Android Setup Guide

Contents

OVERVIEW 2

1. CONNECTION TO NETWORK 2

1.1 PAX A9XX Base configuration 2

1.2 Base connectivity 3

1.3 Terminal Direct 13

2. CONNECTION TO POS 21

3. TROUBLESHOOTING 28

Version 1.0, July 2024

Overview

The Pax A920 and the A920Pro can be connected to the POS or Linkly Cloud via several different ways. Such as via Ethernet, Wi-Fi or USB (RNDIS).

There are two integration types for the Pax device, one is via the Linkly Client (On-Premises) or Linkly Cloud.

Additionally the Pax device can be paired with the L920 base which enables the terminal to have more connectivity functionality such as USB (RNDIS), Ethernet and charging dock.

1. Connection to Network

1.1 PAX A9XX Base configuration

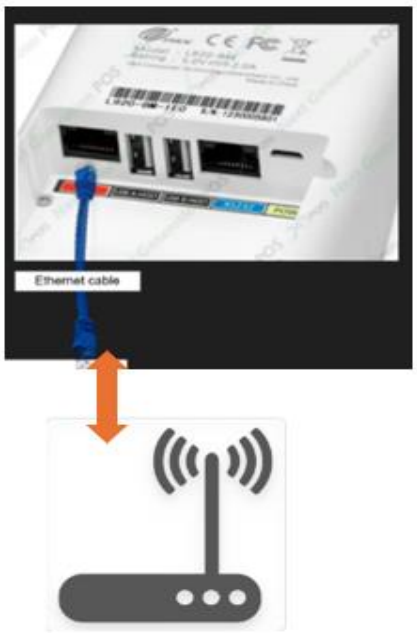
This base model has built in Wi-Fi, Ethernet and USB connectivity functionality. The base is used as an Access Point for the terminal to connect to the network via the base Wi-Fi.

Note: PAX devices A920, A920Pro and A910s bases are not cross compatible

1.2 Base connectivity

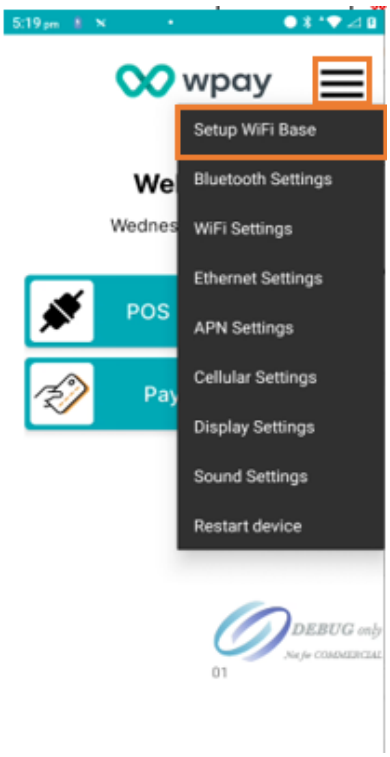
Base Ethernet

1. Connect the L920 base to power using the socket on the back of the device.
2. Plug the Ethernet cable into:
   a. The LAN port on the back of the L920 base.
   b. The LAN port on the back of the Router AP.

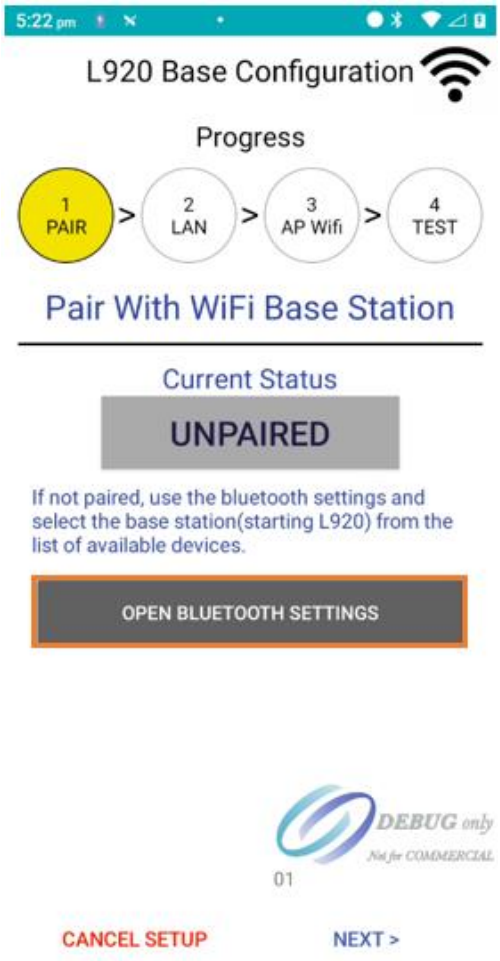


3. On the terminal display, tap the hamburger menu (three lines) on the top right.

4. Select the menu option ‘Set up Wi-Fi base’.

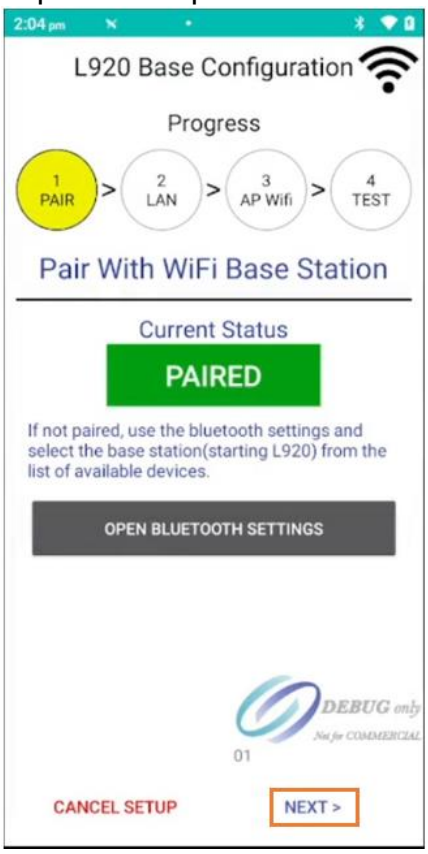


5. Under ‘Current status’, tap on ‘Open Bluetooth Settings’.
6. Tap the toggle to turn on the Bluetooth.
7. Select the base from the list of available devices.
8. The device name will start with ‘L920xxx’ and include the base serial number.

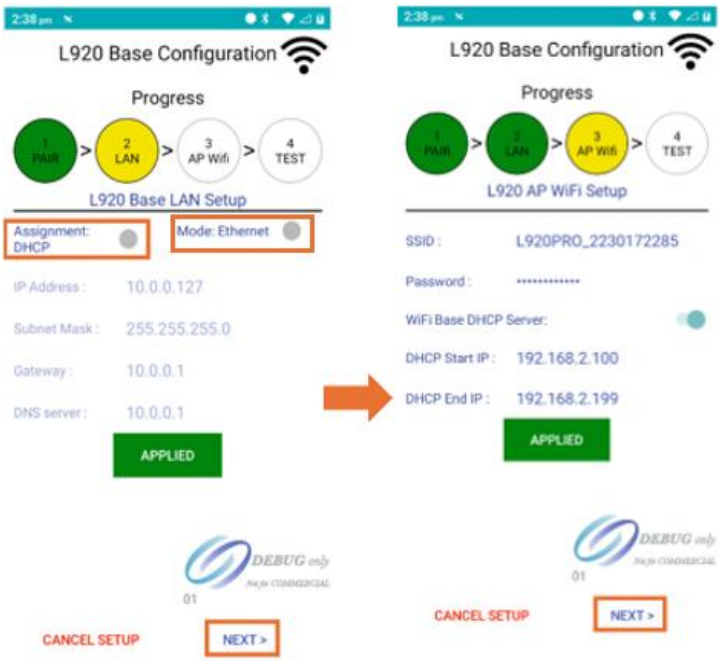


9. The base will now be populated under ‘Paired Devices’.

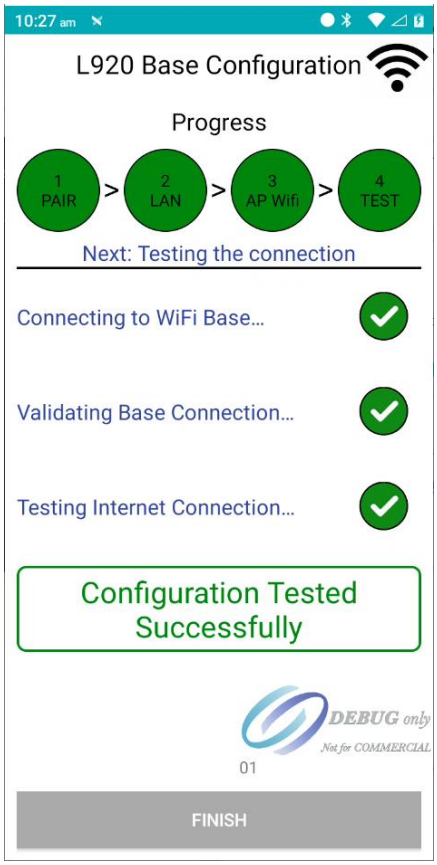
10. Tap ‘back’ arrow and the connection status should change to ‘Paired’.
11. Tap ‘Next’ to proceed.



12. Make sure ‘Assignment: DHCP’ and ‘Mode: Ethernet’ is OFF and tap ‘NEXT’ to proceed.
13. Tap on ‘Apply Network Settings’; once complete the ‘Apply Network Settings’ button should read “APPLIED”. (This can take up to 30 seconds).
14. Tap on ‘Next’



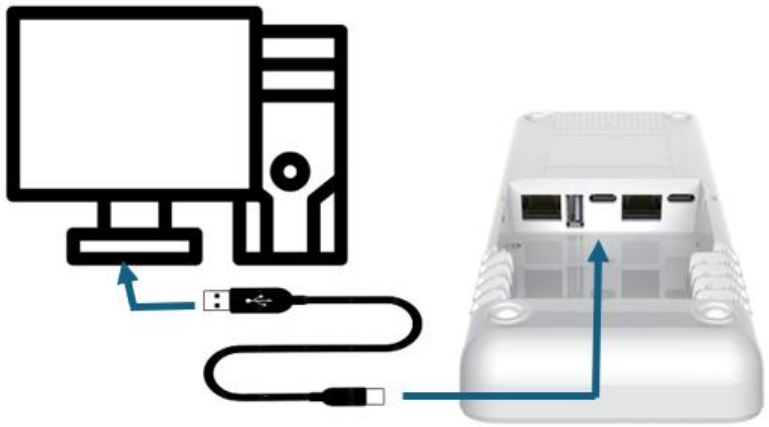
15. If tests all indicate a green check, then the Pax A920 with the L920 base has been setup and is ready to use.
    Press the Finish button to return to the Linkly Launcher.



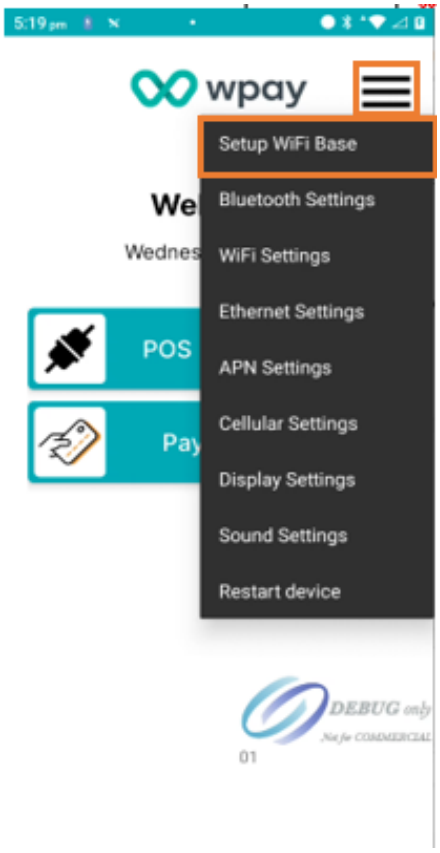
16. Ensure the terminal is placed onto the base to receive the LAN connection.

Base USB cable (RNDIS)

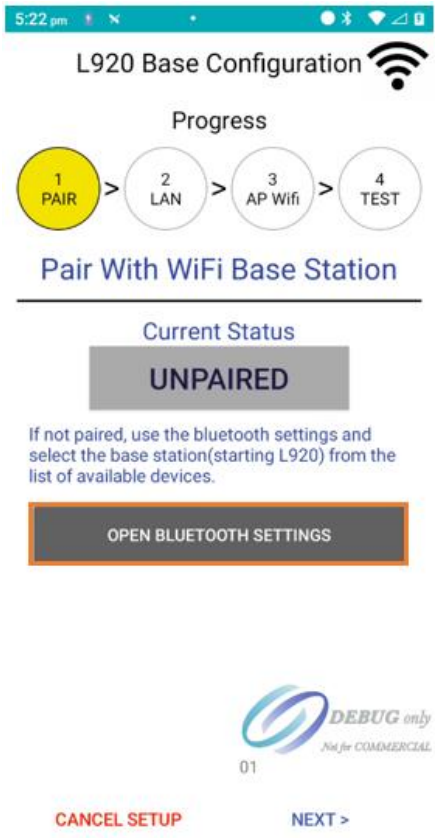
1. Connect the base to power using the power socket on the back of the base.
2. Plug the USB cable into the USB slave port on the back of the base.
3. Place the terminal in the base



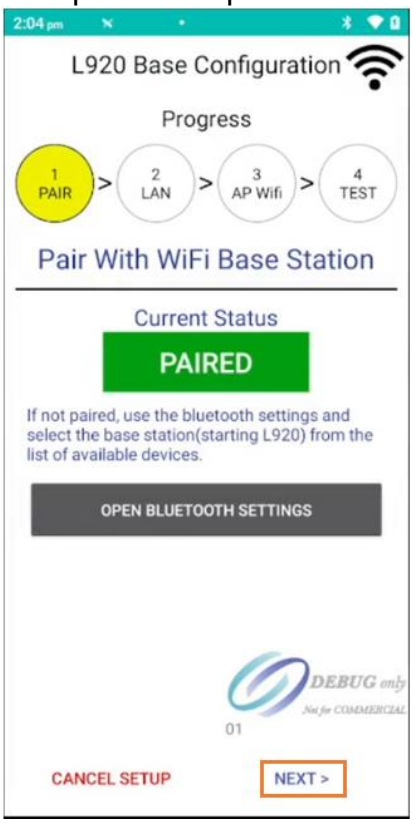
4. On the terminal display, tap the hamburger menu (three lines) on the top right.
5. Select the menu option ‘Set up Wi-Fi base’.



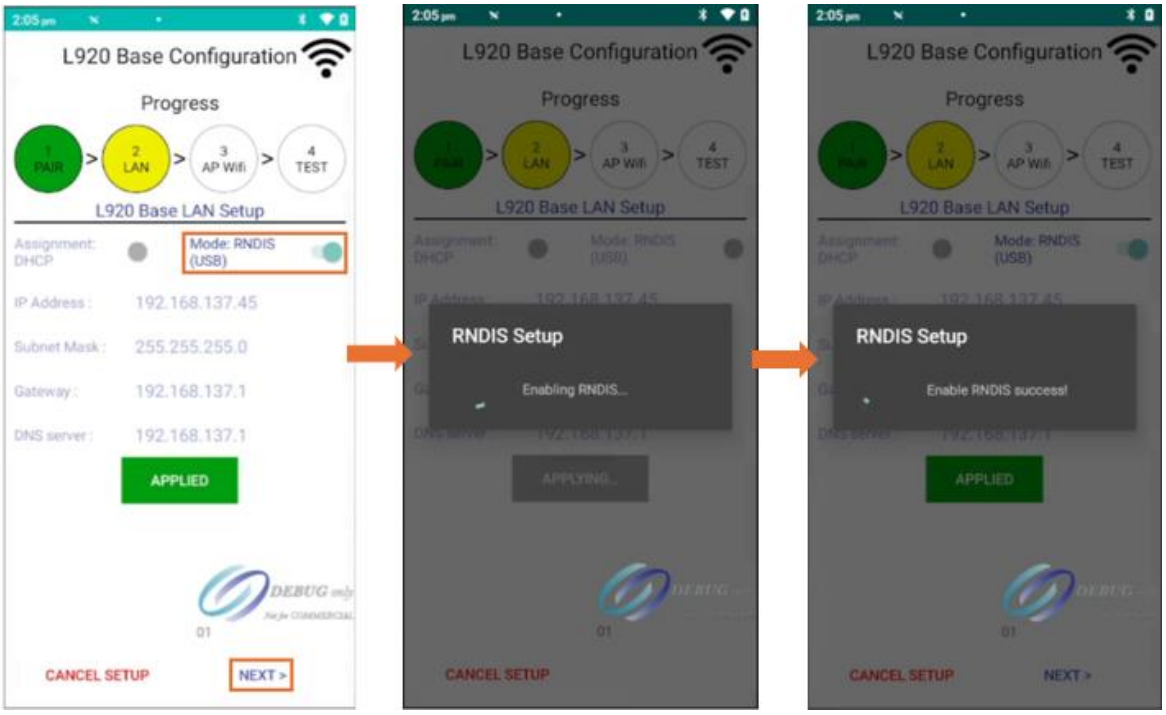
6. Under ‘Current status’, tap on ‘Open Bluetooth Settings’.
7. Tap the toggle to turn on the Bluetooth.
8. Select the base from the list of available devices.

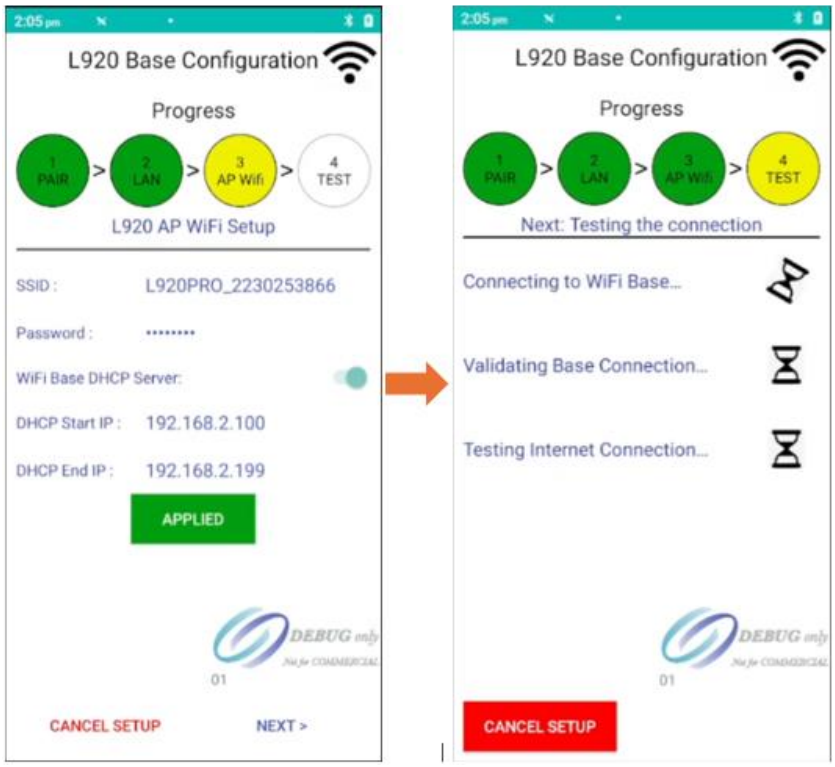


9. The base will now be populated under ‘Paired Devices’.
10. Tap ‘back’ arrow and the connection status should change to ‘Paired’.
11. Tap ‘Next’ to proceed.

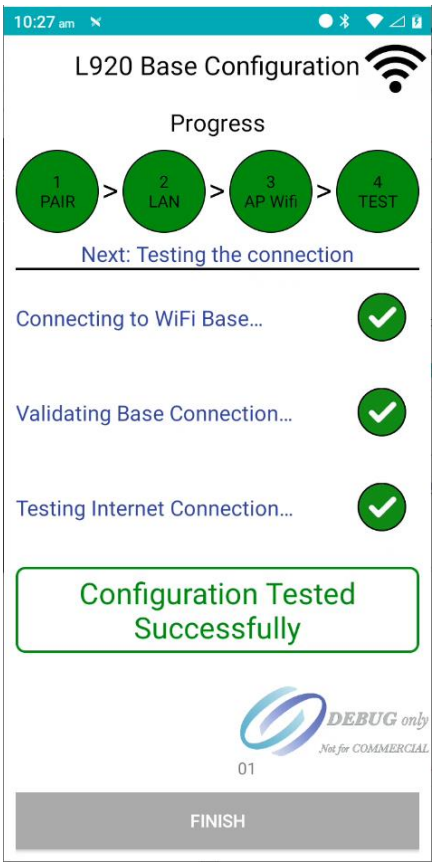


12. Make sure ‘Assignment: DHCP’ OFF and ‘Mode: Ethernet’ is ON and tap ‘NEXT’ to proceed.
13. Tap on ‘Apply Network Settings’; once complete the ‘Apply Network Settings’ button should read “APPLIED”. (This can take up to 30 seconds).
14. Tap on ‘Next’





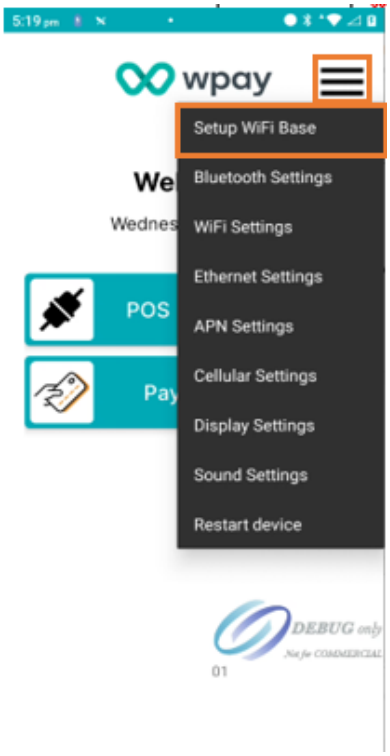
15. If tests all indicate a green check, then the Pax A920 with the L920 base has been setup and is ready to use.
    Press the Finish button to return to the Linkly Launcher.



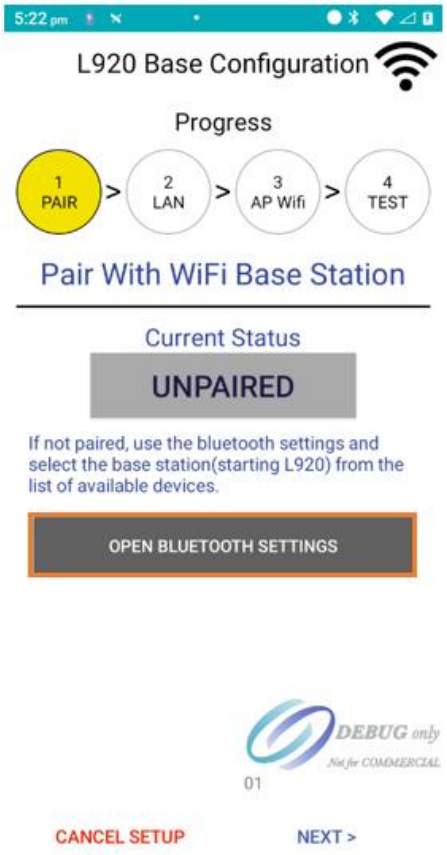
16. Ensure the terminal is placed onto the base to receive the LAN connection.

Base Pairing

1. Connect the L920 base to power using the socket on the back of the device.
2. Select the menu option ‘Set up Wi-Fi base’.

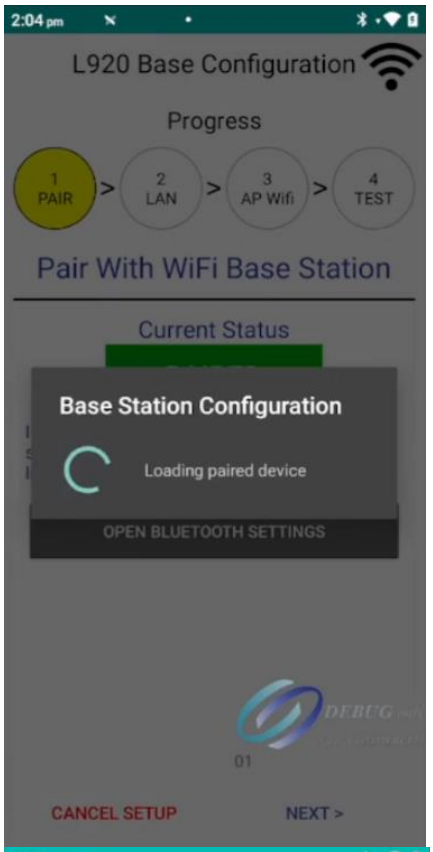


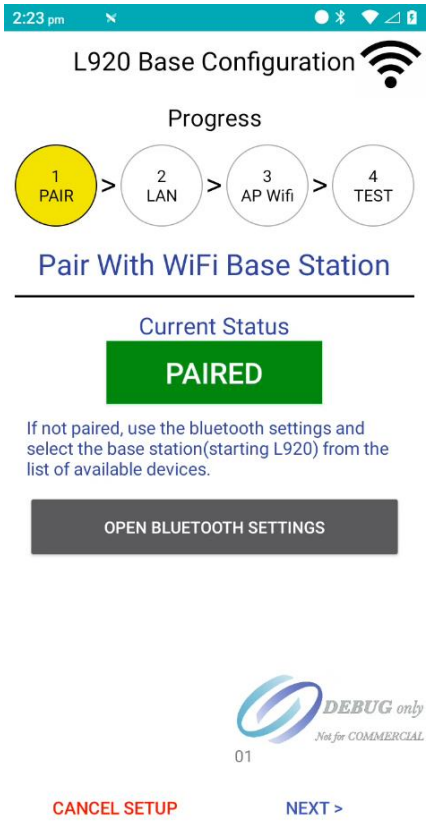
3. Under ‘Current status’, tap on ‘Open Bluetooth Settings’.

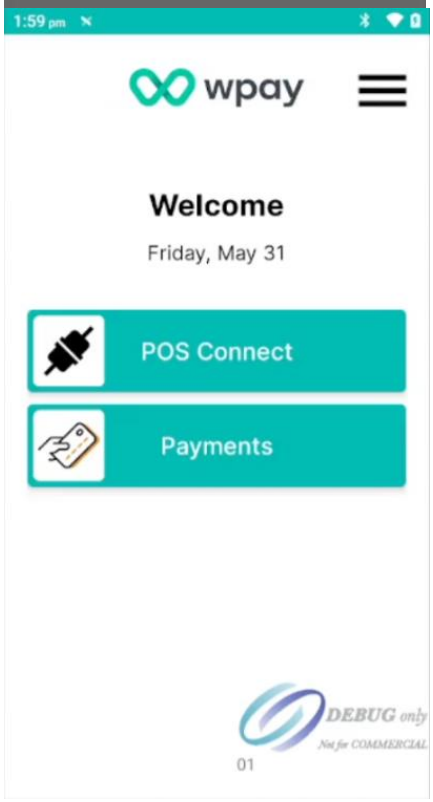


4. Tap on ‘Pair new device.’
5. Select the base from the list of available devices.
6. The device name will start with ‘L920xxx’ and include the base serial number.

7. The base will now be populated under ‘Paired Devices’.
8. Tap ‘back’ arrow and the connection status should change to ‘Paired’.
9. Tap ‘Cancel Setup’ to exit to Launcher.





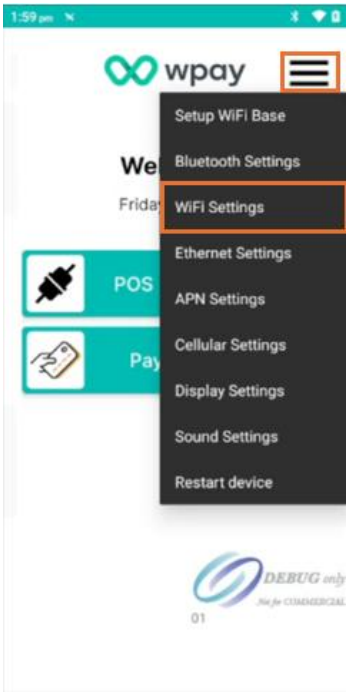


1.3 Terminal Direct

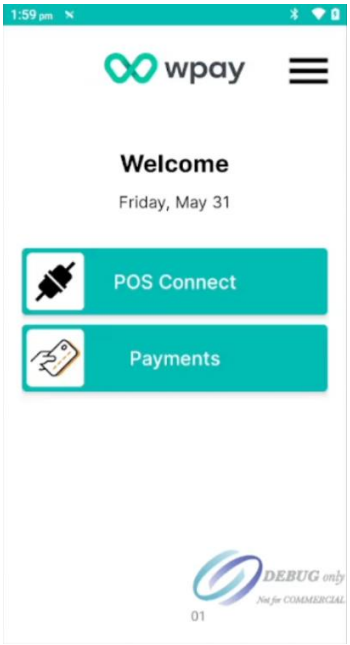
WIFI Setup

The PAX devices can be connected directly to the local Wi-Fi access point (AP) or using the L920-BE base (via Ethernet cable).

1. On the terminal display, tap the hamburger menu (three lines) on the top right.
2. Select 'Wi-Fi Settings' and choose the desired secure network and enter the password if necessary and 'Connect'.



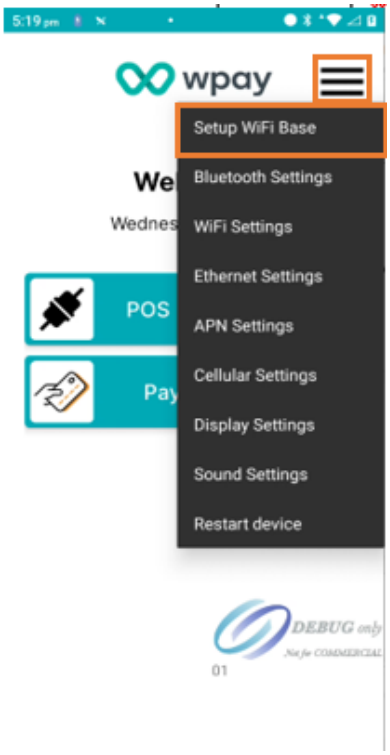
3. PAX device is now connected to Wi-Fi.
4. Tap back button to get back to Launcher Menu.



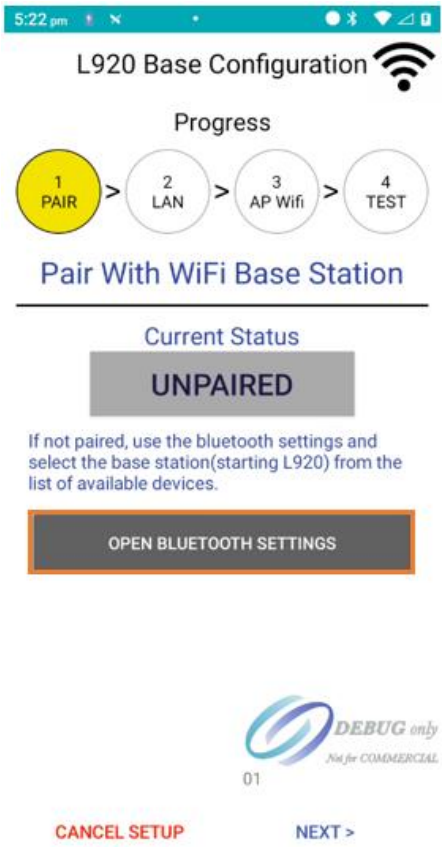
Ethernet (A80)

1. Connect the L920 base to power using the socket on the back of the device.
2. Plug the Ethernet cable into:
   a. The LAN port on the back of the L920 base.
   b. The LAN port on the back of the Router AP.

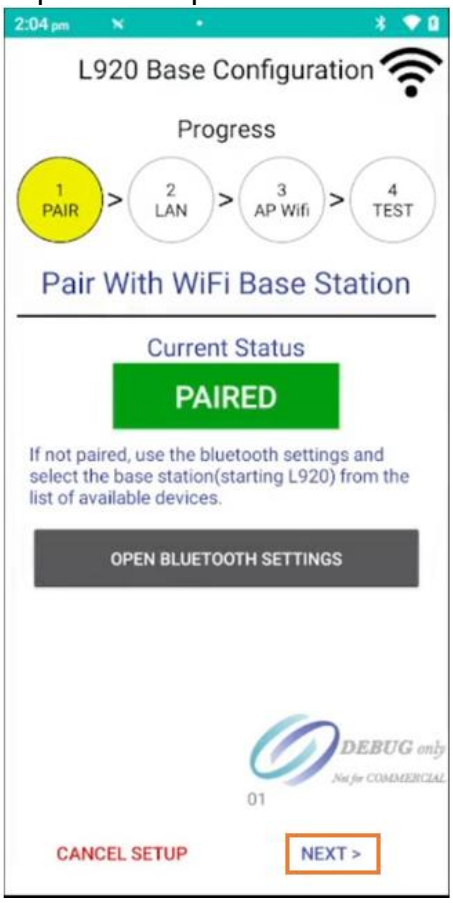
3. On the terminal display, tap the hamburger menu (three lines) on the top right.
4. Select the menu option ‘Set up Wi-Fi base’.



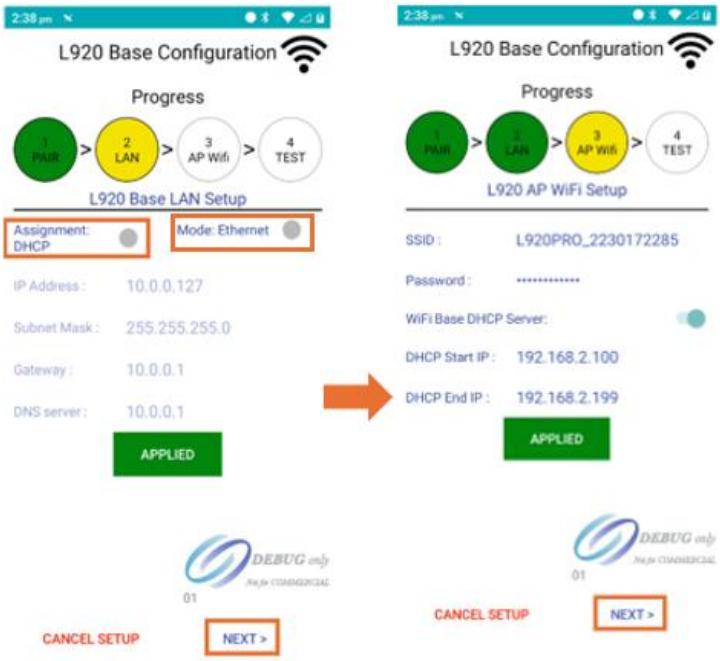
5. Under ‘Current status’, tap on ‘Open Bluetooth Settings’.
6. Tap the toggle to turn on the Bluetooth.
7. Select the base from the list of available devices.
8. The device name will start with ‘L920xxx’ and include the base serial number.



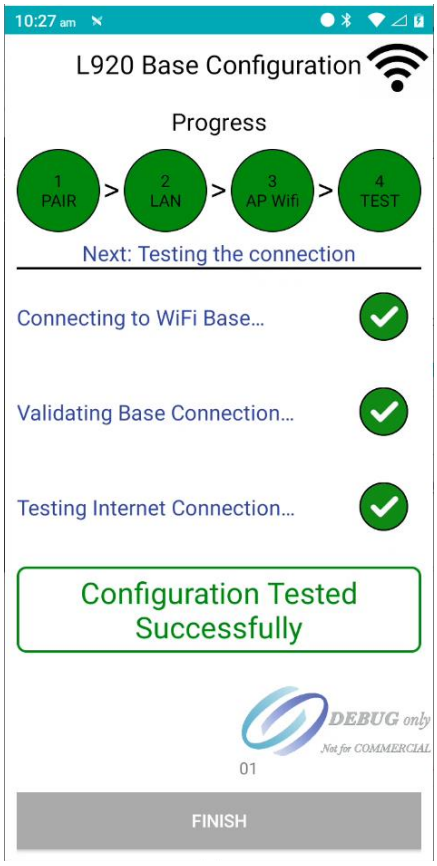
9. The base will now be populated under ‘Paired Devices’.
10. Tap ‘back’ arrow and the connection status should change to ‘Paired’.
11. Tap ‘Next’ to proceed.



12. Make sure ‘Assignment: DHCP’ and ‘Mode: Ethernet’ is OFF and tap ‘NEXT’ to proceed.
13. Tap on ‘Apply Network Settings’; once complete the ‘Apply Network Settings’ button should read “APPLIED”. (This can take up to 30 seconds).
14. Tap on ‘Next’

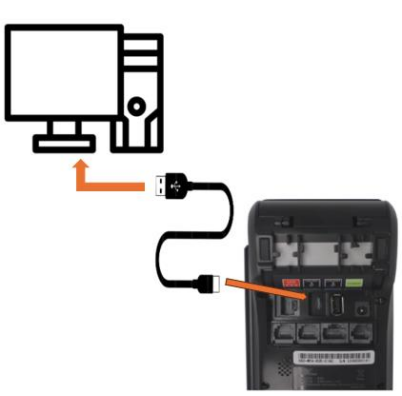


15. If tests all indicate a green check, then the Pax A920 with the L920 base has been setup and is ready to use.
    Press the Finish button to return to the Linkly Launcher.

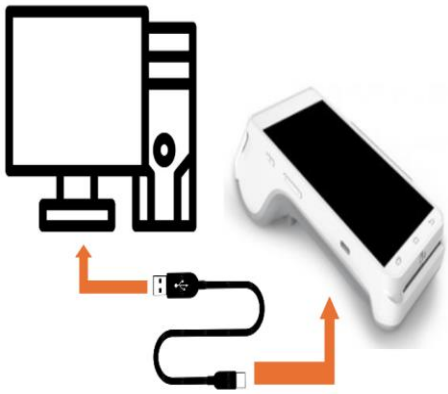


USB

1. Connect the base to power using the power socket on the back of the base.
2. Plug the USB cable into the USB slave port on the back of the base.
3. Place the terminal in the base

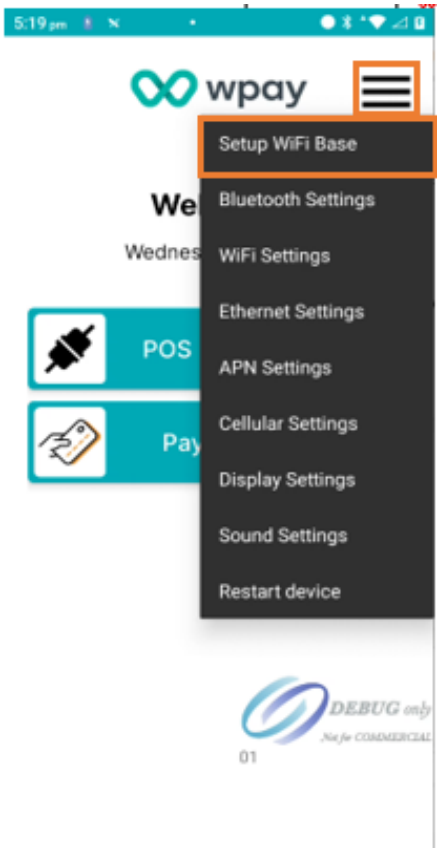


(A80)



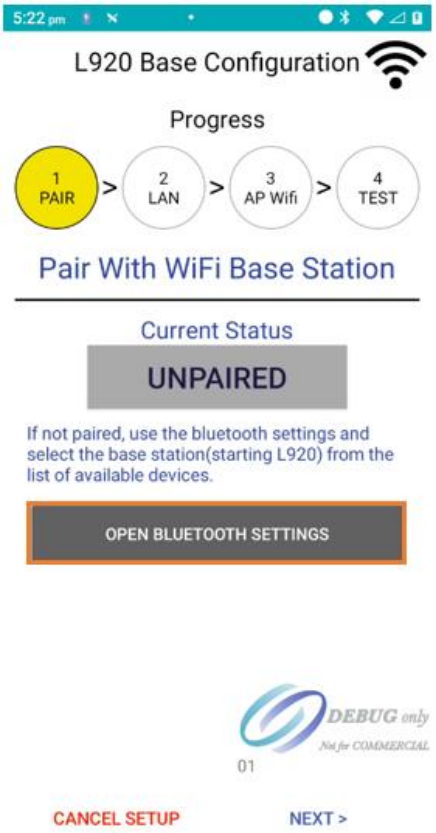
(A920)

4. On the terminal display, tap the hamburger menu (three lines) on the top right.
5. Select the menu option ‘Set up Wi-Fi base’.

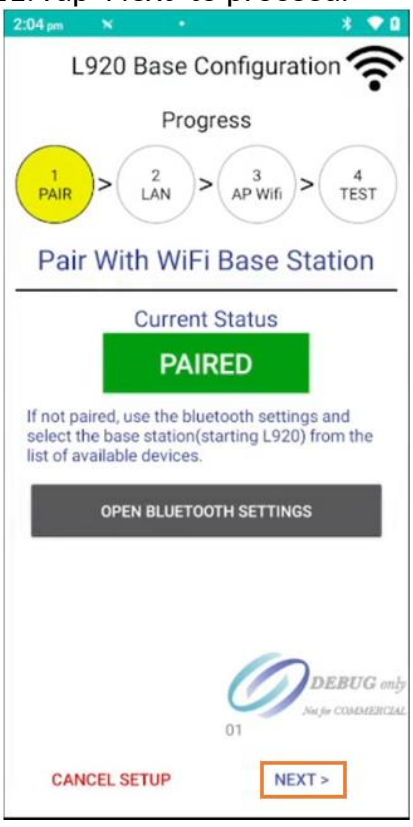


6. Under ‘Current status’, tap on ‘Open Bluetooth Settings’.
7. Tap the toggle to turn on the Bluetooth.

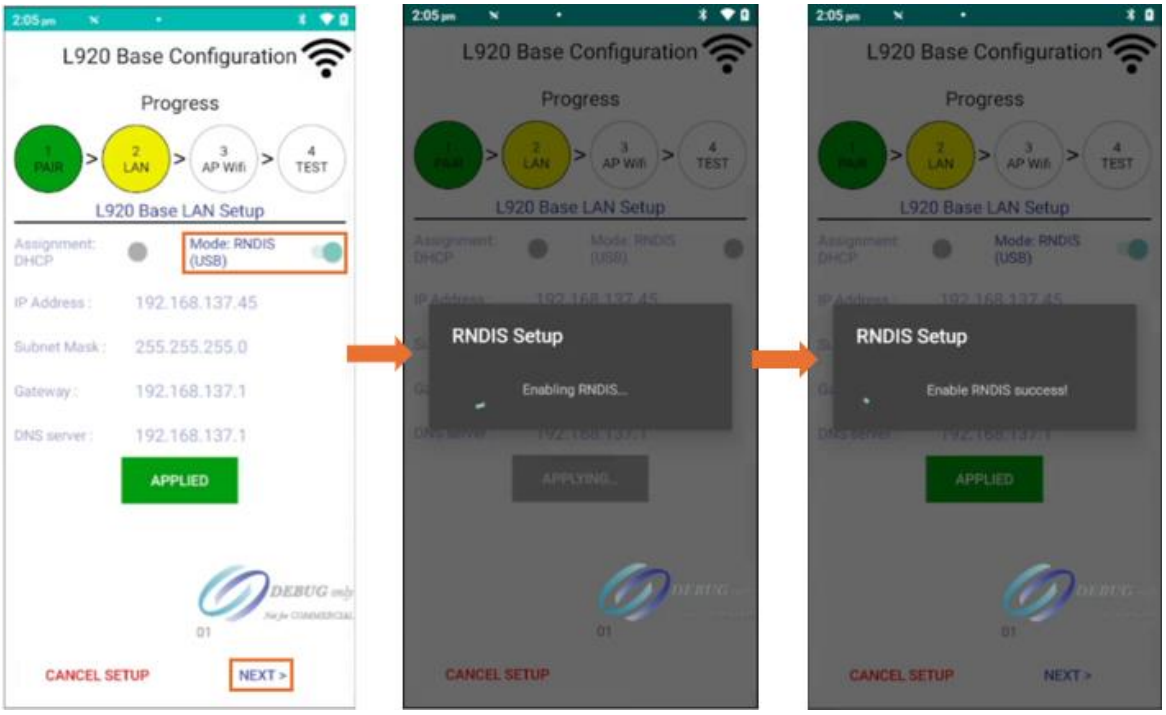
8. Select the base from the list of available devices.

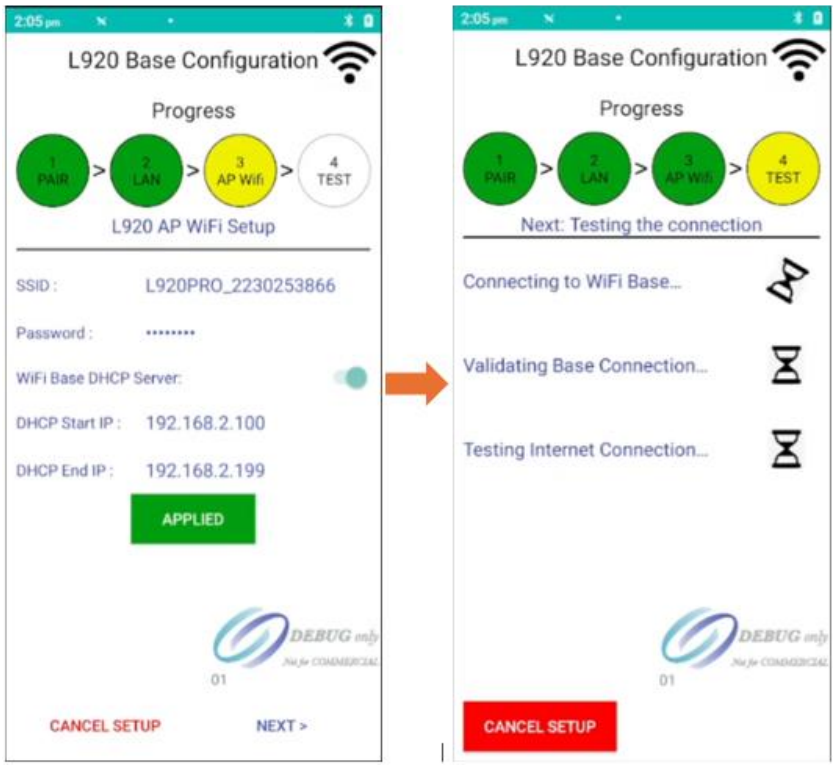


9. The base will now be populated under ‘Paired Devices’.
10. Tap ‘back’ arrow and the connection status should change to ‘Paired’.
11. Tap ‘Next’ to proceed.

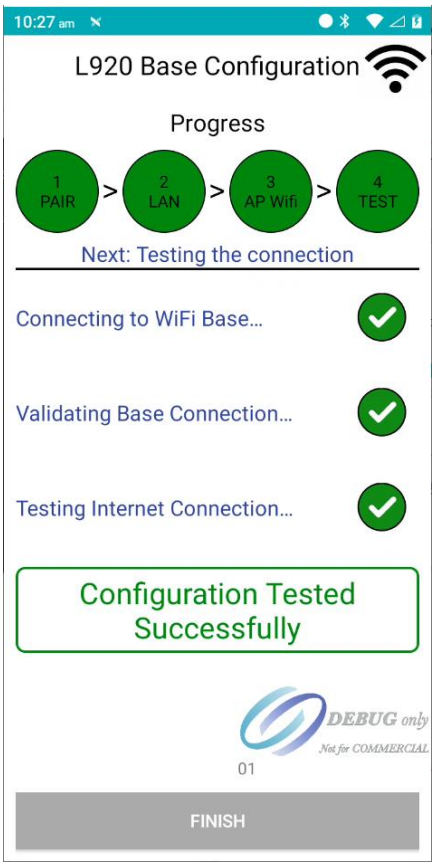


12. Make sure ‘Assignment: DHCP’ OFF and ‘Mode: Ethernet’ (RNDIS) is ON and tap ‘NEXT’ to proceed.
13. Tap on ‘Apply Network Settings’; once complete the ‘Apply Network Settings’ button should read “APPLIED”. (This can take up to 30 seconds).
14. Tap on ‘Next’





15. If tests all indicate a green check, then the Pax A920 with the L920 base has been setup and is ready to use.
    Press the Finish button to return to the Linkly Launcher.



2. Connection to POS

The Pax A920 can be linked with a Point of Sale (POS) system in either On-Premises or Cloud mode from the terminal.
The mode selected should depend on the POS system. Windows-based POS generally use On-Premises mode, whereas Android, iOS, and web-based POS typically use Cloud mode.

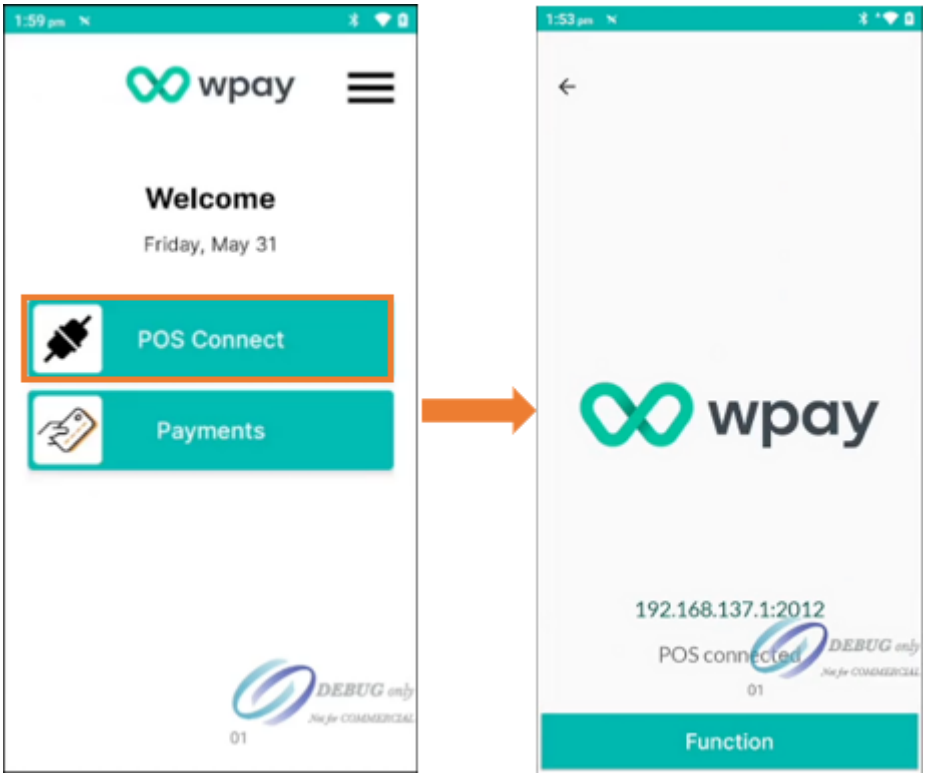
If the Pax A920 is attempting to connect via the On Premises method, then it can be integrated to the POS system via Ethernet, Wi-Fi or USB (RNDIS).

To be able to connect your terminal to the POS, the POS needs to install the Linkly Client. It can be downloaded at https://linkly.com.au/resources-support/software/ and follow the documentation provided by your vendor.

Linkly Connect App

The Linkly Connect App allows the terminal the ability to configure the devices connection method. From this, Cloud or On-Prem mode can be enabled, additional settings such as POS IP address for TCPIP Connection types and Cloud pairing.

The Connect App settings can be access from the Launcher by pressing 'POS Connect'.



To configure the terminal to use either Cloud or On-Prem, follow the steps below:

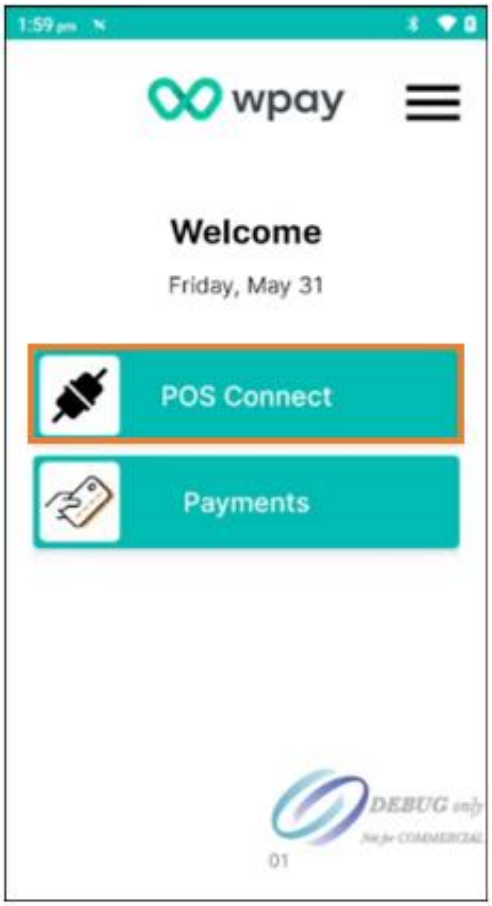
1. Tap 'Function' and enter '1111 2227' in the function field.

   a. For Cloud, tap ‘Use Cloud Connection’. This will default to ‘pp.cloud.pceftpos.com’ via port 443.
2. For On-Premises, toggle off ‘Use Cloud Connection’ (switch should be grey).
3. Change the ‘POS address’ to the IP of the POS that is running the Local Linkly Client. (This can be found from running ‘ipconfig’ from the host PC).
4. Confirm the ‘Port Number’ is ‘2012’. (This is the default port that the terminal connects to the Client over).
5. Once connection, the Connect App will display ‘POS Connected’. If not, please follow the troubleshooting steps at the end of this document.

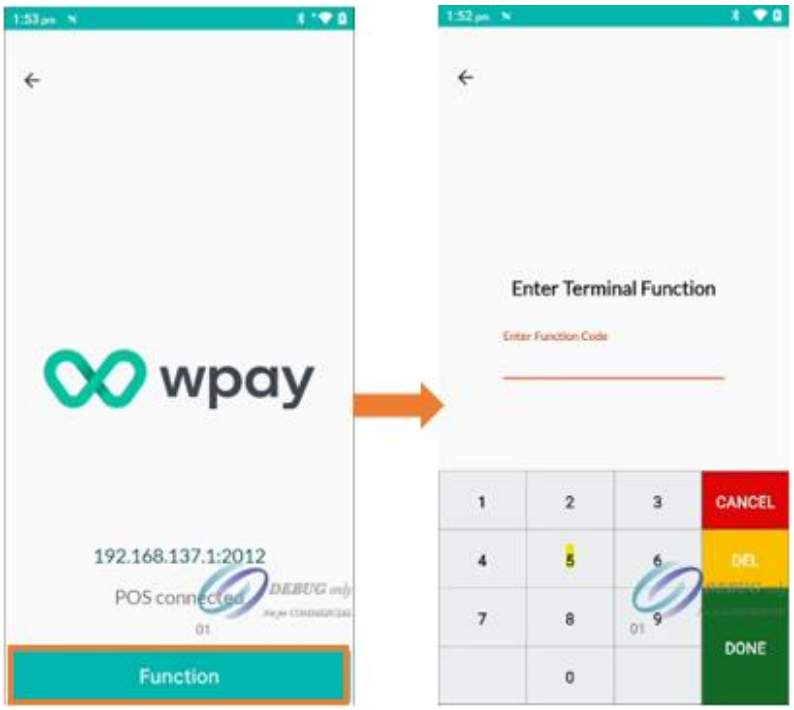
On-Premises (TCP/IP)

The Pax device can connect to the Client via Wi-Fi, Ethernet or USB (RNDIS) via TCP/IP. This establishes a direct TCP/IP link from the Pax terminal to the Linkly Client.

1. From the terminal, select ‘POS connect’ from the terminal home screen.



2. Select 'Function', when prompted, enter the function code ‘1111 2227’.



3. For On-prem mode only, use the "Change IP Address" button to set up the desired IP address (The POS system and the terminal must be running on the same network) for the Client to connect to the terminal.
    a. For direct-to-router ethernet, this should be the local IP address of the PC running your POS software.
    b. For USB-dongle (RNDIS), this should be the IP address assigned to the USB-dongle's network adaptor (typically 192.168.137.1).

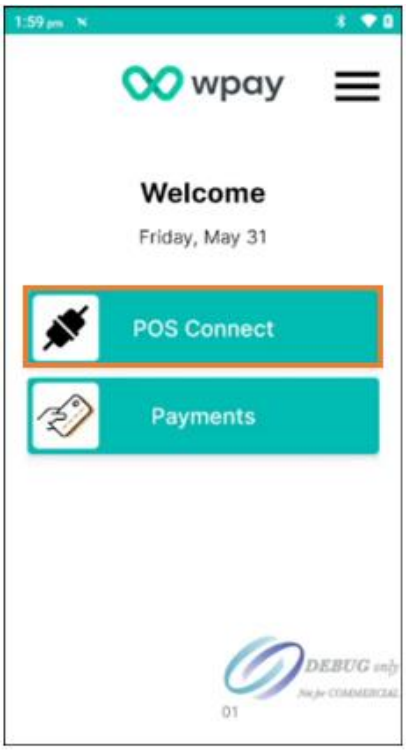
4. By default, the Linkly software listens for terminal communications on port 2012, leave this on 2012.
5. Once configured, select ‘Back’.
6. The status of the connection should display above the ‘Function’ button. Check that the terminal is successfully connected by performing a Logon and test transaction from the POS.

1:53
wpay
192.168.137.1:2012
POS connected
DEBUG only
01
Function

Linkly Cloud

Note: Ensure the Linkly Cloud credentials are on hand and the Pax device is connected to the Internet via Wi-Fi, Ethernet or USB (RNDIS).
To start:

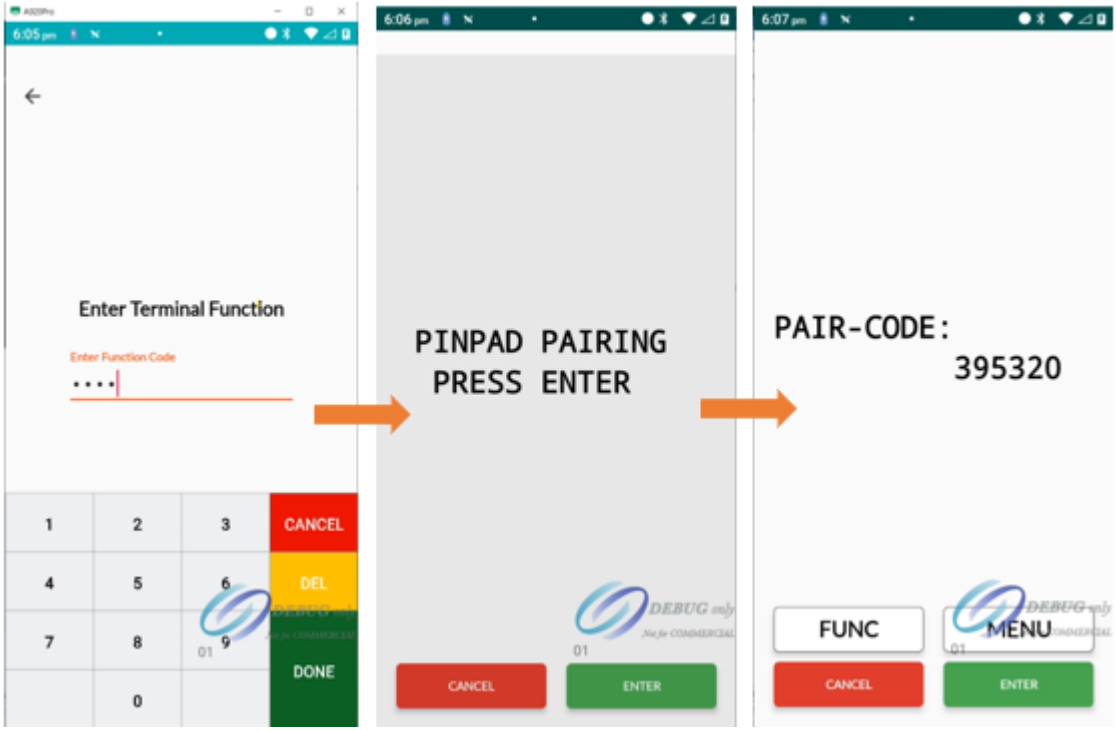
1. Navigate to the Linkly Cloud setup screen within the POS application.
2. Key in the Linkly Cloud credentials (username and password) into the POS.
3. Select ‘POS connect’ from the terminal home screen then tap 'Function'.



4. When prompted, enter the function code ‘1111 2227’.

5. Toggle on 'Use cloud connection' then tap the back arrow.

6. Tap on ‘Function’ and enter ‘8880’ to generate a 6-digit pairing code. (The code will expire after 90 seconds).



7. On the Linkly Cloud setup screen within the POS, enter the pairing code. Check that ‘Cloud logon success’ is displayed on the screen.
8. Check that the terminal is successfully paired by performing a logon and test transaction from the POS.

3. Troubleshooting

Common Terminal Function Codes

These functions codes can be entered into the ‘POS Connect’ menu.

- **1111 2227** – Configures the terminal communication methods (Cloud or On-Prem).
- **42071** – Performs a network diagnostic test.
- **8880** – Generates a Cloud pairing code (resets is device is already paired).
- **9999** – Exits out of the Linkly Connect App (brings the device to the main menu).

Computer (PC)

Make sure that the Pax L920 base has both the power cable and cable (ethernet or USB) connected to the base.

Important note: This step is not required if operating the terminal in On Premises integrated mode as the Linkly software installer automatically installs the required driver.
Make sure the correct RNDIS driver is installed, this can be checked within ‘devmgmt.msc’ > ‘Network Devices’. The driver present should be PAX 1.0.0.1.

Internet Connection Sharing

To enable Internet Connection Sharing, go to 'Network Connections' on the PC, right click on the desired network connection and select ‘Properties’ and select the ‘Sharing’ tab. Select ‘Allow other network users to connect’ and then ‘OK’.
If not sharing for any other means, then it is pertinent to restrict Internet Connection Sharing to the RNDIS Network Adapter.

To confirm internet connection sharing is set up correctly, plug the USB cable into the USB slave port on the back of the base. Check for an unidentified Ethernet connection e.g. ‘Ethernet 3’. Right click on the Ethernet connection and select ‘Properties’ then select ‘Internet Protocol Version 4’.
Confirm that the Ethernet connection has the PC’s IP address.

Linkly RNDIS Service

Ensure that the Linkly RNDIS service is running, this can be found in ‘Services.msc’ labelled ‘LinklyRndisService’.

- Ensure RNDIS service is running
    - Open Windows ‘Services’
    - Ensure ‘LinklyRNDISConfigService’ has status ‘Running’
- Pax base should have both a power cable and cable that runs to POS machine
- Reconnect Payment Terminal Cable
    - Unplug USB cable to base / pinpad
    - wait 10s
    - plug USB cable back in