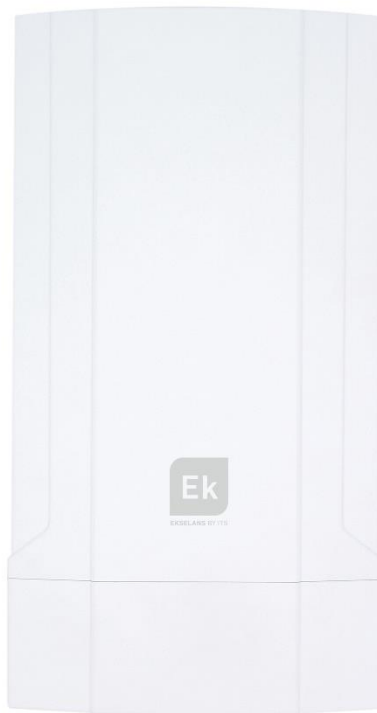


CPE 300 24 LP

333010

Wireless Outdoor CPE



User manual

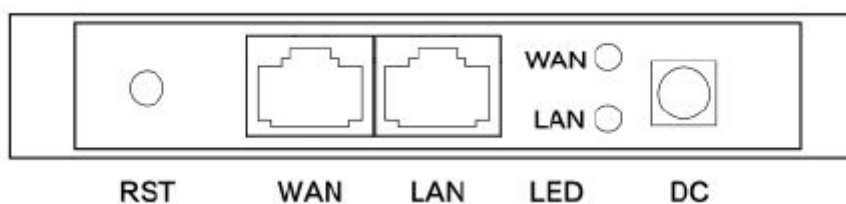


EKSELANS BY ITS

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Hardware interface



- **RST:** Reset Button, it makes 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

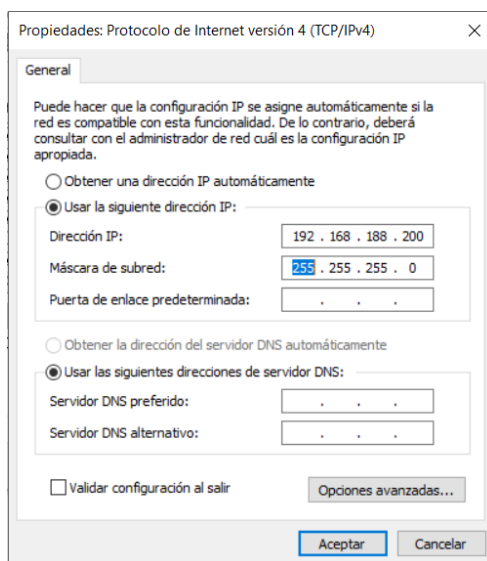


Connect

Note: The default SSID is Ek_2.4G with password 12345678

To connect to **CPE 300 24 LP** please follow these steps:

1. Connect to **CPE 300 24 LP** 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**

Web interface

After entering the password will appear the main interface



1. Displays the Menu.
2. CPE Uptime.
3. Display the FLOW in real time.
4. Displays the CPU Usage of the device.
5. Display information on the WDS Bridge with the other AP.
6. Display WiFi Information. User Count open a wireless window showing:

SN	Name	MAC Address	Up	Down	Signal	Connect Time
1		34:E6:AD:45:3A:53	87Kb	183Kb	-39dBm	0 Day 5 H 13 M 41 S

7. Displays the AP position information, by doing click on it will open the fast configuration menu for AP position.

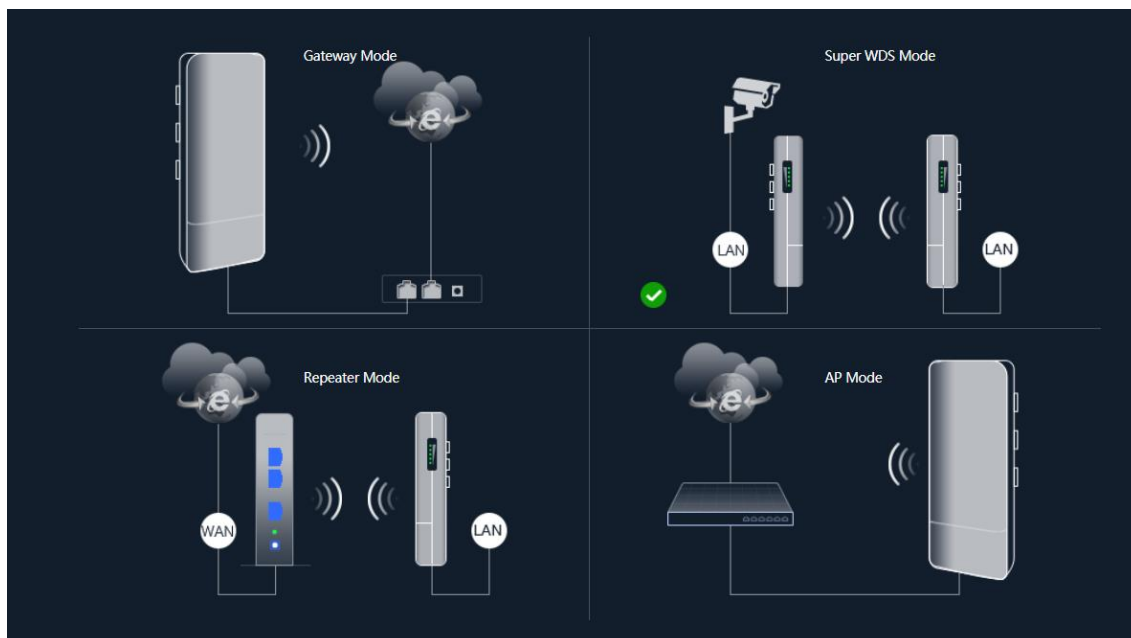
Device Location

Device Location

Apply

Wizard

There are four-operation mode available.

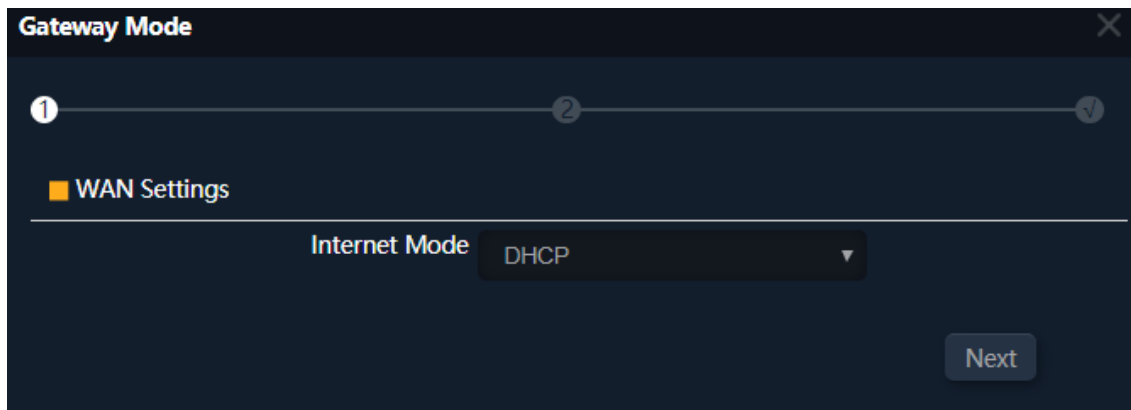


- **Gateway Mode:** Connect to the network through LAN cable and operate CPE 300 24 LP as router.
- **Repeater Mode:** Connects to a SSID and broadcast a new SSID
- **Super WDS Mode:** Make a bridge through a WDS connection.
- **AP Mode:** Connect to the network through LAN cable and operate as bridge mode (the device is transparent).

When you click in the desired operation mode, you will go to the wizard window for the selected mode. The wizard will guide you systematically to fully set it up.

Wizard: Gateway Mode

The Gateway Mode wizard will guide you through few steps and few options to properly configuring the device.

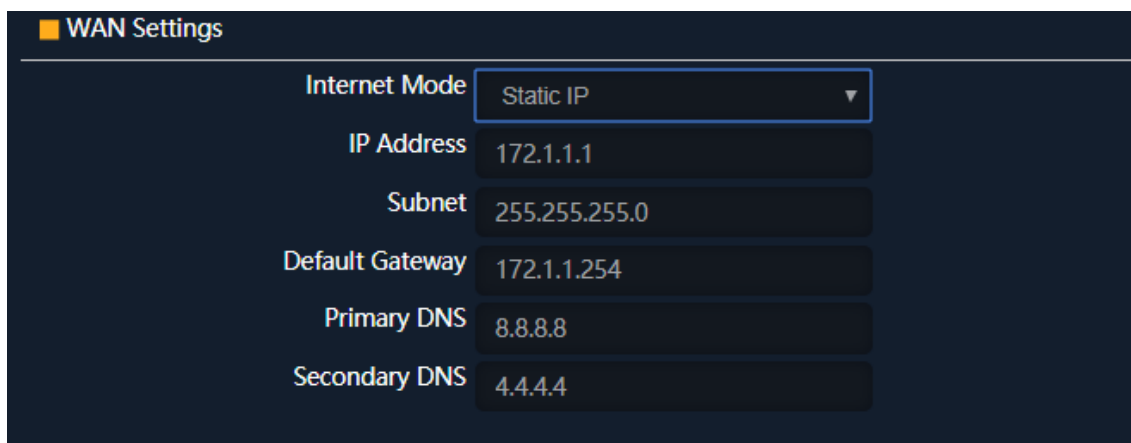


The screenshot shows the 'Gateway Mode' wizard window. At the top, there is a progress bar with three steps: 1 (active), 2, and 3. Below the progress bar, the title 'WAN Settings' is displayed with a yellow square icon. The main content area shows 'Internet Mode' set to 'DHCP' in a dropdown menu. A 'Next' button is located at the bottom right.

First Step

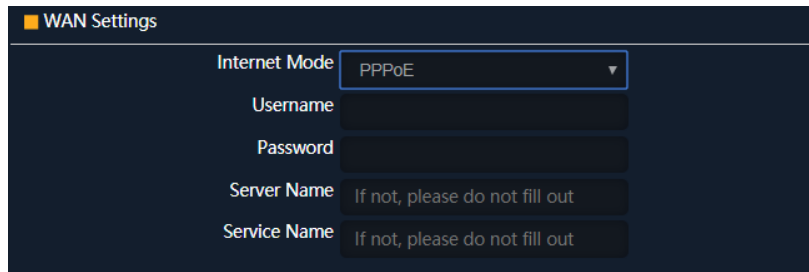
Select the WAN connection mode:

- **DHCP:** The WAN connection will get the IP value from a DHCP server
- **Static IP:** You can set the WAN IP manually; you will need to fill IP Address, Subnet Mask, Default Gateway and Primary DNS.



The screenshot shows the 'WAN Settings' section of the wizard. The 'Internet Mode' dropdown is now set to 'Static IP'. Below this, several input fields are visible: 'IP Address' (172.1.1.1), 'Subnet' (255.255.255.0), 'Default Gateway' (172.1.1.254), 'Primary DNS' (8.8.8.8), and 'Secondary DNS' (4.4.4.4).

- **PPPoE:** You can also connect through PPPoE it will ask username and password.



WAN Settings

Internet Mode: PPPoE

Username:

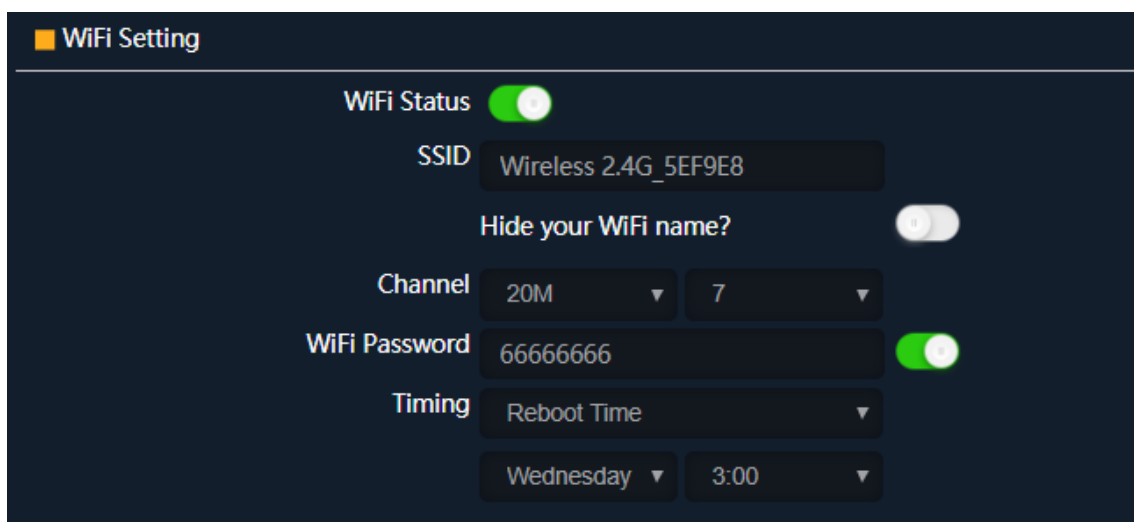
Password:

Server Name: If not, please do not fill out

Service Name: If not, please do not fill out

When you are done, press Next to continue.

Second Step



WiFi Setting

WiFi Status: ☒

SSID: Wireless 2.4G_5EF9E8

Hide your WiFi name? ☐

Channel: 20M 7

WiFi Password: 66666666 ☒

Timing: Reboot Time

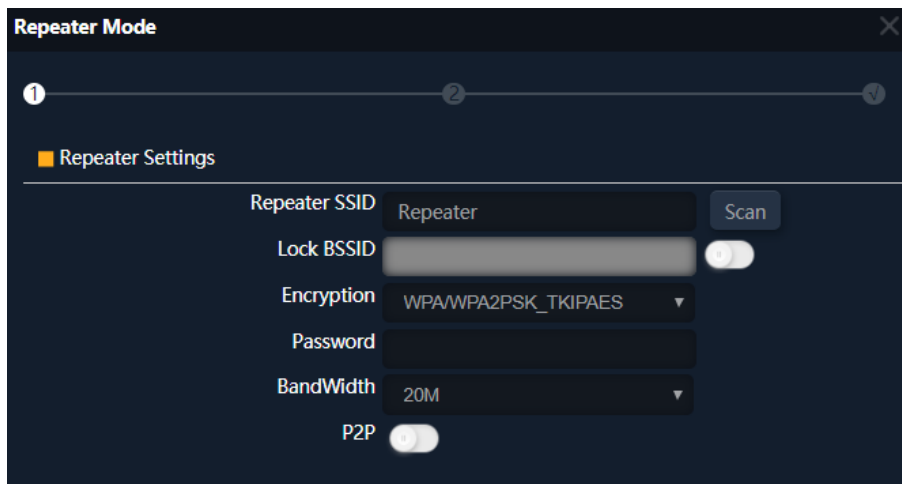
Wednesday 3:00

- **WiFi Status:** ON / OFF.
- **SSID:** Name of the wireless.
- **Channel:** The channel that Wireless will use from 1 to 13. Select also de bandwidth 20Mhz to 40Mhz.
- **Wifi Password:** The password for the SSID
- **Timing:** You can choose whether the AP will restart at a specific Reboot time (Day and hours) or a Restart Interval from 1 to 10 days.

When you are done, press Next to continue. The AP will reboot with the new configuration.

Wizard: Repeater Mode

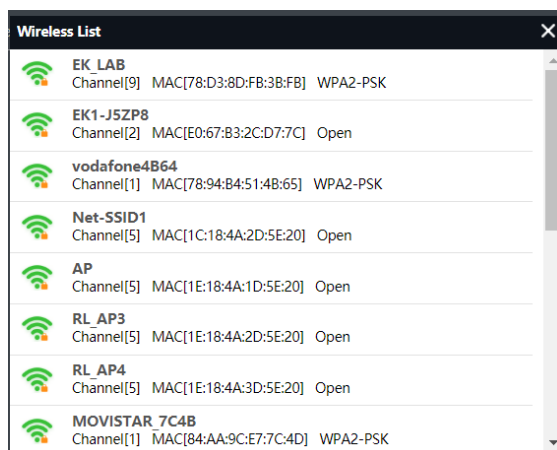
The Gateway Mode wizard will guide you through few steps and few options to properly configuring the device.



The image shows a 'Repeater Mode' configuration window. It has a progress bar at the top with three steps, the first of which is active. Below the progress bar is a section titled 'Repeater Settings'. This section contains several fields: 'Repeater SSID' with a text input field containing 'Repeater' and a 'Scan' button; 'Lock BSSID' with a text input field and a toggle switch; 'Encryption' with a dropdown menu showing 'WPA/WPA2PSK_TKIP/AES'; 'Password' with a text input field; 'BandWidth' with a dropdown menu showing '20M'; and 'P2P' with a toggle switch.

First Step

Select the SSID that we want to connect to by pressing Scan button. It will load a list of all the SSID in range.



The image shows a 'Wireless List' window displaying a list of detected wireless networks. Each entry includes a signal strength icon, the network name (SSID), the channel, the MAC address, and the encryption type.

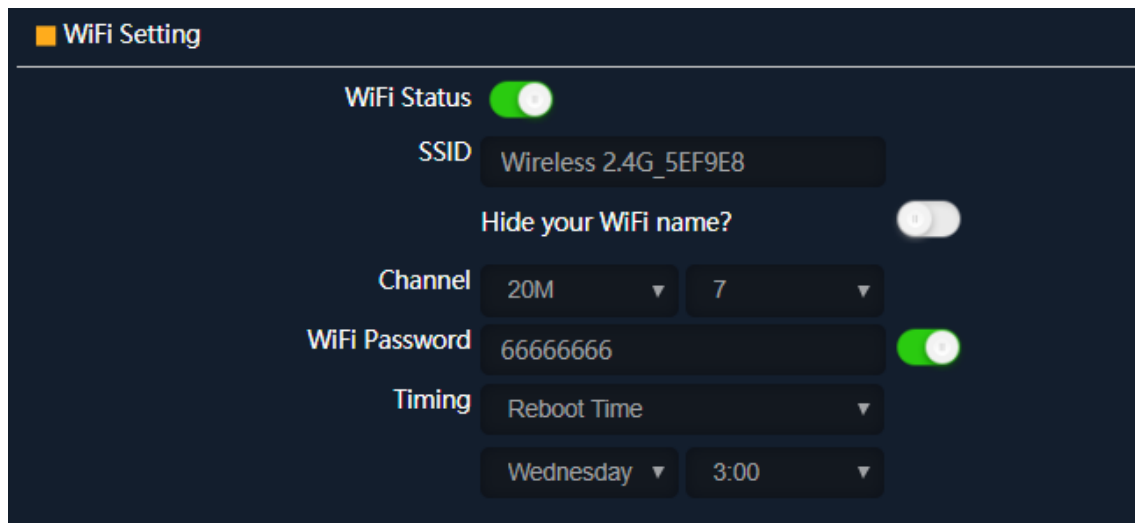
Signal	SSID	Channel	MAC	Encryption
📶	EK_LAB	Channel[9]	MAC[78:D3:8D:FB:3B:FB]	WPA2-PSK
📶	EK1-J5ZP8	Channel[2]	MAC[E0:67:B3:2C:D7:7C]	Open
📶	vodafone4B64	Channel[1]	MAC[78:94:B4:51:4B:65]	WPA2-PSK
📶	Net-SSID1	Channel[5]	MAC[1C:18:4A:2D:5E:20]	Open
📶	AP	Channel[5]	MAC[1E:18:4A:1D:5E:20]	Open
📶	RL_AP3	Channel[5]	MAC[1E:18:4A:2D:5E:20]	Open
📶	RL_AP4	Channel[5]	MAC[1E:18:4A:3D:5E:20]	Open
📶	MOVISTAR_7C4B	Channel[1]	MAC[84:AA:9C:E7:7C:4D]	WPA2-PSK

Select the desired SSID. It will load the values on the Wireless Repeater form.

- **Repeater SSID:** The name of the SSID selected.
- **Encryption:** Encryption of the SSID selected.
- **Password:** Input the SSID key for the SSID selected.
- **BandWidth:** The bandwidth of the SSID selected.
- **P2P:** Enable it to properly work.

When you are done, press Next to continue. It will guide you to the second step.

Second Step



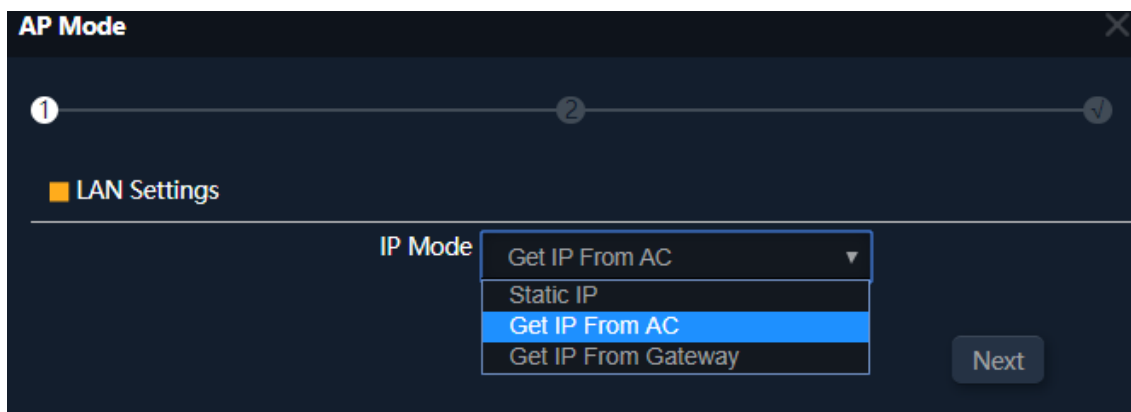
The image shows a 'WiFi Setting' interface with a dark blue background. At the top left, there is a yellow square icon followed by the text 'WiFi Setting'. Below this, the 'WiFi Status' is shown as a green toggle switch that is turned on. The 'SSID' field contains the text 'Wireless 2.4G_5EF9E8'. Below the SSID, there is a toggle switch for 'Hide your WiFi name?' which is currently turned off. The 'Channel' section has two dropdown menus: the first is set to '20M' and the second is set to '7'. The 'WiFi Password' field contains the text '66666666' and has a green toggle switch turned on to the right. The 'Timing' section has a dropdown menu set to 'Reboot Time', which is further divided into two sub-dropdowns: 'Wednesday' and '3:00'.

- **WiFi Status:** ON / OFF.
- **SSID:** Name of the wireless.
- **Channel:** The channel that Wireless will use from 1 to 13. Select also the bandwidth 20Mhz to 40Mhz.
- **Wifi Password:** The password for the SSID
- **Timing:** You can choose whether the AP will restart at a specific Reboot time (Day and hours) or a Restart Interval from 1 to 10 days.

When you are done, press Next to continue. The AP will reboot with the new configuration.

Wizard: AP Mode

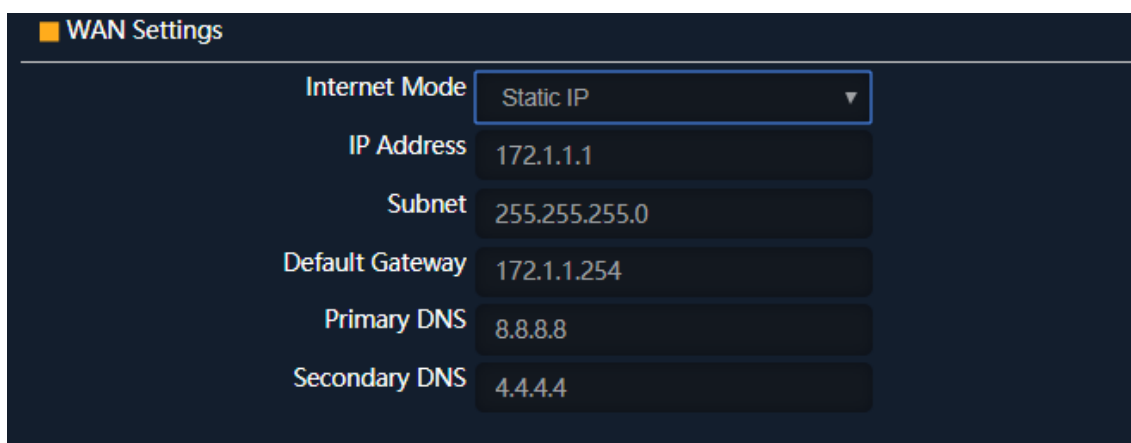
The AP Mode wizard will guide you through few steps and few options to properly configuring the device.



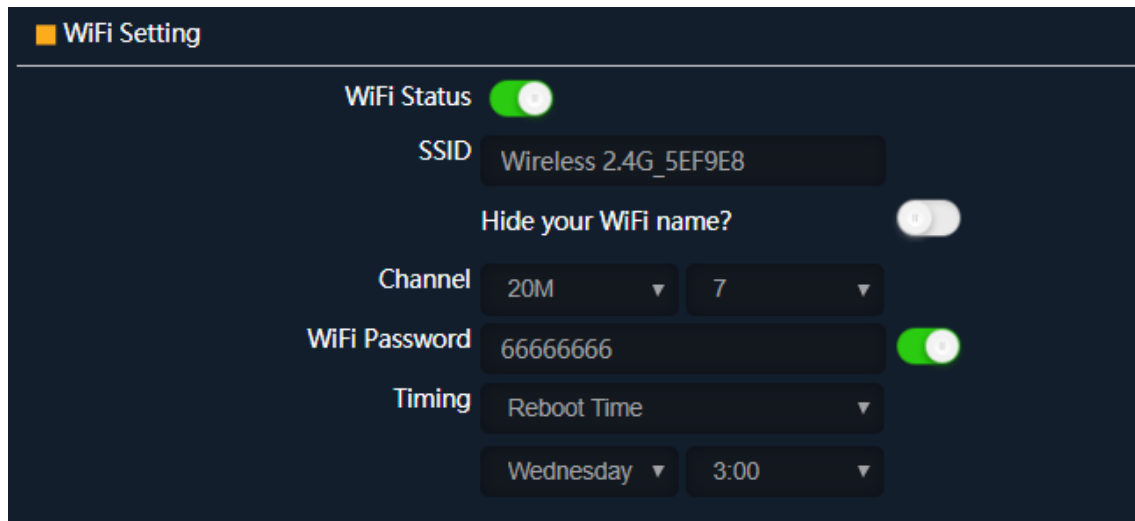
First Step

Select the WAN connection mode:

- **Get IP From AC:** The WAN connection will get the IP value from a DHCP server.
- **Get IP From Gateway:** The WAN connection will get the IP value from a DHCP server.
- **Static IP:** You can set the WAN IP manually; you will need to fill IP Address, Subnet Mask, Default Gateway and Primary DNS.



Second Step



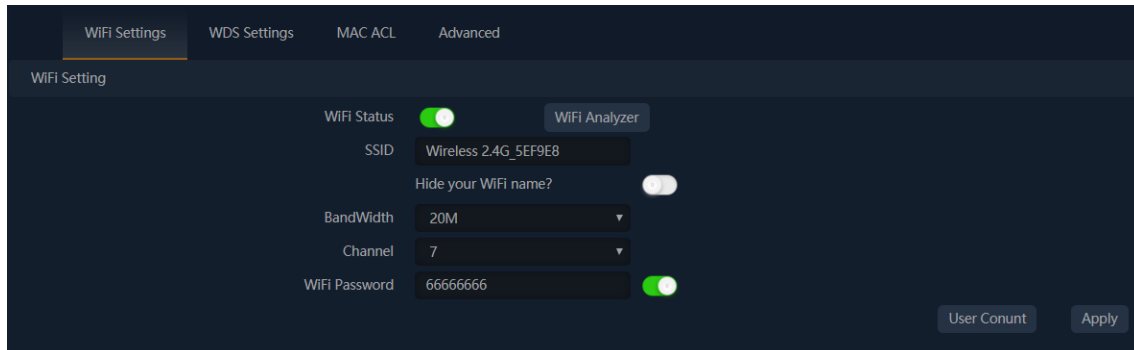
The image shows a 'WiFi Setting' interface with a dark blue background. At the top left, there is a yellow square icon followed by the text 'WiFi Setting'. Below this, the 'WiFi Status' is shown as a green toggle switch that is turned on. The 'SSID' field contains the text 'Wireless 2.4G_5EF9E8'. The 'Hide your WiFi name?' option is a white toggle switch that is turned off. The 'Channel' section has two dropdown menus: the first is set to '20M' and the second is set to '7'. The 'WiFi Password' field contains the text '66666666' and has a green toggle switch turned on to the right. The 'Timing' section has a dropdown menu set to 'Reboot Time', and below it, two more dropdown menus are set to 'Wednesday' and '3:00'.

- **WiFi Status:** ON / OFF.
- **SSID:** Name of the wireless.
- **Channel:** The channel that Wireless will use from 1 to 13. Select also de bandwidth 20Mhz to 40Mhz.
- **Wifi Password:** The password for the SSID
- **Timing:** You can choose whether the AP will restart at a specific Reboot time (Day and hours) or a Restart Interval from 1 to 10 days.

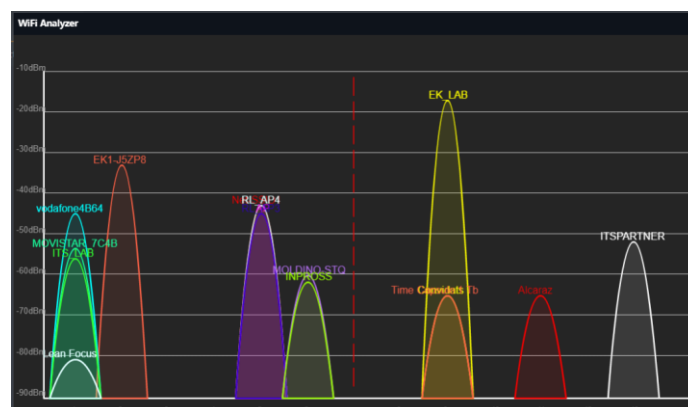
When you are done, press Next to continue. The AP will reboot with the new configuration.

WiFi settings

Clicking in the Wireless section will open the Wireless settings.



- **Wireless Status:** ON / OFF.
- **SSID:** Name of the wireless.
- **Hide your WiFi name:** Green - Show SSID, White – Hide SSID,
- **Band Width:** The width that Wireless will use 20MHz or 40MHz.
- **Channel:** The channel that Wireless will use from 1 to 13.
- **Wifi Password:** The password for the SSID
- **Wifi Analyzer:** Will open a tool to help us see the clean channels.



After filling the above value as we want, we can press “Apply” to save the changes for our Wireless.

WDS Settings

WiFi Settings

WDS Settings

MAC ACL

Advanced

WDS Settings

WDS Status ☒

Quick Link ☒

AP BSSID 44:D1:FA:5E:FA:00

Mark

Scan

AP BSSID

Mark

Scan

AP BSSID

Mark

Scan

AP BSSID

Mark

Scan

Password

☐

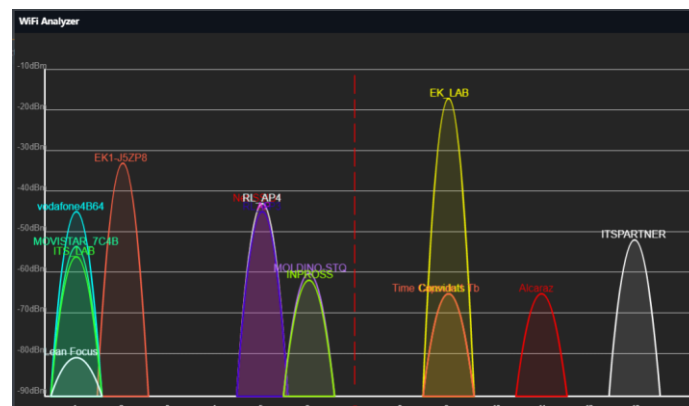
BandWidth 20M

Channel 7

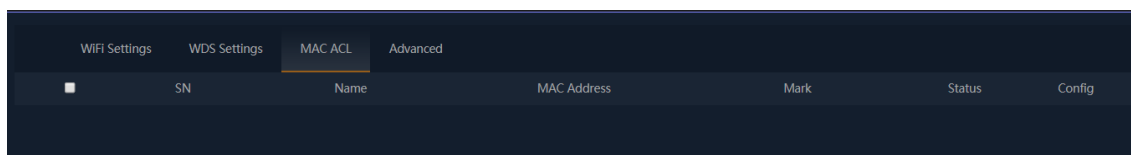
WiFi Analyzer

Apply

- **WDS Status:** Green - ON / White- OFF.
- **SSID:** Green - ON / White- OFF. Enables the Quick Link communication.
- **AP SSID:** The MAC of the other paired device with WDS.
- **Password:** Adds a password to the WDS connection for more security.
- **Band Width:** The width that Wireless will use 20MHz or 40MHz.
- **Channel:** The channel that Wireless will use from 1 to 13.
- **Wifi Analyzer:** Will open a tool to help us see the clean channels.

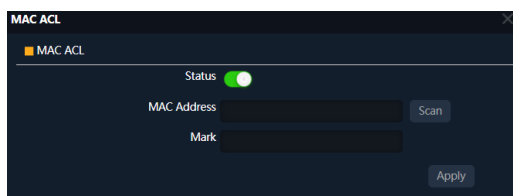


MAC ACL



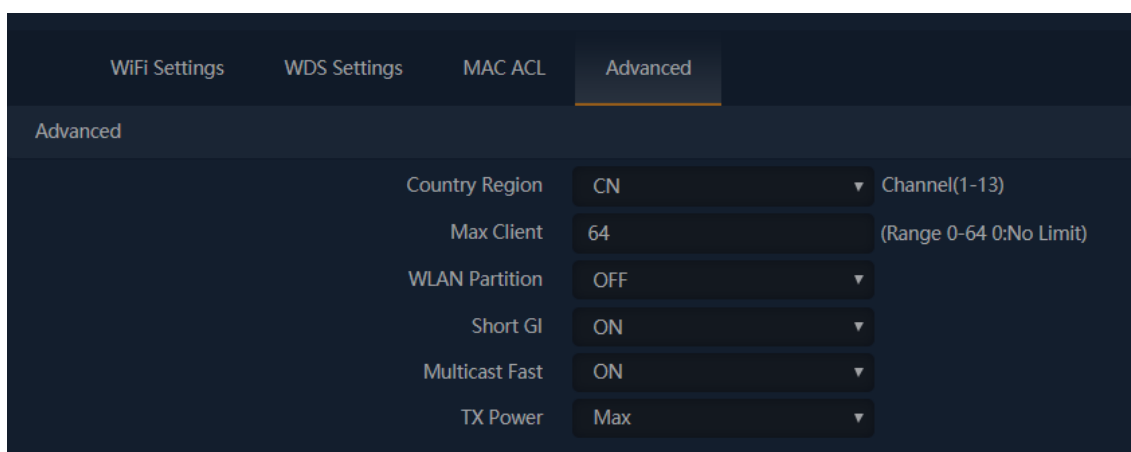
Sets the CPE 300 24 LP to accept or deny the MAC-Address added on to the list

The button Add will open the screen to add the MAC-Address to allow or deny.



Once done press Apply.

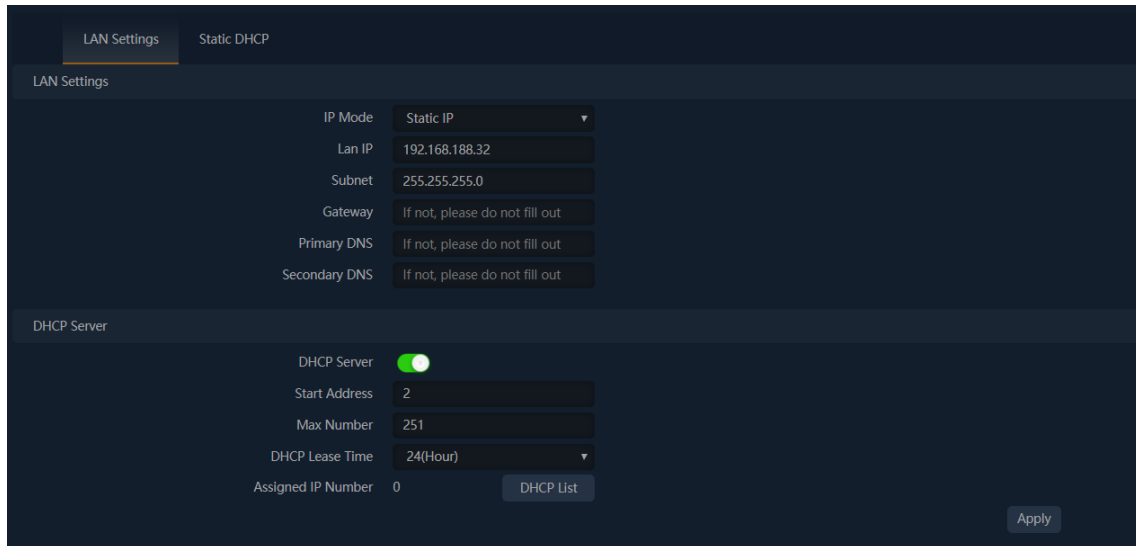
Advanced



- **Country Region:** Change the country region. It will allow one range of channels or another.
- **Max Client:** Max number of clients allowed to connect.
- **WLAN Partition:** The client connected to the access point will be isolated.
- **Short GI:** Help improve the throughput, use it only for N mode if used mixed mode please disable.
- **TX Power:** Adjust the RF output power.

Network Config

Clicking in the Wireless section will open the fast configuration menu for Wireless



The screenshot shows a network configuration interface with two tabs: "LAN Settings" and "Static DHCP". The "LAN Settings" tab is active, displaying fields for IP Mode (Static IP), Lan IP (192.168.188.32), Subnet (255.255.255.0), Gateway, Primary DNS, and Secondary DNS. Below these is the "DHCP Server" section, which includes a toggle for the DHCP Server (currently ON), Start Address (2), Max Number (251), DHCP Lease Time (24(Hour)), and Assigned IP Number (0). There is a "DHCP List" button and an "Apply" button at the bottom right.

- **IP Mode:** Select the mode you will be using.
 Static IP: Input the IP manually.
 Get IP from AC: The AP will get the IP from the Controller.
 Get IP from Gateway: The AP will get the IP from the Gateway.
 GHCP:
- **DHCP Server:** You can enable or disable the DHCP Server.
- **DHCP Status:** ON – To enable the DHCP, OFF – To disable the DHCP.
- **Start Address:** The starting IP for the DHCP range.
- **Max Number:** The ending IP for the DHCP range.
- **DHCP Lease Time:** The time to renew the IP for the connected devices.

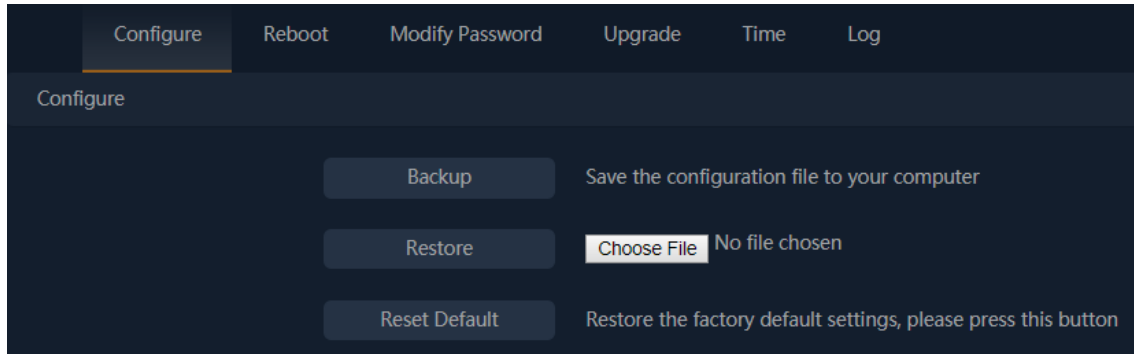
After filling the above values as we want, we can press “Apply” to save the changes for our LAN settings.

Static DHCP

You will be allowed to assign static IPs to the selected MAC-Addresses.

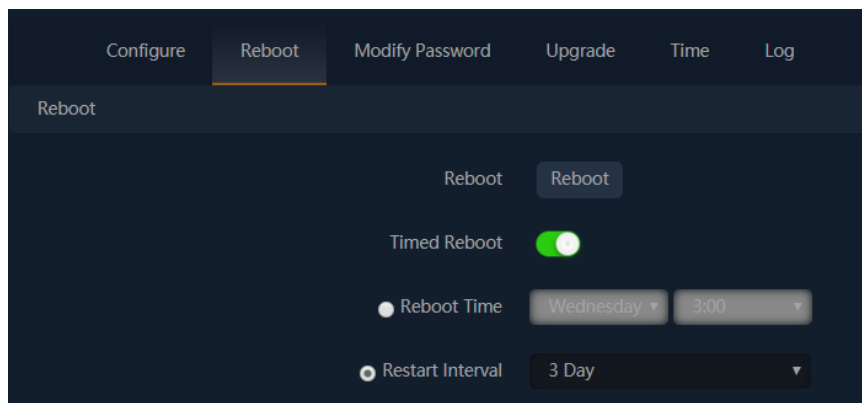
Device Manage

Configure



- **Backup:** Will save to disk the device configuration.
- **Restore:** Select the saved configuration to be imported on the device.
- **Reset Default:** Restore all the device values to default.

Reboot

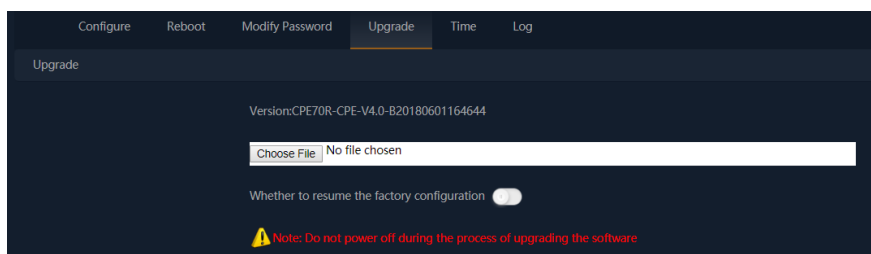


- **Backup:** Reboot the device.
- **Time Reboot:** Activate the auto reboot function.
- **Reboot Time:** Select the day and hour in the week for the device to be rebooted.
- **Restart Interval:** Select the interval the device will reboot 1 to 10 days.
- **LAN Status:** Displays the current configuration for the LAN interface of the device. It also shows the configuration for the DHCP.

Upgrade firmware

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

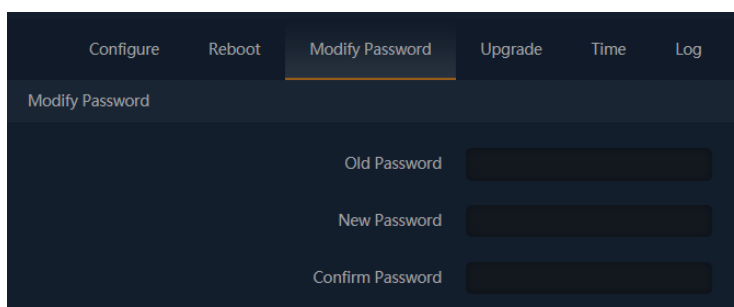
If “Whether to resume the factory configuration” is activated the device will upgrade the firmware and also put the device back to factory default.



The screenshot shows the 'Upgrade' tab in the device's configuration menu. At the top, there are navigation tabs: 'Configure', 'Reboot', 'Modify Password', 'Upgrade' (selected), 'Time', and 'Log'. Below the tabs, the 'Upgrade' section displays the current version: 'Version: CPE70R-CPE-V4.0-B20180601164644'. There is a 'Choose File' button next to a text field that says 'No file chosen'. Below this, there is a toggle switch for 'Whether to resume the factory configuration', which is currently turned off. At the bottom, there is a red warning icon and text: 'Note: Do not power off during the process of upgrading the software'.

Modify Password

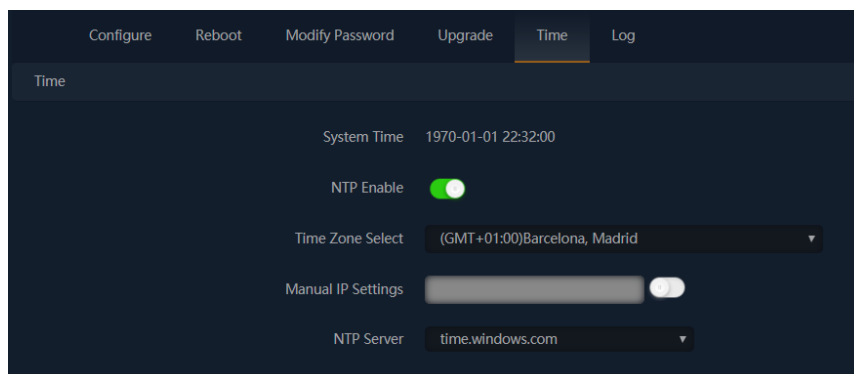
Change the default admin password for the device.



The screenshot shows the 'Modify Password' tab in the device's configuration menu. At the top, there are navigation tabs: 'Configure', 'Reboot', 'Modify Password' (selected), 'Upgrade', 'Time', and 'Log'. Below the tabs, the 'Modify Password' section contains three input fields: 'Old Password', 'New Password', and 'Confirm Password', each with a corresponding password mask icon.

Time

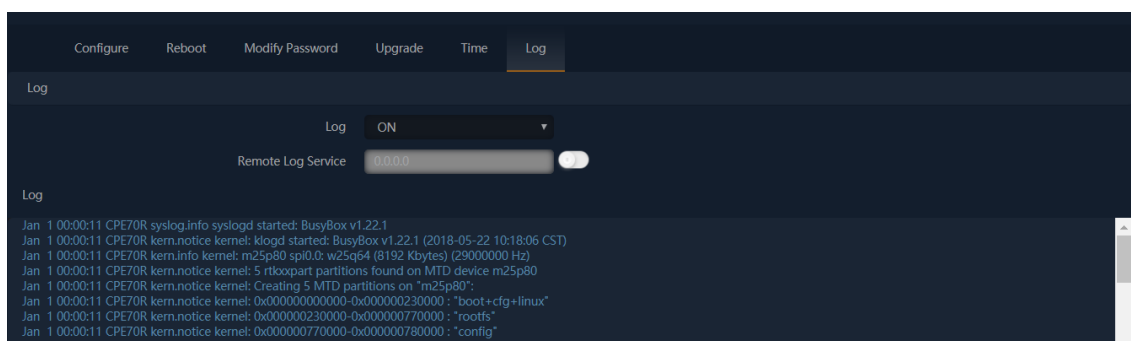
Manage the device timezone.



The screenshot shows the 'Time' tab in the device's configuration menu. At the top, there are navigation tabs: 'Configure', 'Reboot', 'Modify Password', 'Upgrade', 'Time' (selected), and 'Log'. Below the tabs, the 'Time' section displays the 'System Time' as '1970-01-01 22:32:00'. There is a toggle switch for 'NTP Enable', which is currently turned on. Below this, there is a dropdown menu for 'Time Zone Select' showing '(GMT+01:00)Barcelona, Madrid'. There is also a toggle switch for 'Manual IP Settings', which is currently turned off. At the bottom, there is a dropdown menu for 'NTP Server' showing 'time.windows.com'.

Logs

This tab will display all the logs related to the device.



- **Remote Log Service:** Enable to register the logs to a remote server.

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