

# ECO P2P / RDMS User Manual

This guide explains how to set up, test, and troubleshoot ECO P2P and RDMS (built-in P2P terminal), allowing your PC/system to connect to time attendance devices across different networks (similar to port forwarding, but without complex router configuration).

## 1.0 ECO P2P Connection Methods

ECO P2P supports three connection options depending on your network environment.



### Option 1: ECO P2P – Internet & Terminal via LAN Cable (Recommended)

**Use case:** Stable environment with available LAN ports.

Steps:

1. Connect ECO P2P WAN to your router LAN.
  - Ensure the router can provide IP address (DHCP) and Internet access.
2. Connect ECO P2P LAN to the terminal device TCP/IP port.
3. Power on ECO P2P and wait 3–5 minutes for startup.
4. On the terminal device, set:
  - IP Address: 10.0.0.201      - Port: 4370
  - Path: Menu > Comm. > IP Address / Comm Port
5. Set Comm Key (any value is acceptable).
  - Path: Menu > Comm. > PC Connection > Comm Key
6. Test connection using:
  - Web page (refer to Section 2.0), or
  - ECOTIMEPRINT ETA3 (refer to Section 3.0).

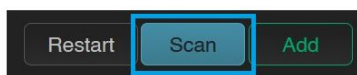


### Option 2: ECO P2P – WiFi for Internet, LAN Cable to Terminal

**Use case:** No LAN access to router, but WiFi is available.

Steps:

1. Power on ECO P2P and wait 3–5 minutes.
2. Connect your PC to ECO P2P using a LAN cable.
3. Log in to the ECO P2P router panel.
4. Navigate to Network > Wireless
5. Click Scan and select one of the following WiFi modules:



- MediaTek MT7628 (2.4GHz, slower speed but longer range)
- or
- MediaTek MT7613BE (5GHz, much faster speed but shorter range)

6. Select your WiFi SSID and click Join Network.

Join Network: Wireless Scan

Signal	SSID	Channel	Mode	BSSID	Encryption	
-40 dBm		2	Master		WPA2 PSK (CCMP)	Join Network
-40 dBm		7	Master		WPA2 PSK (CCMP)	Join Network
-44 dBm	ECOTIMEPRINT	9	Master	78:20:51:ED:75:06	WPA2 PSK (CCMP)	Join Network
-44 dBm		9	Master		WPA2 PSK (CCMP)	Join Network
-44 dBm		9	Master		WPA2 PSK (CCMP)	Join Network
-54 dBm		6	Master		mixed WPA/WPA2 PSK (TKIP, CCMP)	Join Network
-59 dBm		9	Master		WPA2 PSK (CCMP)	Join Network
-59 dBm		9	Master		WPA2 PSK (CCMP)	Join Network
-59 dBm		9	Master		WPA2 PSK (CCMP)	Join Network

7. Enter WiFi password and click Submit, do not change other settings unless necessary.

Joining Network: "ECOTIMEPRINT"

Replace wireless configuration

Check this option to delete the existing networks from this radio.

Name of the new network

wwan

Name for OpenWrt network configuration. (No relation to wireless network name/SSID)  
The allowed characters are: A-Z, a-z, 0-9 and \_

WPA passphrase

Specify the secret encryption key here.

Lock to BSSID

Instead of joining any network with a matching SSID, only connect to the BSSID 78:20:51:ED:75:06.

Create / Assign firewall-zone

wan wan: wan6: wwan:

Choose the firewall zone you want to assign to this interface. Select unspecified to remove the interface from the associated zone or fill out the custom field to define a new zone and attach the interface to it.

Cancel

Submit

8. Click Save, then Save & Apply.

Wireless Overview

radio0	MediaTek MT7628 802.11b/g/n Channel: ? ( ? GHz)   Bitrate: ? Mbit/s	Restart Scan Add
disabled	SSID: ECOP2P   Mode: Master Wireless is disabled	Enable Edit Remove
disabled	SSID: ECOTIMEPRINT   Mode: Client Interface has 7 pending changes	Disable Edit Remove
radio1	MediaTek MT7613BE 802.11ac/n Channel: 157 (5.785 GHz)   Bitrate: 6 Mbit/s	Restart Scan Add
disabled	SSID: ECOP2P   Mode: Master Wireless is disabled	Enable Edit Remove
-49/-89 dBm	SSID: ECOTIMEPRINT-5G   Mode: Client BSSID: 82:AF:CA:88:32:39   Encryption: -	Disable Edit Remove

Associated Stations

Network	MAC address	Host	Signal / Noise	RX Rate / TX Rate
Client "ECOTIMEPRINT-5G" (phy1-sta1)	B0:6E:BF:9B:3C:DC	?	-49/-90 dBm	6 Mbit/s, 20 MHz 866.7 Mbit/s, 80 MHz, VHT-MCS 9, VHT-NSS 2, Short GI

Save & Apply

Save

9. Restart ECO P2P and wait 3–5 minutes to go online.

Note: WiFi Module Comparison

MediaTek MT7628 – 802.11 b/g/n (2.4GHz)

- Slower speed
- Longer range
- Better wall penetration
- More interference (Bluetooth & crowded networks)

MediaTek MT7613BE – 802.11 ac/n (5GHz)

- Much faster speed (Wi-Fi 5)
- Shorter range
- Less wall penetration
- Cleaner, less crowded signal

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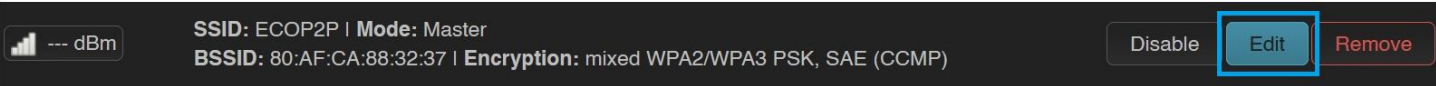
Option 3: ECO P2P – LAN for Internet, WiFi to Terminal  
Use case: Terminal device connects wirelessly to ECO P2P.



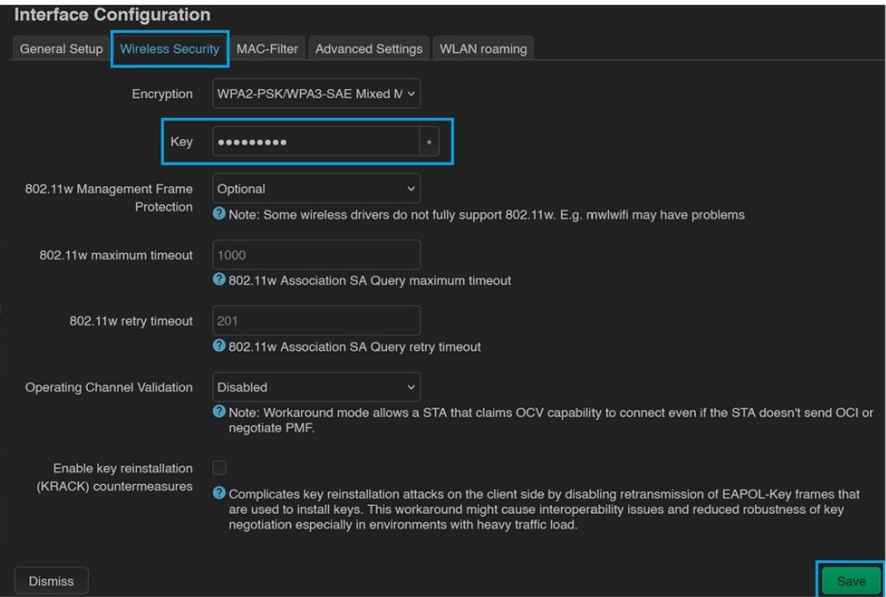
- Steps:
- 1. Power on ECO P2P and wait 3–5 minutes.
  - 2. Connect your PC to ECO P2P using a LAN cable.
  - 3. Log in to the ECO P2P router panel.
  - 4. Go to Network > Wireless
  - 5. Locate SSID: ECOP2P | Mode: Master and click Enable.



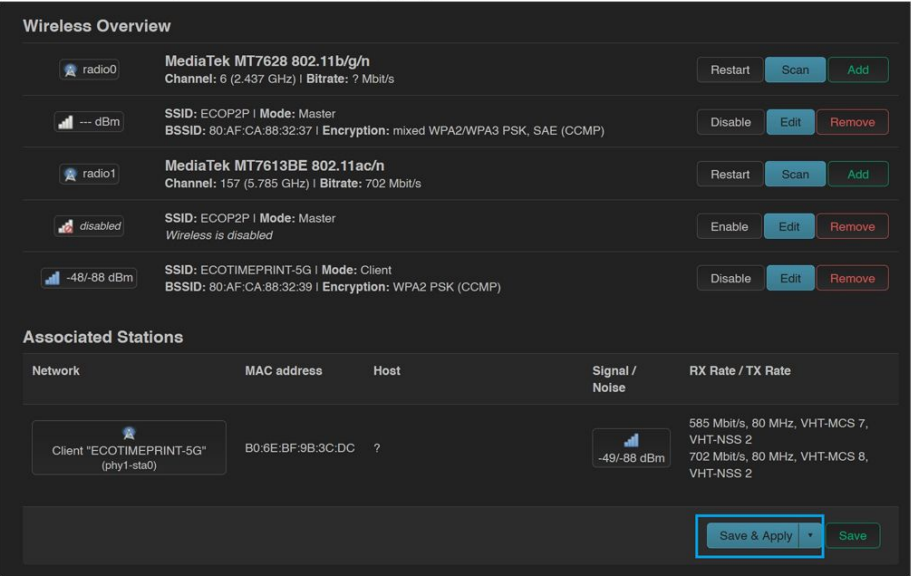
6. Click Edit.



7. Go to Wireless Security tab, look for Key section, Set a WiFi password for the terminal device.



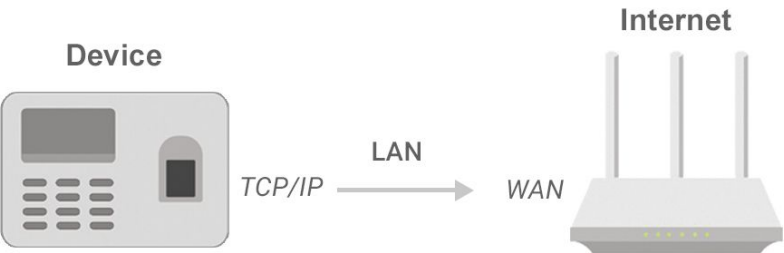
8. Click Save, then Save & Apply.



9. Connect the terminal device to the ECOP2P WiFi in Menu > Comm. > Wireless Network

1.1 RDMS – Built-in P2P Terminal Setup

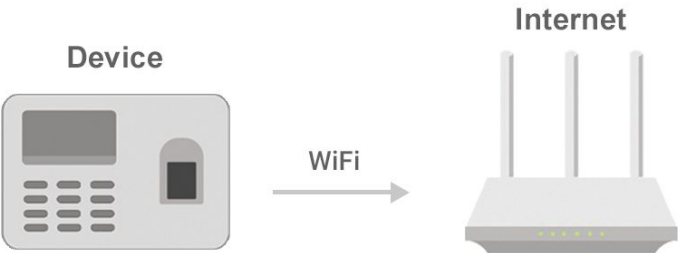
RDMS terminals connect directly to the Internet without a separate P2P device.



Option 1: LAN Cable Connection

- Steps:
- 1. Connect LAN cable from router to the terminal device.
  - 2. Power on the terminal.
  - 3. Navigate to: Menu > Comm. > Ethernet
  - 4. Choose one option:  
*Static IP:* Set IP Address, Gateway, and DNS with Internet access  
*DHCP:* Enable DHCP
  - 5. Set Comm Key (any value).
- Path: Menu > Comm. > PC Connection > Comm Key

Option 2: WiFi Connection (Model Dependent)



- Steps:
- 1. Navigate to: Menu > Comm. > Wireless Network
  - 2. Select your WiFi SSID.
  - 3. Go to: Menu > Comm. > Wireless Network > Advanced
  - 4. Choose one option:  
*Static IP:* Set IP Address, Gateway, and DNS  
*DHCP:* Enable DHCP
  - 5. Set Comm Key.
- Path: Menu > Comm. > PC Connection > Comm Key

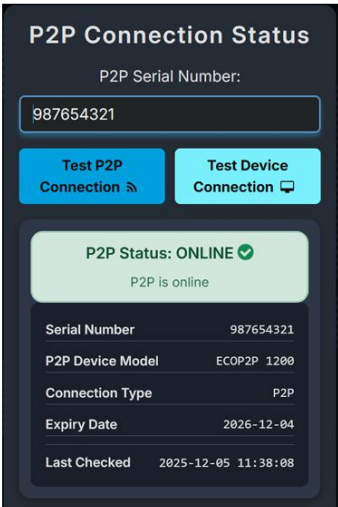
2.0 Testing P2P / RDMS Online Status

Option 1: Test Using Web Page

- A. Test Internet Connection
- 1. Visit: <https://portal.ecotimeprint.com/P2PConnection>
  - 2. Enter ECO P2P serial number.
  - 3. Click Test Connection.
- B. Test Terminal Device Connection
- 1. On the same page, enter ECO P2P serial number.
  - 2. Click Test Device Connection.
  - 3. Ensure:  
Port = 4370,  
Comm Key matches portal and device settings

Option 2: Test Using ECOTIMEPRINT ETA3

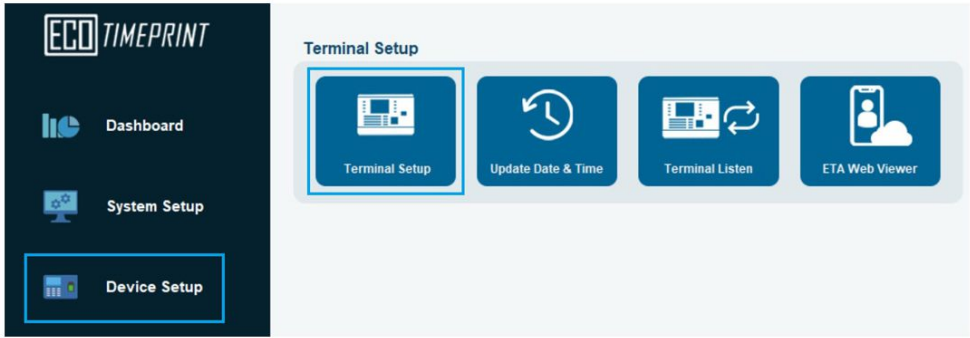
Refer to Section 3.0.



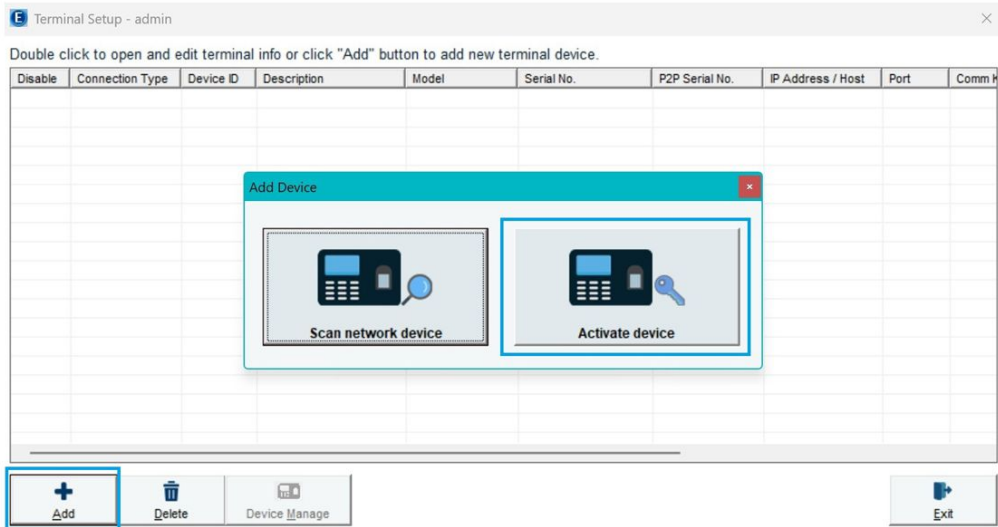


3.0 Adding P2P / RDMS in ECOTIMEPRINT ETA3

1. Go to: Terminal Setup > Device Setup



2. Click Add > Activate Device



3. Select Connection Type: P2P or RDMS

4. Key in and select:

- Description
- Terminal Serial number
- Device model

PLEASE ENTER YOUR TERMINAL INFORMATION

Connection Type: TCP/IP / Host

Description: Site A

Terminal Serial No.: 123456789

Model: SMART FACE Select Model DoorAccess Mode ☐

- P2P Serial No.
- Note: For RDMS, it only require Terminal Serial Number to connect

P2P Serial No.: 250112345

Comm Key: \*\*\*\* ☐

Device ID: 24

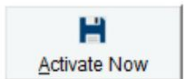


- Comm Key (Must match the one set up in terminal device)
- Device ID

6. (Optional) Click Test > Network Connection.



7. Click Activate.



8. You can now connect to terminal to manage users and download data

## **4.0 Troubleshooting**

**If ECO P2P or RDMS does not come online, please check the following:**

1. Plug the LAN cable from your internet source into a PC and confirm Internet access.
2. Ensure that Port 8024 is allowed and not blocked by your Internet router or firewall.
3. If DHCP is unavailable:
  - ECO P2P: Manually set IP in P2P router panel
  - RDMS: Set static IP on terminal device
4. Restart the device and wait 3–5 minutes.
5. Contact your vendor if the issue persists.

### **Notes**

1. To use IP address or port other than 10.0.0.201 and 4370, please contact your vendor.
2. Do not reset the ECO P2P device, as it will restore factory settings and require reconfiguration.