

CPE 300

333001

Wireless Outdoor CPE



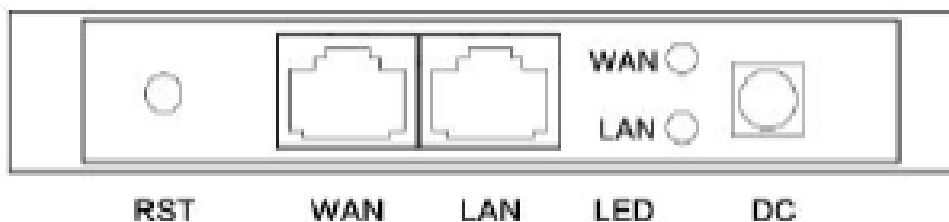
User manual



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CPE 300 Hardware



- **RESET:** Reset Button, it make AP revert to default data after press it 15 seconds.
- **WAN:** WAN Port, connect with ADSL modem or Internet mainly. It will be LAN port under Wireless AP and Wireless Repeater operation mode.
- **LAN:** LAN Port to end users.
- **LED:** LED indicator of WAN port and LAN port.
- **DC:** DC power connector.

Installation diagram

1. PoE Injector Power Supply

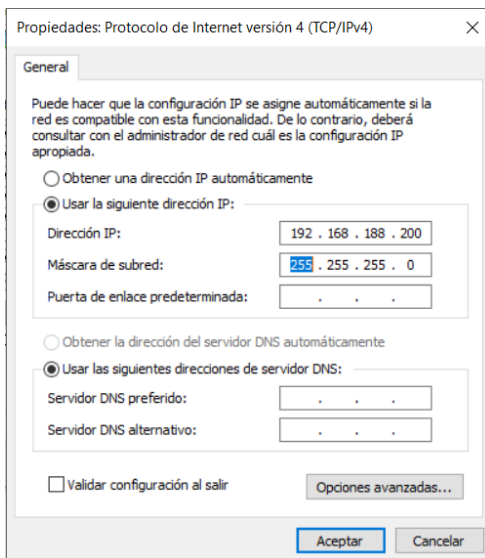


Connect to CPE 300

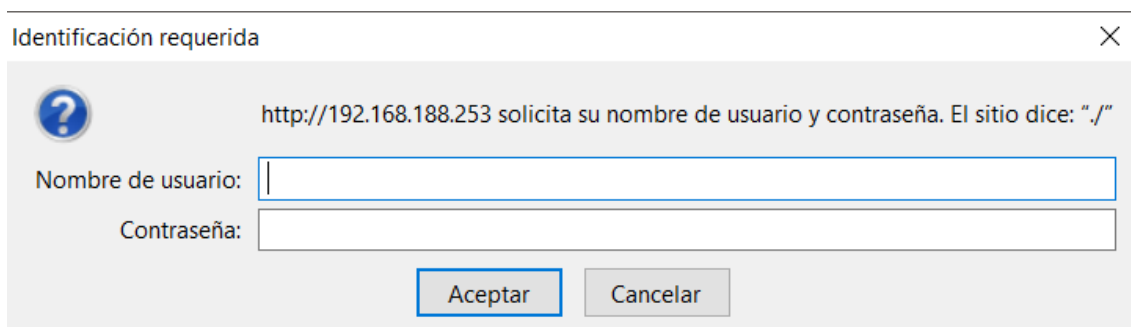
Note: The default SSID is Ek_5.8G with password 12345678

To connect to **CPE 300** please follow these steps:

1. Connect to **CPE 300** with Ethernet cable or wireless.
2. Set our Ethernet / Wireless adapter with Static IP:



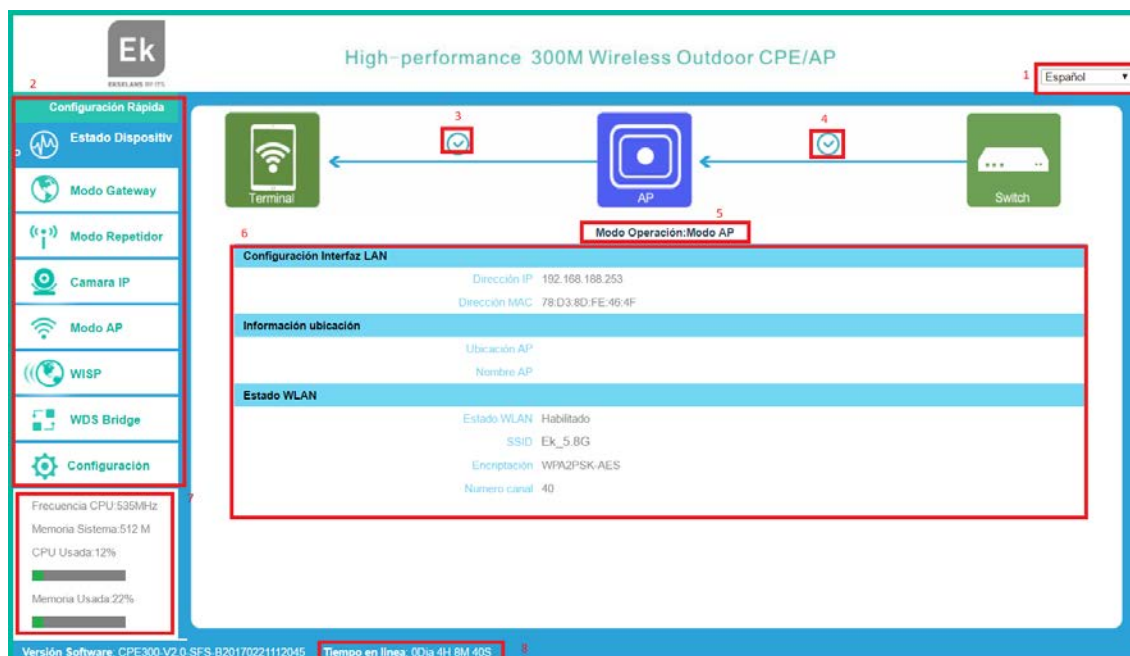
3. Open a Web browser and navigate to the URL: <http://192.168.188.253>



4. To enter use the password: **admin**

CPE 300 Web interface

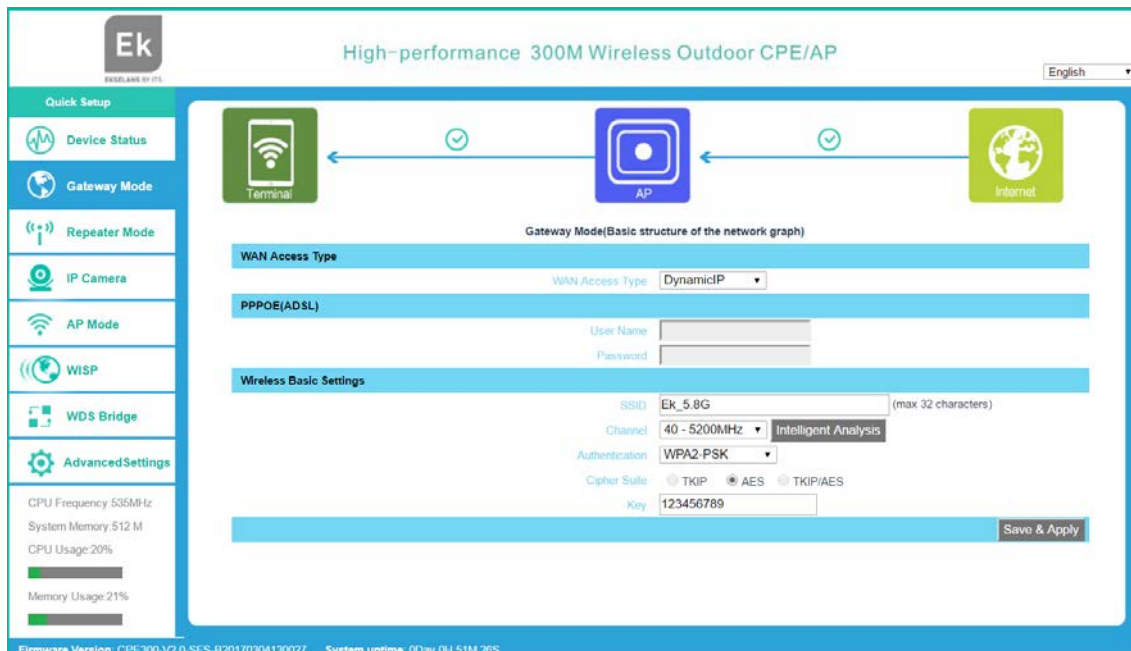
After entering, the password will appear the main interface



1. Language Selector can be English / Spanish.
2. Displays the Menu.
3. Displays if the user connection to the device is good or bad.
4. Displays if the device connection to the external network is good or bad.
5. Displays the Operational mode (AP Mode, Gateway Mode, and Repeater).
6. Display a brief information about AP, LAN status, Wireless status...
7. Displays the CPU usage and the memory.

Gateway Mode

Gateway Mode allows the CPE 300 to operate as router. By applying the changes it will switch to Gateway Mode.



- WAN Access Type: Dynamic IP / Fixed IP.
- PPPoE: Input the user name and password if PPPoE is needed.
- SSID: Name of the wireless.
- Channel: The channel that Wireless will use.
- Authentication: Select the encryption wanted for the wireless SSID.
- Cipher Suite: Select the cipher wanted for the wireless SSID.
- Key: The password for the SSID

After filling the above value as we want, we can press “Apply Changes” to switch to Gateway mode.

Repeater Mode / IP Camera

Repeater Mode / IP Camera allows the CPE 300 to connect and repeat another SSID. By applying the changes it will switch to Repeater Mode.




Pressing Scan AP will open a screen that will allow you to select the SSID you want to connect and will fill the Wireless Repeater Values.

- **SSID:** Name of the wireless.
- **Authentication:** Select the encryption wanted for the wireless SSID.
- **Cipher Suite:** Select the cipher wanted for the wireless SSID.
- **Key:** The password for the SSID

After filling the above value as we want, we can press “Apply Changes” to switch to Repeater mode.

AP Mode

AP Mode allows the CPE 300 to operate as router in bridge mode. By applying the changes it will switch to AP Mode.



High-performance 300M Wireless Outdoor CPE/AP

English

Quick Setup

- Device Status
- Gateway Mode
- Repeater Mode
- IP Camera
- AP Mode
- WISP
- WDS Bridge
- Advanced Settings

Terminal ← AP → Switch

AP Mode(Basic structure of the network graph)

Location Information

AP Location

AP Name

Wireless Basic Settings

SSID: Ek_5.8G (max 32 characters)

Channel: 40 - 5200MHz Intelligent Analysis

Authentication: WPA2-PSK

Cipher Suite: TKIP AES TKIP/AES

Key: 123456789

Save & Apply

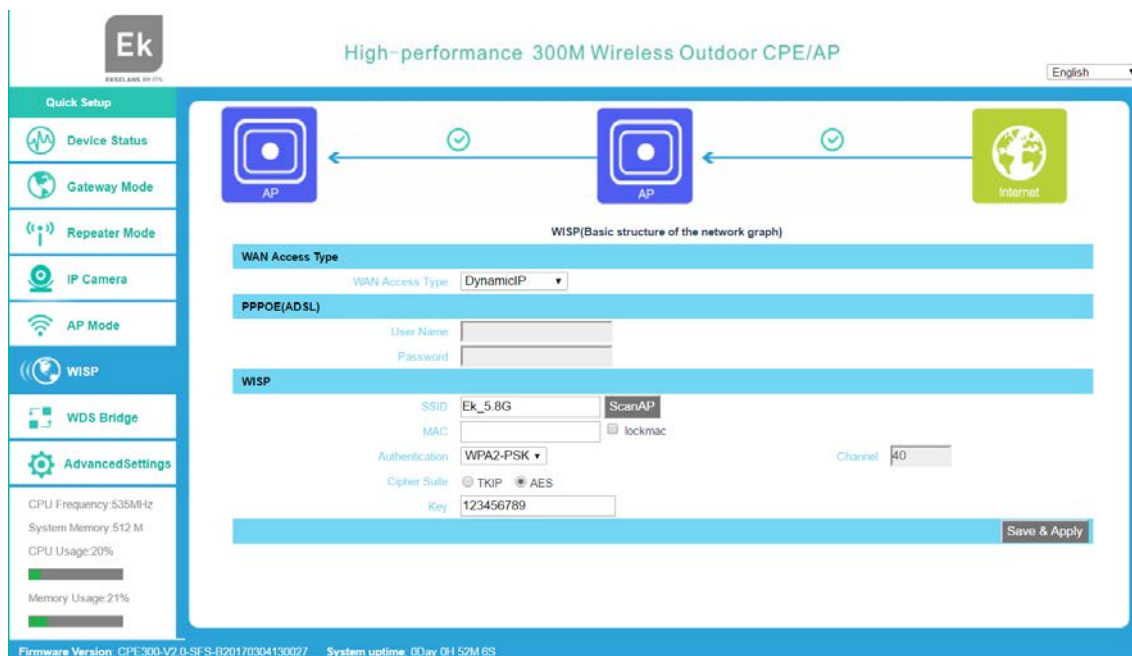
Firmware Version: CPE300-V2.0.SFS-B20170304130027 System uptime: 0Day 0H 51M 51S

- SSID: Name of the wireless.
- Channel: The channel that Wireless will use.
- Authentication: Select the encryption wanted for the wireless SSID.
- Cipher Suite: Select the cipher wanted for the wireless SSID.
- Key: The password for the SSID

After filling the above value as we want, we can press “Apply Changes” to switch to AP mode.

WISP Mode

WISP Mode allows the CPE 300 to operate connect to ISP Wireless and operate as router. By applying the changes it will switch to WISP Mode.



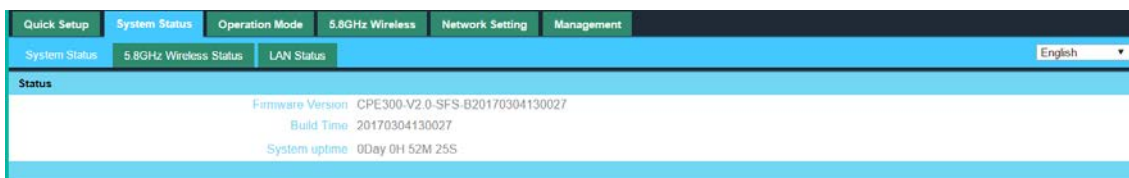
- WAN Access Type: Dynamic IP / Fixed IP.
- PPPoE: Input the user name and password if PPPoE is needed.
- SSID: Name of the wireless.
- P2P passthrough: Enable / Disable P2P.
- Channel: The channel that Wireless will use.
- Authentication: Select the encryption wanted for the wireless SSID.
- Cipher Suite: Select the cipher wanted for the wireless SSID.
- Key: The password for the SSID

After filling the above value as we want, we can press “Apply Changes” to switch to WISP mode.

Advanced settings

System Status

- **Status:** This tab displays the information regarding Software Version, Hardware Version and the time that the device is online.

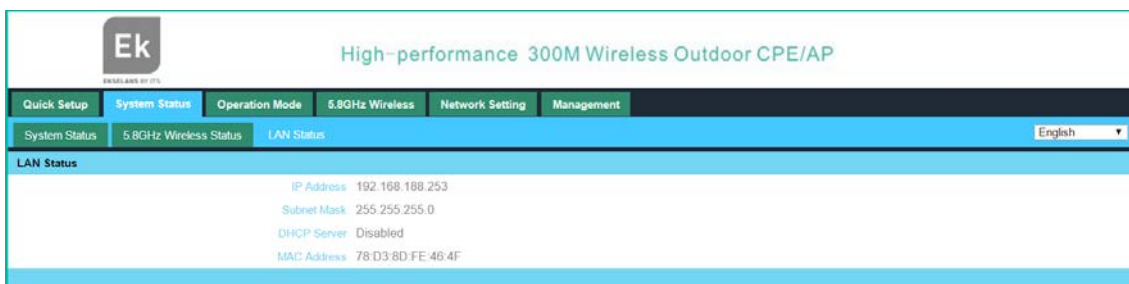


- **5.8GHz Status:** Shows the current configuration for the Wireless, it also displays the LAN connected users.



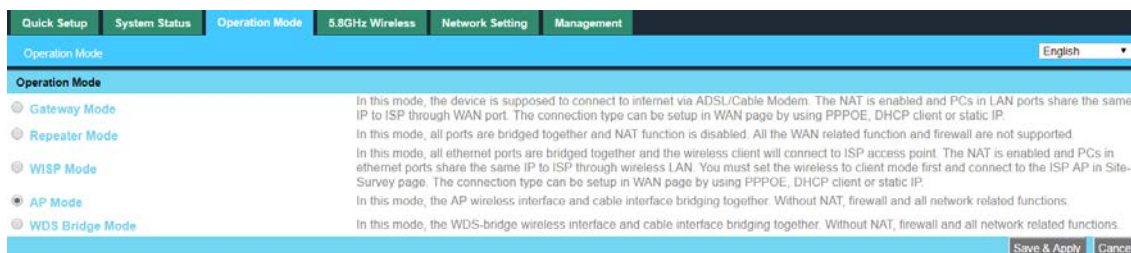
Client Table button will show a pop up window showing the connected clients.

- **LAN Status:** Displays the current configuration for the LAN interface of the device. It also shows the configuration for the DHCP.



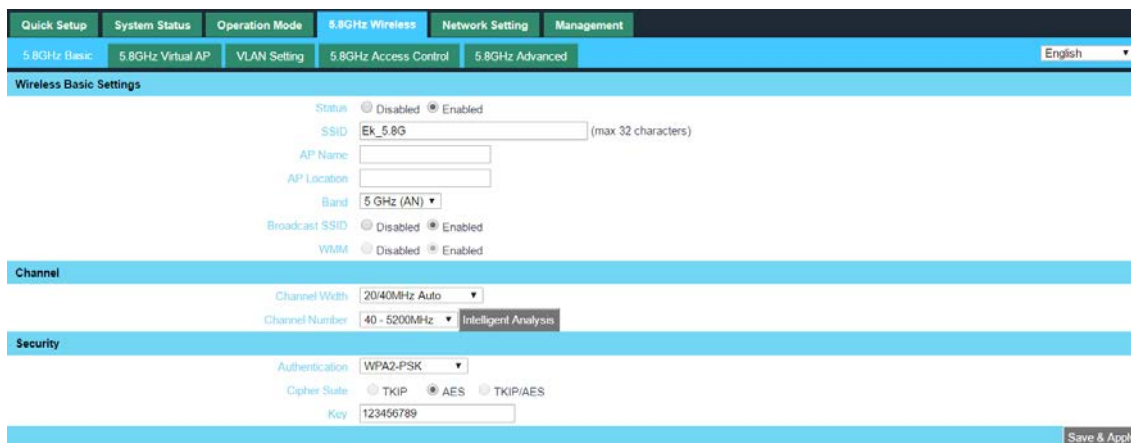
Operation Mode

This tab is used to configure the AP Mode.



- **Gateway Mode:** Connect to the ISP through WAN, the AP will operate as Router.
- **Repeater Mode:** Connect to a Wireless and repeat it. The AP will operate as bridge mode.
- **WISP Mode:** Connect to ISP Wireless. The AP will operate as router.
- **AP Mode:** The AP operates as bridge mode.
- **WDS Bridge:** Connect with another SSID to make a bridg.

Wireless 5.8G



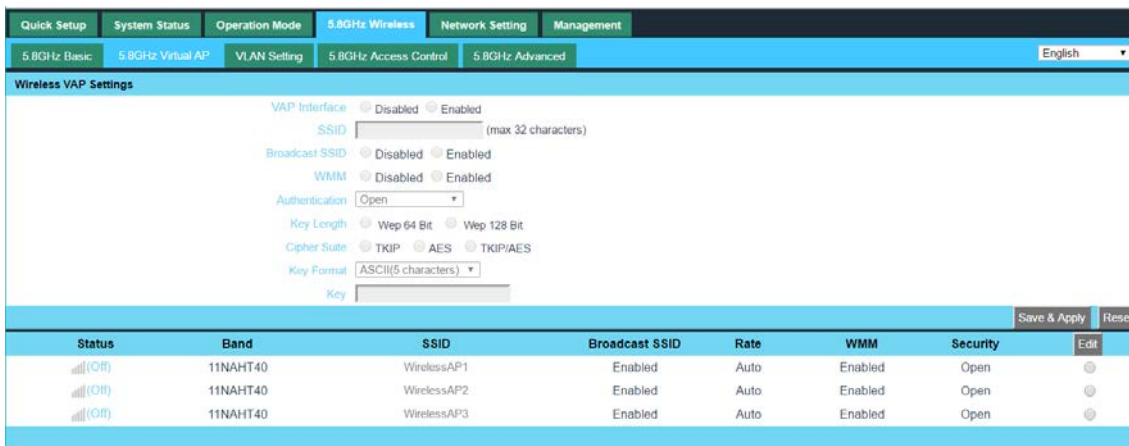
- Status: Disabled / Enabled.
- SSID: Name of the Wireless.
- Band: Use N or AC or N/AC.
- Broadcast SSID: Enable - Show SSID, Disable – Hide SSID,
- WMM: Enable or Disable WMM.
- P2P passthrough: Enable / Disable P2P.
- Channel Width: The width that Wireless will use 20MHz, 40MHz or 80MHz.
- Channel Number: The channel that Wireless will use.
- Authentication: Select the authentication wanted for the wireless SSID.
- Cipher Suite: Select TKIP / AES or both.
- Key: The password for the SSID.

Wireless Analyzer will show open a window displaying all the SSID with its channel so you can properly select a channel for your SSID.

Press apply to save the changes.

Virtual AP

In this tab we can create up to 3 more SSID, each Virtual AP 1 is a new SSID.



Status	Band	SSID	Broadcast SSID	Rate	WMM	Security	Edit
(Off)	11NAHT40	WirelessAP1	Enabled	Auto	Enabled	Open	
(Off)	11NAHT40	WirelessAP2	Enabled	Auto	Enabled	Open	
(Off)	11NAHT40	WirelessAP3	Enabled	Auto	Enabled	Open	

Select the Virtual AP you want to change and then press Edit button.

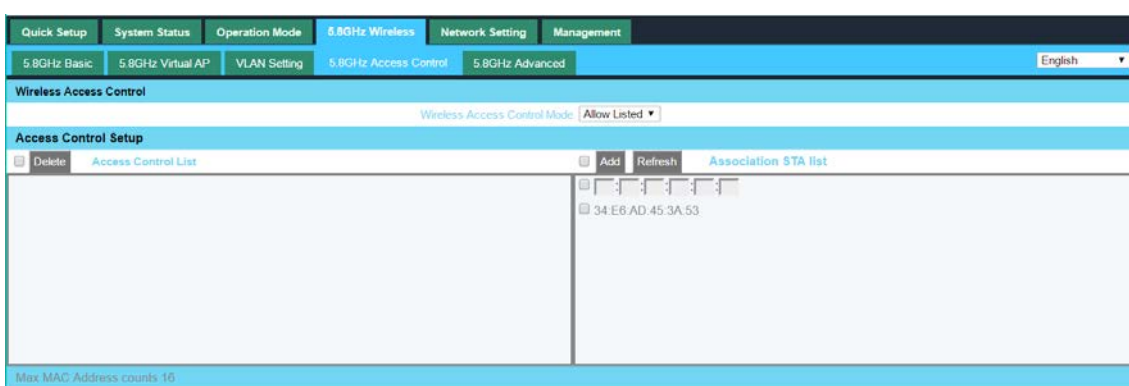
- VAP Interface: Disabled / Enabled.
- SSID: Name of the Wireless.
- Broadcast SSID: Enable - Show SSID, Disable – Hide SSID,
- WMM: Enable or Disable WMM.
- Authentication: Select the authentication wanted for the wireless SSID.
- Cipher Suite: Select TKIP / AES or both.
- Key: The password for the SSID.

Press apply to save the changes.

Access Control

The access control limits the devices that can connect to AP 300. We can set the access control to:

- **MAC Access All:** In this mode all the devices can connect to AP 300.
- **Allow Listed:** In this mode the all the MAC address on the Access Control List can access the AP 300.
- **Deny Listed:** In this mode all the MAC address on the Access Control List can't access the AP 300.

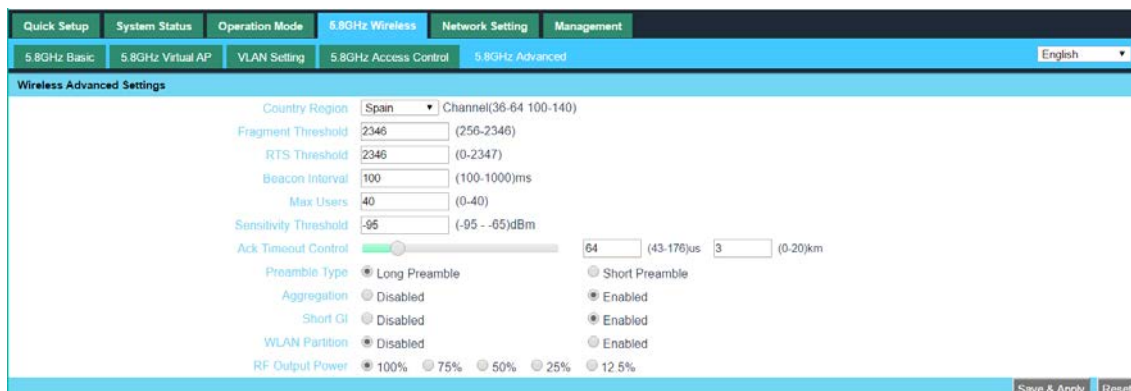


- **Association STA list:** In this list will appear the already connected MAC to the device. You can select them and press import to move them to the Access Control List.

How to add MAC to the list:

1. Input the MAC
2. Press Add
3. The added MAC will go to the Access Control List
4. Press Apply

Advanced Settings



- **Country Region:** Select the region
- **RTS Threshold:** Lower this value if you have problems with electromagnetic interface or overload of traffic on a network.
- **Ack Timeout control:** Interval for the ACK, the devices is waiting to get the ACK response from the device. Too long time might reduce a bit the bandwidth.
- **Beacon interval:** The time interval for the beacon. The beacon time is a packet sent to the client device to notify if the device is on. Reducing this time will sent more packets making the net a bit slower. Too high value will make the device disconnect more often.
- **MAX User:** Set the max client numbers that can connect to the device
- **Aggregation:** Allows a higher throughput
- **Short GI:** Help improve the throughput, use it only for N mode if used mixed mode please disable.
- **WLAN Partition:** ON: The users cannot see each other in the network.
- **RF Output Power:** Control the wireless output power. This affects the coverage range.

Network

In case that the AP works as Router, in this tab we can selected the IP for the AP and the DHCP range

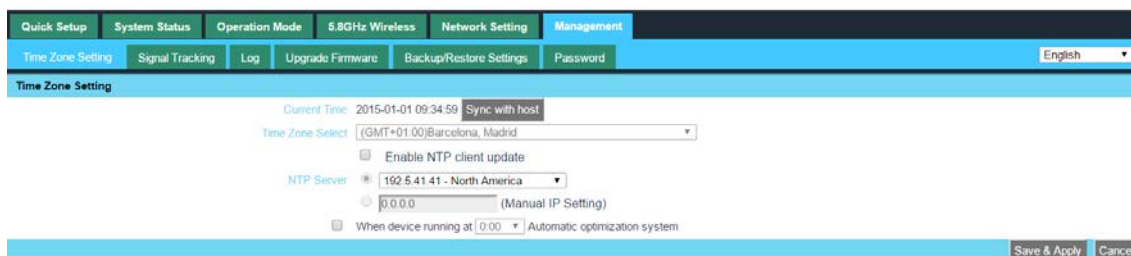
Quick Setup	System Status	Operation Mode	5GHz Wireless	Network Setting	Management
LAN Interface					English
LAN Interface Setup					
Access Type: StaticIP					
IP Address: 192 . 168 . 188 . 253					
Subnet Mask: 255 . 255 . 255 . 0					
Management Server IP: 192 . 168 . 188 . 1					
DHCP Server Setting					
DHCP Server: <input checked="" type="radio"/> Disabled <input type="radio"/> Local					
DHCP Client Range: 192 . 168 . 188 . 2 - 192 . 168 . 188 . 252					
Lease Time(sec): 86400					
					Save & Apply

Management

Time Zone Setting

Manage the device timezone.

Auto restart function enables the device to be rebooted at the setup time.



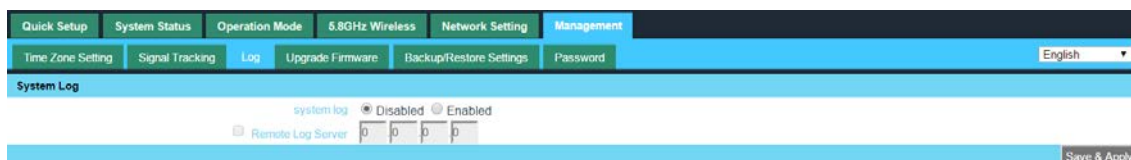
The screenshot shows the 'Time Zone Setting' page. At the top, there is a navigation bar with tabs: Quick Setup, System Status, Operation Mode, 5.8GHz Wireless, Network Setting, and Management. Under 'Management', there are sub-tabs: Time Zone Setting, Signal Tracking, Log, Upgrade Firmware, Backup/Restore Settings, and Password. The page content includes:

- Current Time: 2015-01-01 09:34:59 (with a 'Sync with host' button)
- Time Zone Select: (GMT+01:00)Barcelona, Madrid (dropdown menu)
- Enable NTP client update:
- NTP Server: 192.5.41.41 - North America (dropdown menu)
- Manual IP Setting: 0.0.0.0
- When device running at: 0:00 (dropdown menu) Automatic optimization system

 At the bottom right, there are 'Save & Apply' and 'Cancel' buttons.

Logs

Se muestra toda la información referente a los “logs” del sistema.



The screenshot shows the 'System Log' page. It features the same navigation bar as the previous page. Under 'Management', the 'Log' sub-tab is selected. The page content includes:

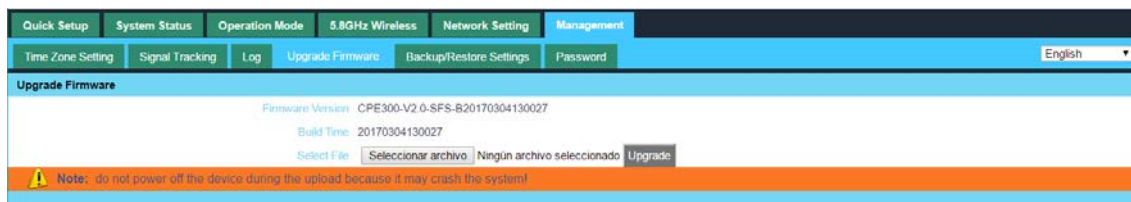
- system log: Disabled Enabled
- Remote Log Server: 0 0 0 0 (input fields)

 At the bottom right, there is a 'Save & Apply' button.

- System Log: Enable to register the logs.
- Remote Log Server: Set the IP where the logs will be saved.

Upgrade firmware

Select the new firmware version file and press “Upgrade” to upgrade the device firmware.

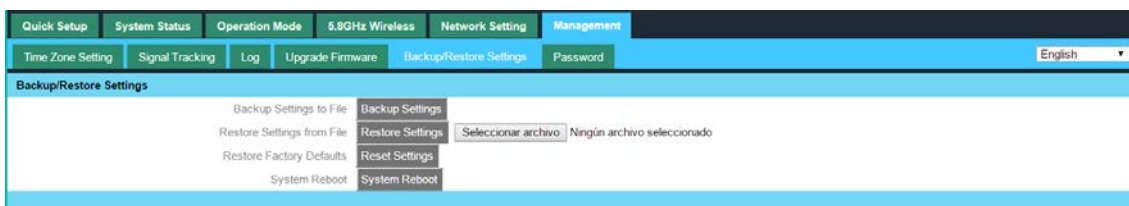


The screenshot shows the 'Upgrade Firmware' page. It features the same navigation bar. Under 'Management', the 'Upgrade Firmware' sub-tab is selected. The page content includes:

- Firmware Version: CPE300-V2.0-SFS-B20170304130027
- Build Time: 20170304130027
- Select File: Seleccionar archivo (dropdown menu) Ningún archivo seleccionado
- Upgrade: (button)

 At the bottom, there is a warning message: 'Note: do not power off the device during the upload because it may crash the system!'

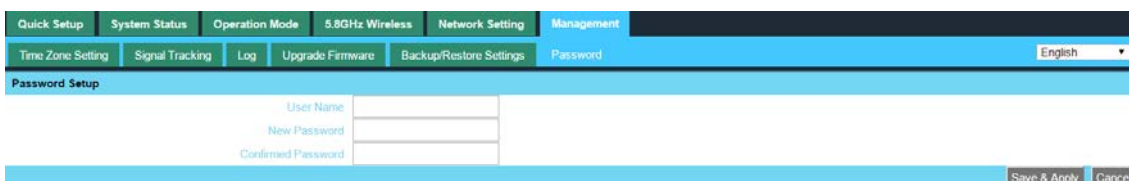
Backup / Restore Settings



- **Backup Settings to File:** Will save to disk the device configuration.
- **Restore Settings from File:** Select the saved configuration to be imported on the device.
- **Reset Factory Defaults:** Restore all the device values to default.
- **System Reboot:** Reboot the device.

Password

Change the default admin password for the device.



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