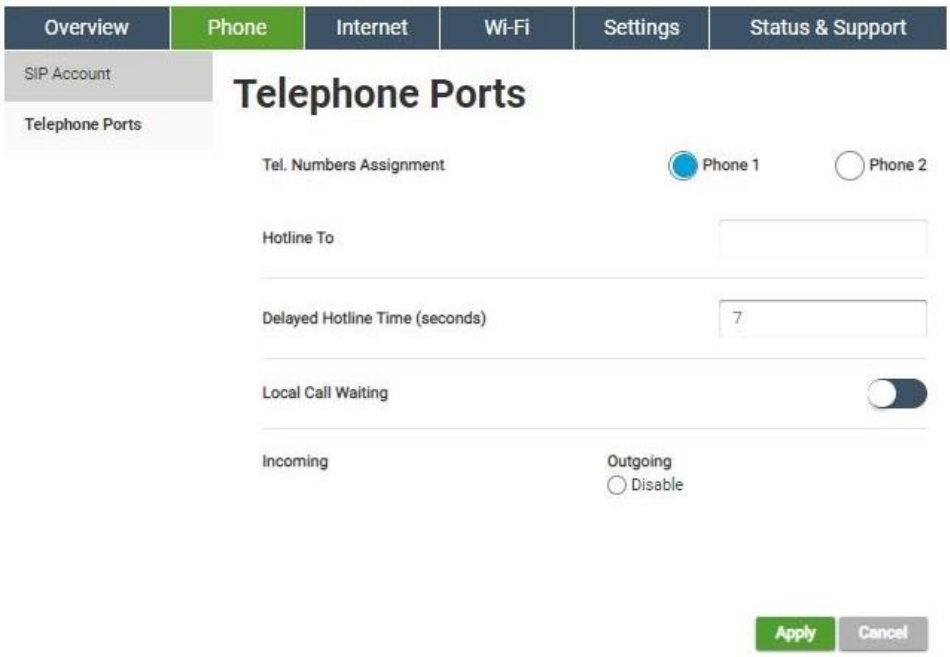
Table 7-1 SIP Account Parameters

Parameter	Description
User Name	Insert the 10 digit telephone number (SIP account) provided by the operator, in the form of
Password	Insert the SIP account password provided by the
Authentication Name	Enter the 10 digit telephone number (SIP account) provided by the operator, in the form of +30xxxxxxxxx

7.2 Telephony Ports

Assign the sip accounts to the telephony ports and configure specific phone port settings.

Figure 7-2 Telephony Ports



1. Configure the following parameters (Table 7-2).
2. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Table 7-2 Telephone Ports

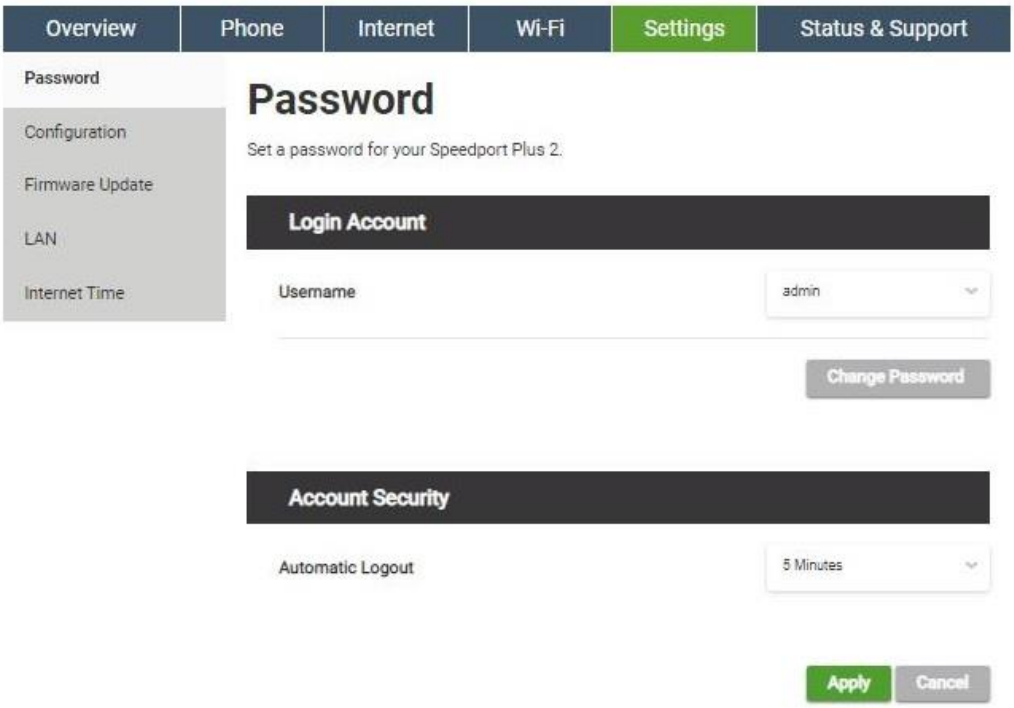
Parameter	Description
Tel Numbers Assignment	Enable Phone 1 or Phone 2.
Hotline To	Enter the number to be dialed.
Delayed Hotline	Enter the number of seconds for waiting.
Local Call Waiting	Enable or Disable the Local Call Waiting.
Incoming	Enable or Disable the outgoing calls.

Chapter 8 Settings

8.1 Password

The configuration program is protected by a device password. The default device password can be found on the label of your Speedport Plus 2.

Figure 8-1 Password



1. Click on **Password**.
2. Select the user admin.
3. Click **Change Password** button.
4. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Configure the following parameters.

Table 8-1 Password Parameters

Parameter	Description
Password	Enter the user self-defined password
Re-enter Password	Re-enter the password.
Password Strength	The strength of the new password will be displayed.

Notice: The personal password should consist at least 8 permitted characters (uppercase letters, lowercase letters, numbers and special characters) and more than one type of characters must be included.

4. Select the desired automatic logout time from the list.
5. Once you have adapted the settings, confirm the changes by clicking the **Apply** button. If you do not want to save changes, click the **Cancel** button.

Forgot device password

If you have forgotten your personal device password and cannot access the configuration
of your Speedport Plus 2, you have to reset your Speedport Plus 2 to factory default settings.

1. Push the reset button for at least five seconds with a thin item on the backside of
   your Speedport Plus 2.

   Notice: All the previous user-configured settings will be lost!
2. Now use the default device password on the label of your Speedport Plus 2 to log in.

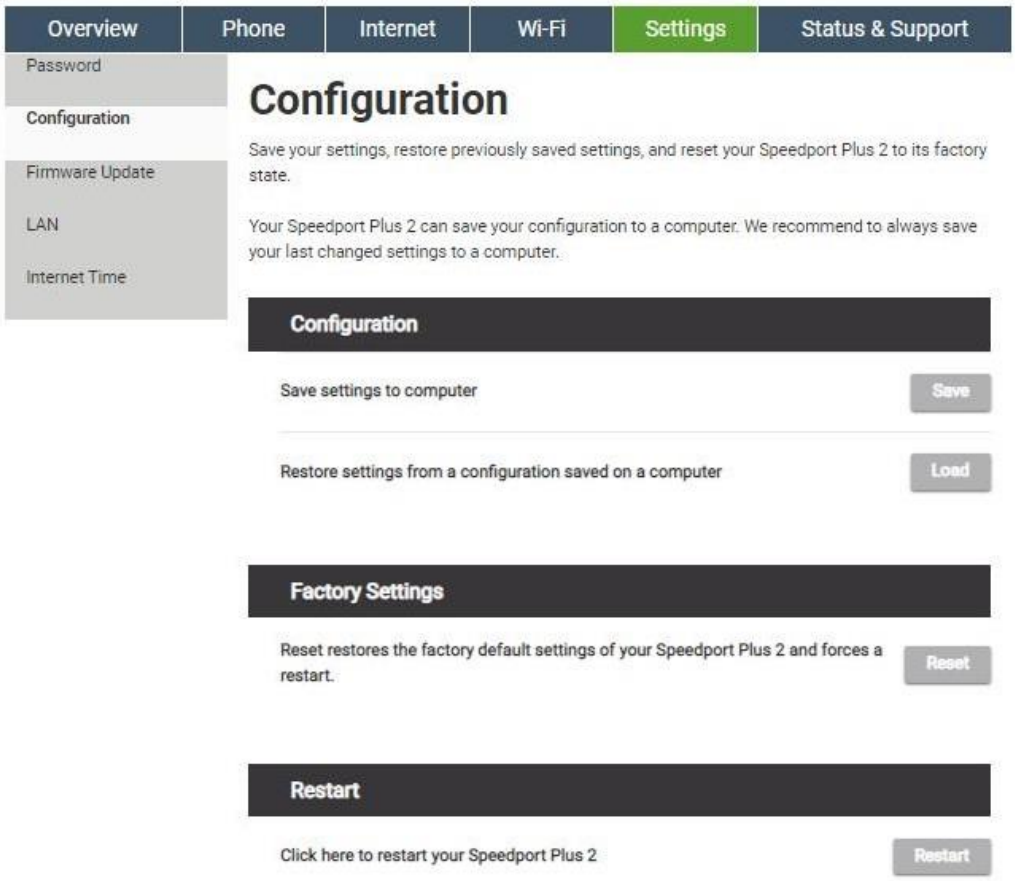
8.2 Configuration

Once you have configured your Speedport Plus 2 according to your needs, it makes sense to secure this configuration. If all these settings are accidently lost or erased, you can always retrieve this backup. You can also load your backup into the Speedport Plus 2, if extensive configuration changes have resulted in unexpected malfunctioning of your Speedport Plus 2.

8.2.1 Save settings

You can save the settings of your Speedport Plus 2 on a computer in order to update your Speedport Plus 2 to the last backup.

Figure 8-2 Configuration



1. Click on **Configuration**.
2. Click on **Save**.
3. Enter the required data for password in the sub screen to protect the configuration file. Click **Save** button.

.2.2 Restore settings

If you have backed up the settings of your Speedport Plus 2 on a computer before, you can update your Speedport Plus 2 to the last backup file.

1. Click on **Configuration**.
2. Click the **Load** button.
3. Click **OK**.
4. Choose the storage location where the backup exists.

Notice: After successfully restoring your settings, your Speedport Plus 2 will be restarted automatically. The process will be ended after

180seconds.

8.2.3 Factory settings.

Reset all settings and reconfigure Speedport Plus 2 manually.

You can always reset the Speedport Plus 2 to the factory settings if needed. Please back up your data before restoring your device to factory settings.

1. Click on **Configuration.**
2. Click the **Reset** button.
3. Click the **Apply** button. Your Speedport Plus 2 will be restarted automatically.

8.2.4 Restart Speedport Plus 2

If your Speedport Plus 2 does not function properly due to technical reasons, you can restart it.

1. Click on **Configuration**.
2. Click on the **Restart** button.

Notice: Your Speedport Plus 2 will be restarted now. You cannot configure settings during the process. The restart will be finished after 70 seconds.

8.3 Firmware update

You can update the firmware here when you have a new version.

Never disconnect your Speedport Plus 2 from the power source and from the broadband during firmware update. This may cause a loss of data, which may result malfunctioning of the Speedport Plus 2.

Figure 8-3 Firmware update

1. Click on **Firmware update**.
2. It displays the current version number.
3. Click the **Select File** button and choose the desired update file.
4. The device will be restarted automatically after installation.

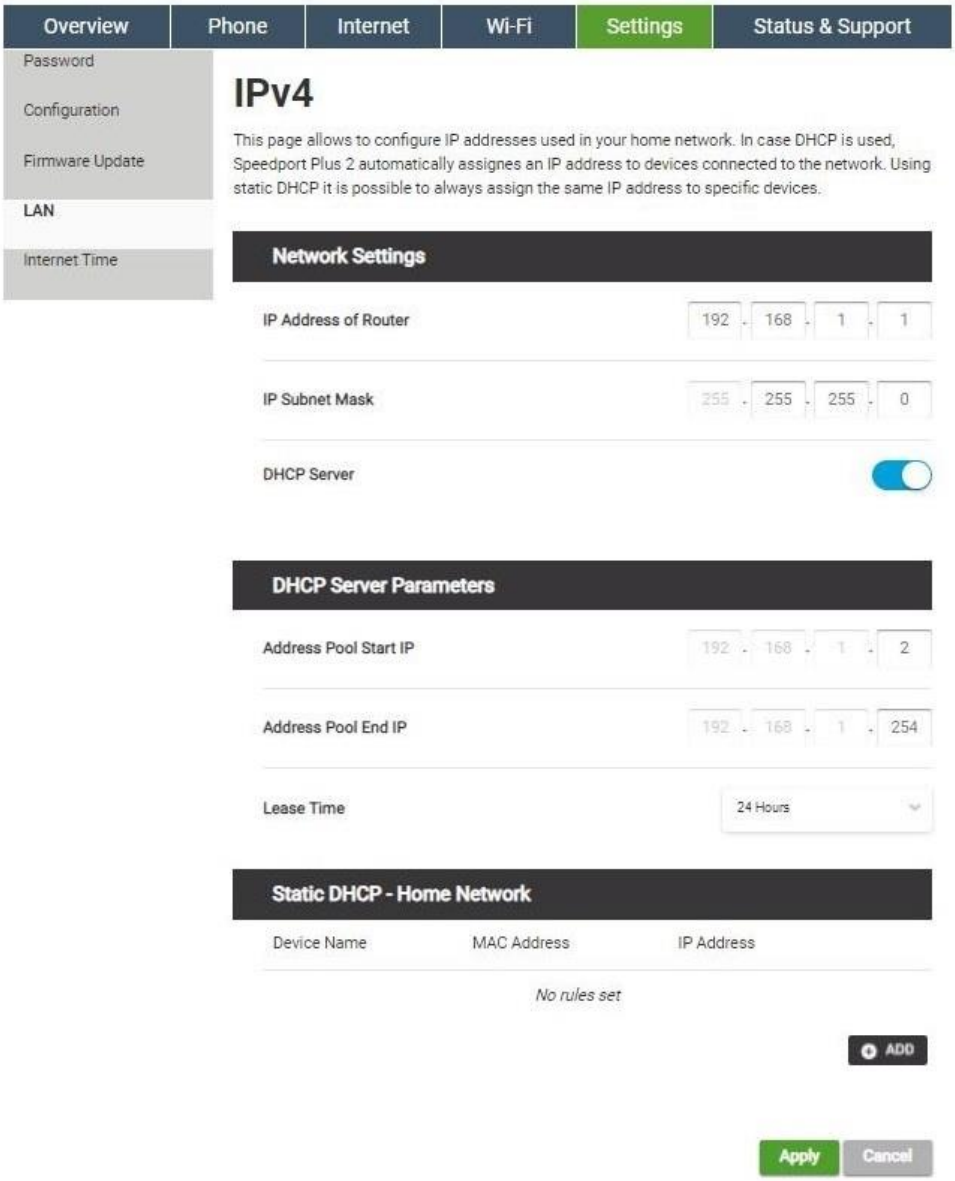
8.4 LAN Settings

Configure the network settings for the Speedport Plus 2 in this screen.

8.4.1 Network Settings

You can configure the IP address settings in this screen.

Figure 8-4 Network Settings



1. Click on **LAN**.
2. Configure the following parameters (table 8-2).

Table 8-2 IPv4/v6 Parameters

Parameter	Description
Local IPv4 address	IPv4 address of the router.
Subnet Mask	Subnet mask for the IP address.

DHCP Server	Enable or Disable the DHCP Server.

3. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

8.4.2 DHCP Server Parameters

1. Click on **LAN**.
2. Configure the following parameters (Table 8-3) if the DHCP Server is enabled.
3. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Table 8-3 DHCP Parameters

Parameter	Description
Address Poor Start IP	Start IP address of the DHCP Server.
Address Poor End IP	End IP address of the DHCP Server.
Lease Time	Select the time period of the DHCP Server.

8.4.3 Static DHCP – Home Network

1. Click on **LAN**.
2. Click **Add** button
3. Configure the following parameters (Table 8-4) if the DHCP Server is enabled.

Table 8-4 Static DHCP Parameters

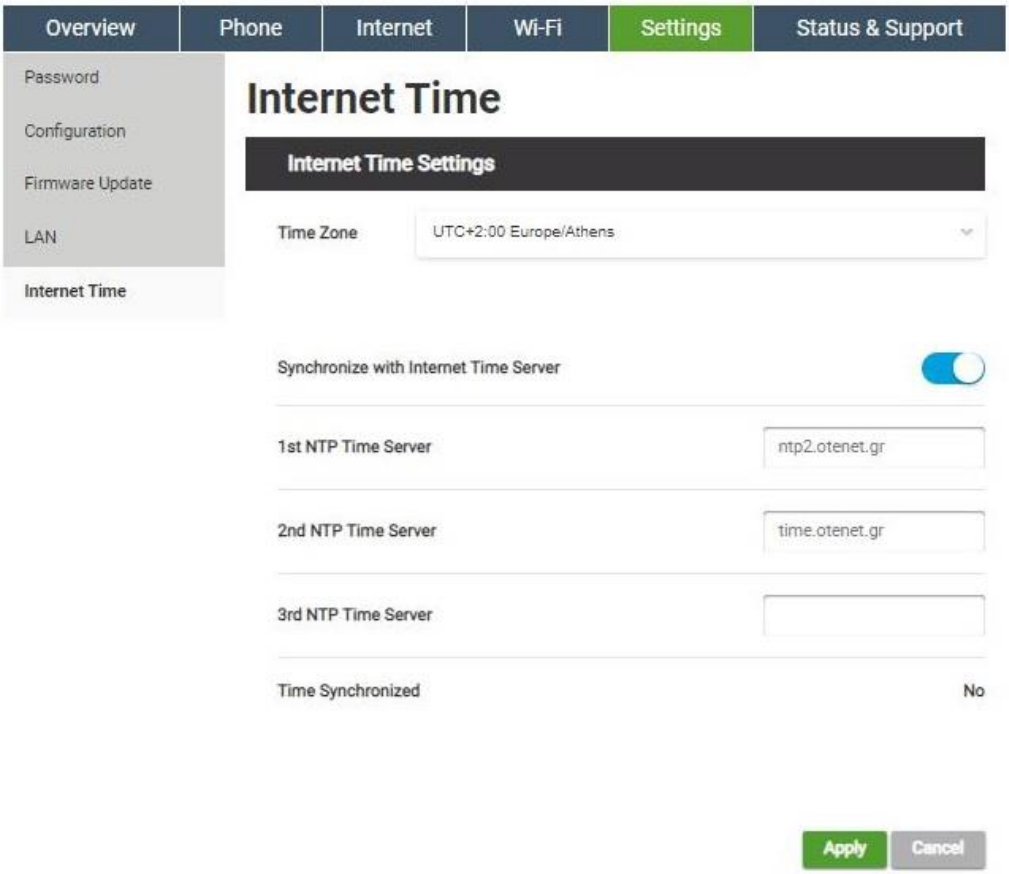
Parameter	Description
Device Name	Name of the Static DHCP Server.
MAC Address	MAC address of the Static DHCP Server.
IP Address	IP address of the Static DHCP Server.

4. Click **Add** button to save the Static DHCP or **Cancel** button if you do not want to save your changes.
5. Use / button to modify/delete the existing entry in the table.
6. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes

8.5 Internet Time

Configure the settings for the
Internet Time Server. The device will contact an Internet
Time Server at regular intervals and update the time.

Figure 8-5 Internet Time



1. Configure the following parameters (Table 8-5).
2. When you have finished configuring your settings, confirm the changes by clicking the **Apply** button. Click the **Cancel** button if you do not want to save your changes.

Table 8-5 Internet Time

Parameter	Description
Time Zone	Choose the time zone from the list.
Synchronize with Internet Time	Enable the option if you want to synchronize with the Internet Time Server.
1st NTP Server	Enter the primary Internet server address in the field
2nd/3rd NTP Server	Enter the secondary/third Internet sever addresses in the fields if desired.

Reset to the factory settings (Reset)

Your device contains private data, which could be harmful, once they are public. These data may be plug recognition supplied by your provider and your personal passwo rd.

With these data strangers can surf the internet, check e-mails and carry out other security sensitive processes at your expenses. That is why you have to carry out a reset before you give your device for example for reparation or maintenance to thi rd
parties.

The reset to the factory
settings is also necessary, if you have forgotten your personal
password and you have no more access to the configuration program. In this case you have to completely reconfigure your device as follows:

1. Your Speedport Plus 2 has to be connected to the power source.
2. Use a thin pointed object to press for at least five seconds into the opening o n
   the backside of your Speedport Plus 2 labeled with **Reset**.
3. Wait 180 seconds, before disconnecting your Speedport Plus
   2 from the power source.

Now all data are erased and replaced by the factory status data. Now you can unhesitatingly hand over your Speedport Plus 2 to someone else.
If you want to check whether all data have been erased, log in with the device password of the type label of your Speedport Plus 2.

Notice: Please note that after a reset to the factory settings the Wi-Fi name (SSID) and the Wi-Fi key are reset to the default settings. These are the data, which are entered on the label of your Speedport Plus 2.

Troubleshooting

Within the user interface of the Speedport Plus 2 you can find more information for troubleshooting.
If your Speedport Plus 2
does not seem to work properly, please try to solve the problem
first with the following troubleshooting table.

General problems or problems with the local net.

Table A-1 General problems

Problem	Reason	Solution
There is no LEDs lit on the Speedport Plus 2.	The power source to the Speedport Plus 2 is disconnected.	Check the used plug. Use a device for that of which you are sure, that it functions.
After a firmware update the device malfunctions.	During a firmware update the connections to the Speedport Plus 2 were interrupted.	Reset your Speedport Plus 2 To the factory settings. If that does not solve the problem, please contact the technical support of the OTE S.A.
A wireless connection to the home network by the Speedport Plus 2 can not be established.	The Wi-Fi function on the Speedport Plus 2 is deactivated.	Activate the Wi-Fi function on the Speedport Plus 2 by pressing the key Wi-Fi.
	The encryption on the Speed port Plus 2 does not correspond to the encryption on the end devices.	Set the same encryption on the Speedport Plus 2 and at the end devices.

Problems with telephony

Table A-2 Dialing problems

Problem	Reason	Solution
You cannot do calls.	Voice service is not activated successfully. “Telephony” LED is off.	Check the internet connection of your Speedport Plus 2. Make sure that the Internet connection option “always online” is selected and “Telephony” LED is stable lit.
Voice services boot up successfully but cannot make outgoing calls.	Outgoing calls are disabled.	Check the port assignment rule in the outgoing calls GUI.

Problems with login to the graphical user interface

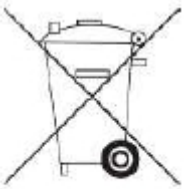
Table A-3 Configuration

Problem	Reason	Solution
The page could not be found.	You have entered the wrong IP address.	Check the IP address.
The graphical user interface is not accessible anymore.		Reset to the factory settings.

If the problem still remains, our technical support can help you. If you suspect an interference of your connection, please contact the customer support of OTE.

COSMOTE Customer Support 13888

Disposal of old devices



Once your Speedport Plus 2 is disused, bring the old device to a collecting point of your local public waste authorities (i.e. junk dealer).

The symbol on the left indicates that the device is to be disposed of separately from the household trash.

According to the laws of disposal for electrical and electronic equipment owners of old devices are obliged to have old electrical and electronical devices disposed of in separated waste. Please help and contribute to the environmental protection by not disposing of the old device in the household trash.

Note for the recycler: The date of production or bringing into circulation is stated on the type label in accordance with DIN EN 60062, No. 5.

Your device contains private data, which could harm you if they become public. Please reset it to factory defaults before disposing it.

The Speedport Plus 2 equipment is available exclusively in Greece.

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