

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).

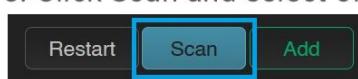


Option 2: ECO P2P – WiFi for Internet, LAN Cable to Terminal

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)
-40 dBm		7	Master		WPA2 PSK (CCMP)
-44 dBm	ECOTIMEPRINT	9	Master	78:20:51:ED:75:06	WPA2 PSK (CCMP)
-44 dBm		9	Master		WPA2 PSK (CCMP)
-44 dBm		9	Master		WPA2 PSK (CCMP)
-54 dBm		6	Master		mixed WPA/WPA2 PSK (TKIP, CCMP)
-59 dBm		9	Master		WPA2 PSK (CCMP)
-59 dBm		9	Master		WPA2 PSK (CCMP)
-59 dBm		9	Master		WPA2 PSK (CCMP)

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

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 "/> "/> "/>

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.

8. Click Save, then Save & Apply.

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

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

Option 3: ECO P2P – LAN for Internet, WiFi to Terminal

Use case: Terminal device connects wirelessly to ECO P2P.



Steps:

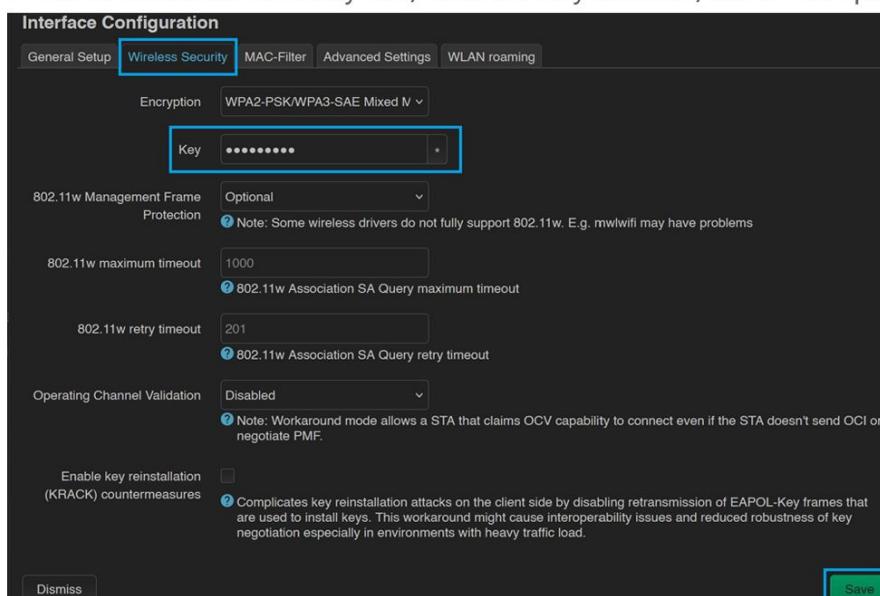
1. Power on ECO P2P and wait 3–5 minutes.
2. Connect your PC to ECO P2P using a LAN cable.
3. Log in to the ECO P2P router panel.
4. Go to Network > Wireless
5. Locate SSID: ECOP2P | Mode: Master and click Enable.



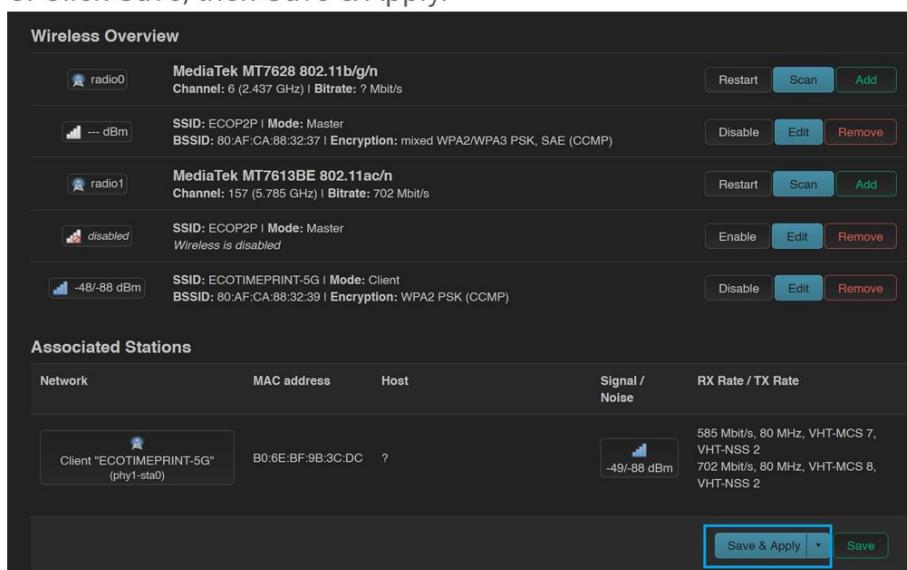
6. Click Edit.



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



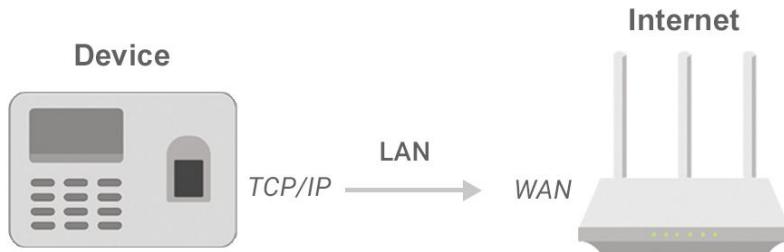
8. Click Save, then Save & Apply.



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.



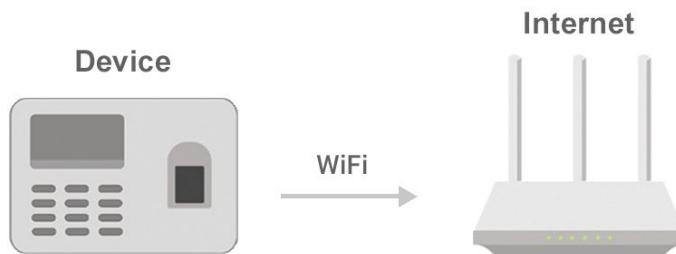
Option 1: LAN Cable Connection

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

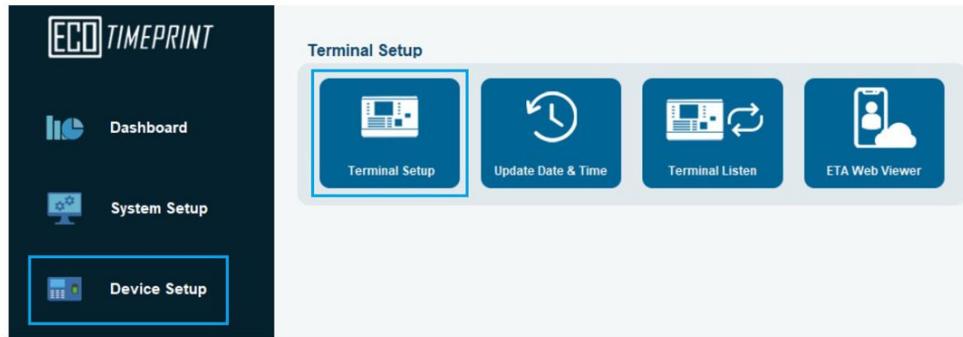


Option 2: Test Using ECOTIMEPRINT ETA3

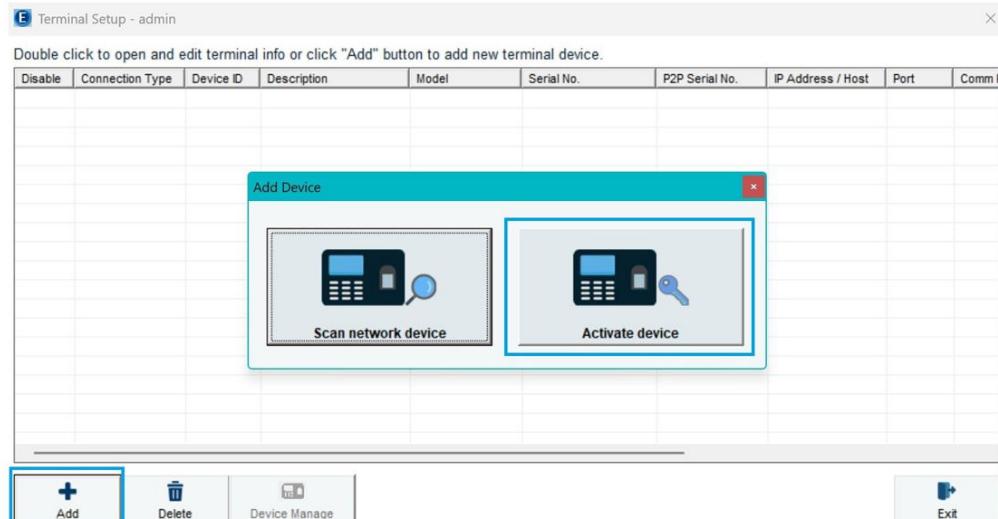
Refer to Section 3.0.

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
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.