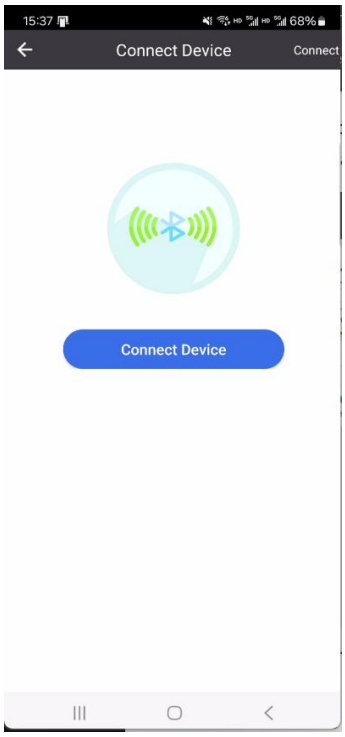
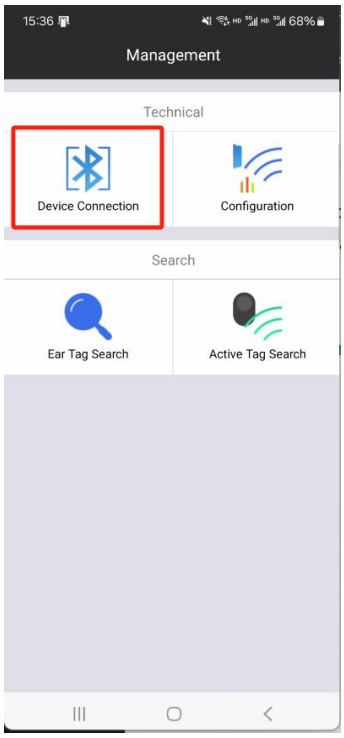
# User Manual of RFID IOT APK

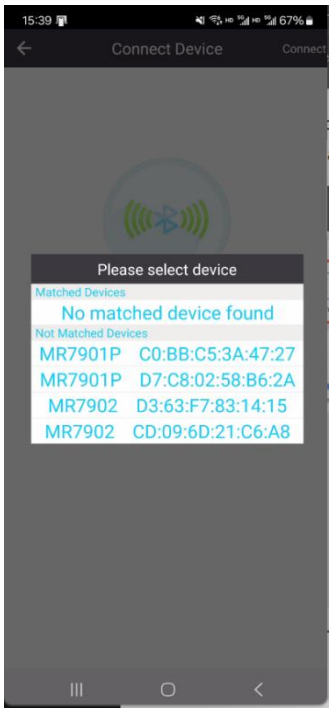
This APK based on Android OS. Android version 4.0.3 and above version supports.
Download App from below QR:

FRID IOT：v2.2.0

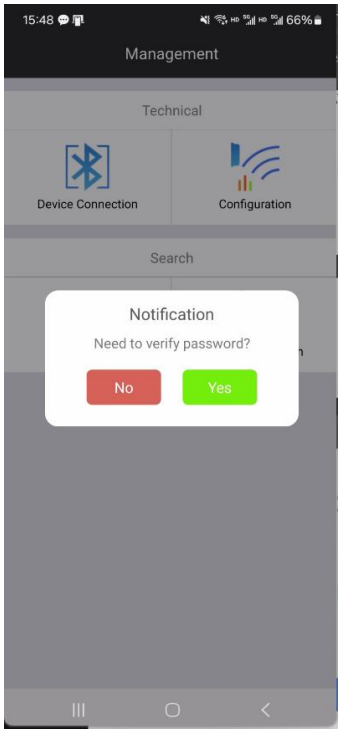
Before connect RFID devices, make sure Mobile phone Bluetooth opened. （Android 10 and above need to turn on Bluetooth and location）



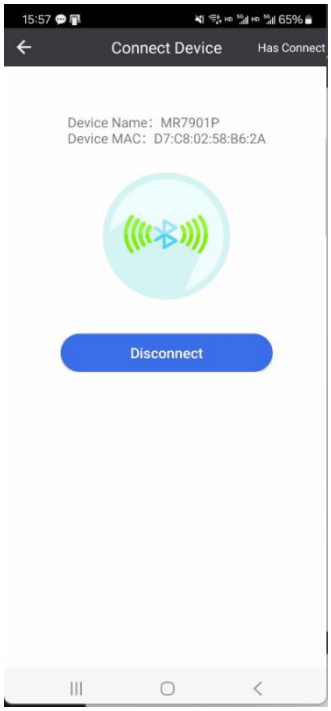

Choose the correct device MAC. Device will be connected automatically without any password.(Note: If request mach password, you can use 1234)

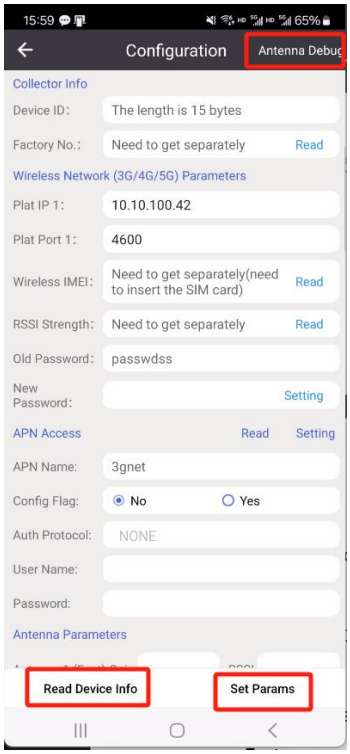



If reader is encrypted version, choose Yes to input password, if not, choose No. For Bluetooth encrypted version, the default password is *passdss*

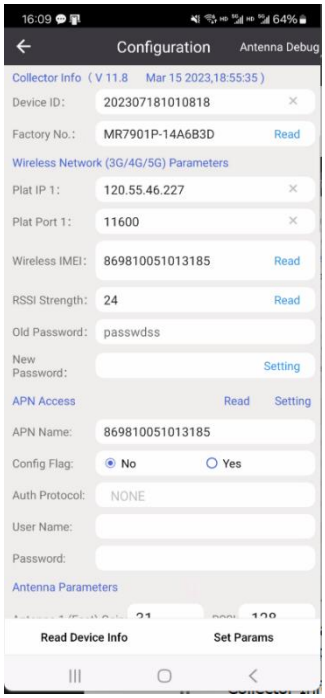
After this, you can config RFID reader parameters, Antenna parameters, Platform info ect.

After connect success, you will see these info on Device Connection page:






On Configuration page, Read Device Info to get all parameters of reader. Some info need get separately.




## Collector Info

V11.8 this is software version of reader

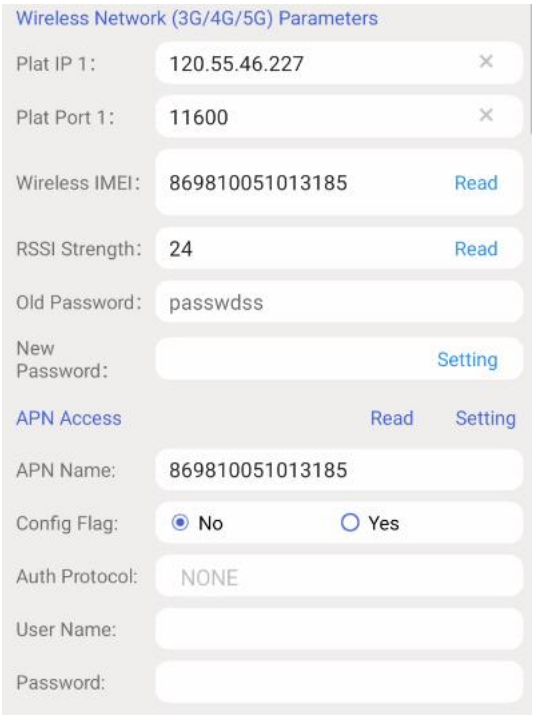
Mar 15 2023, 18:55:35 this is the time of software version

Device ID:This 15bytes ID of reader

Factory No.: is the model of device, should to get separately.

## Wireless Network (3G/4G/5G) Parameters

4G is backward compatible with 3G and 2G. The 5G function is reserved.




Plat IP 1 and Plat Port 1 is the target/object server parameters.

Port range 0 to 65535

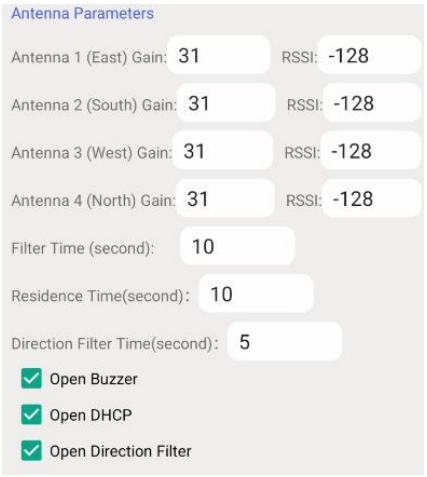
RSSI Strength is the signal strength of 4G.

RSSI range 0 to 31, 00 or 99 indicates no GPRS signal.99 indicates failure to read GPRS signal.

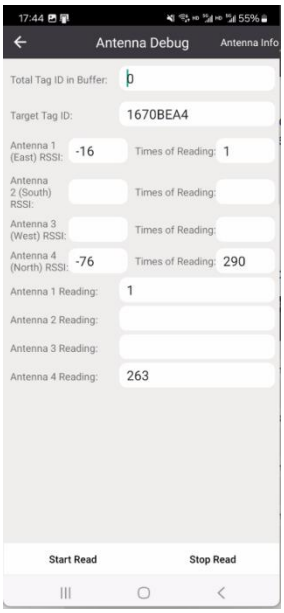
## APN Access

This part is for APN parameters set. Get this info from local  cellular service provider.

## Antenna Parameters




When click read device info button, this antenna parameter will display current parameters value. These parameters can be set manually.  After set new value, you can use Antenna Debug option( on the upper-right corner) to check each antennas working status.




Click Antenna Info (upper-right corner) can check antennas information.

Gain range 0~31(Reserved)

RSSI range -128~0

RSSI range used to filter tag data, if tag RSSI value less than current value, tag data will be filter. In other words, Set -128, antenna will reach MAX reading range, Set 0, will be MIN reading range. Different environment may vary.

Filter Time value range 0~65526

Within current value, same tag ID just transfer once.

Residence time value range 0，60~65535

Within current value, same tag ID just transfer once.

Direction Filter Time (Reserved)

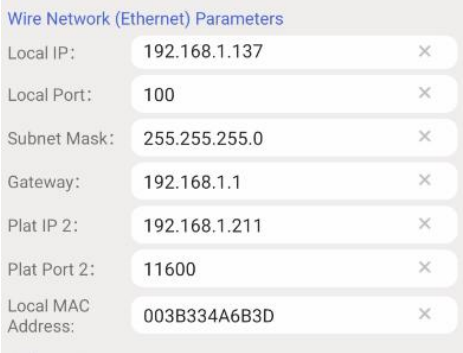
Open Buzzer for readers that supports Buzzer

Open DHCP

Turn on DHCP without setting the local IP of the device

Open Direction Filter (Reserved)

## Wire Network (Ethernet) Parameters




This part used for reader support TCP/IP interface and TCP/IP connecting.

Plat IP 2 and Plat Port 2 is the target/object server parameters.

Port range 0 to 65535

## Collector Status

System time: real network time

Network status

This part is to check the communication status of reader and target/object server. Wireless or Wire. Connect success or not connect.

Wireless connect IP

Check wireless network status

Wire connect IP

Check wire network status

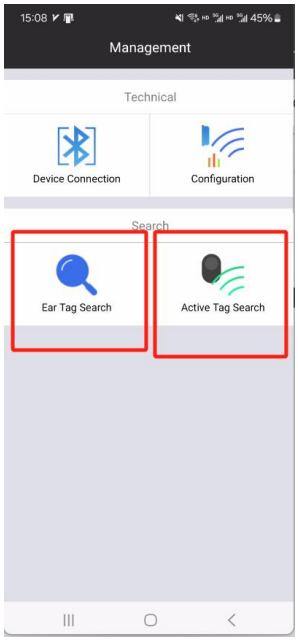
Total ID in buffer

To check how many tags on reader's buffer.

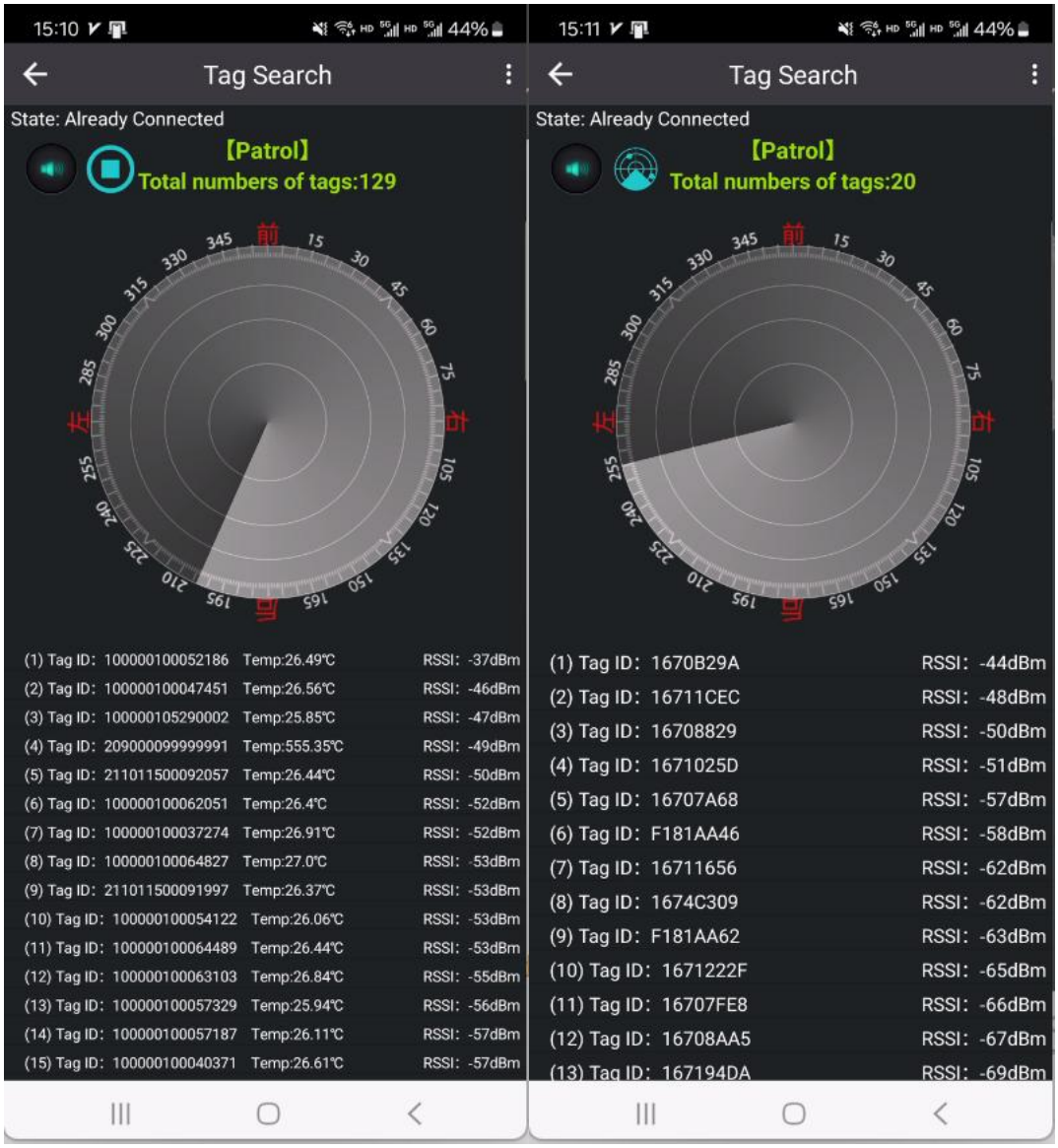
After set new parameters, should click Set Params option on the lower right.

Reader will restart automatically to make new parameters available.

(Tips, Plat IP 1 & Plat IP 2 should be exactly IP address, DNS not supports.)




For Cloud Livestock reader use the first Ear Tag Search to scan tags. Others use the second Active Tag Search.




Patrol for all tags reading and Search for exactly tag reading after Manage Tag ID.

The radar map is for display only and has no practical significance.

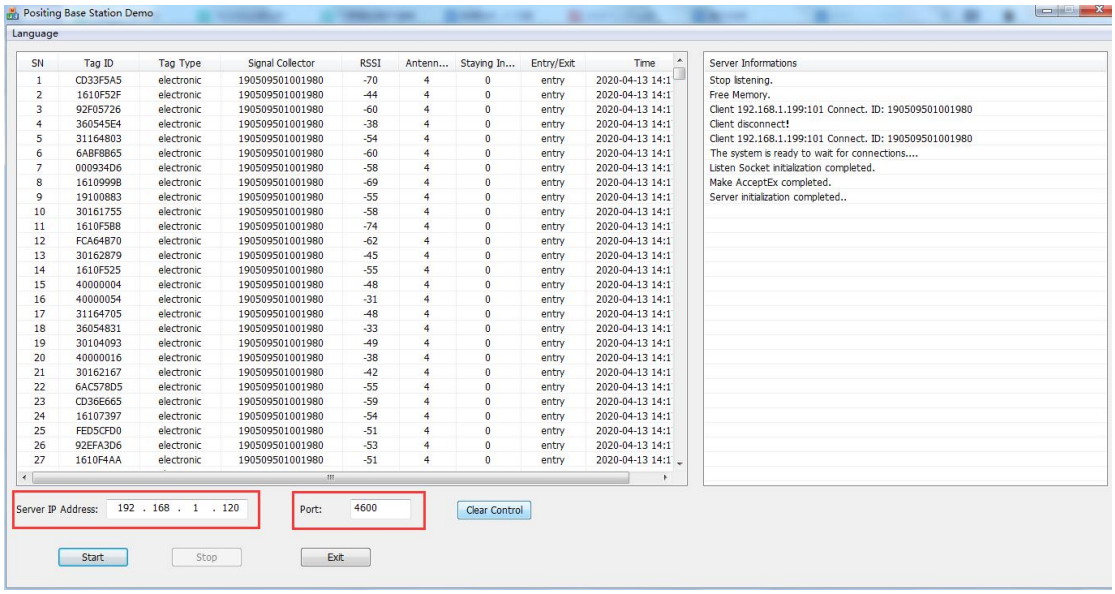
# Use Server Demo to check data

A, Use TCP/IP interface to check data.

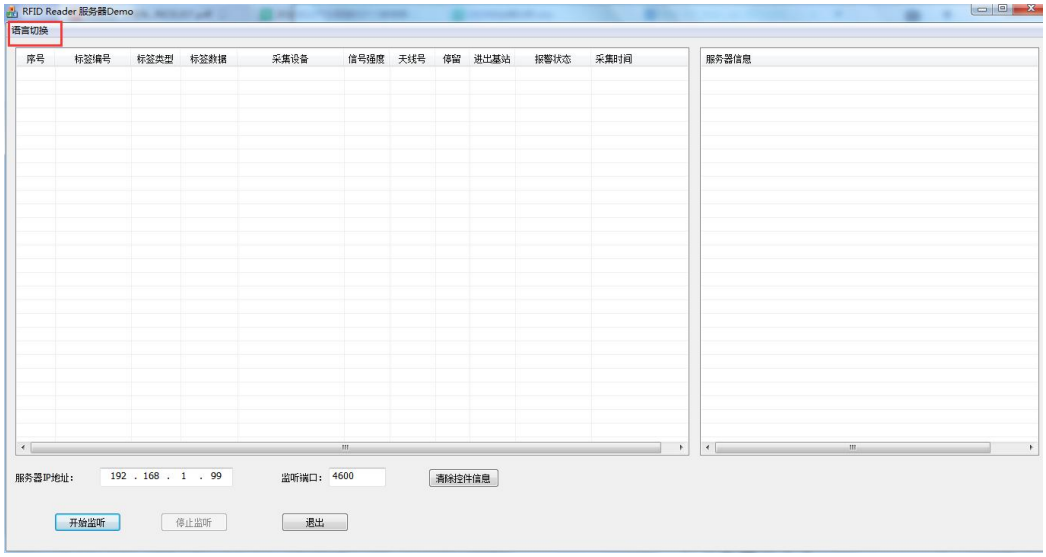
1, Use LAN cable connect reader to PC directly. (can also connect reader to exchange or router, but WiFi not supported)

2, Make sure the IP address of PC is static IP and set this IP to Reader ( Wire Network (Ethernet) Parameters, Plat  IP 2.

After Set Params, open the server demo and input the IP and port. Click Start button, reader will output data to server demo automatically.



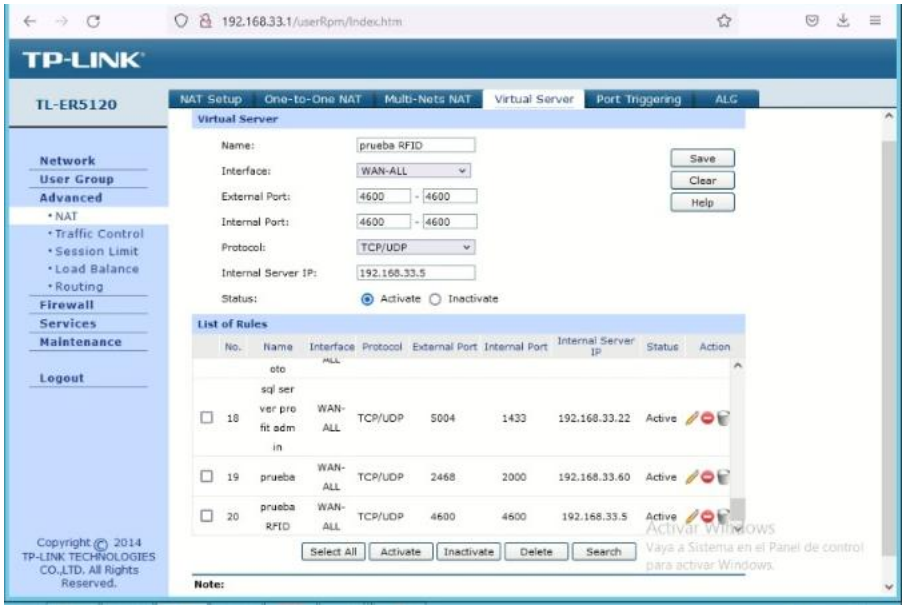

(switch language on upper left corner in cased opened in Chinese)



B, Use Wireless (4G) to do connection.

Set Server IP and Port to reader ( Wireless Network Parameters, plat IP 1)

Reader will send data to object Server automatically.

FAQ:

Some customer want to use local PC to testing Wireless 4G. Need set WAN Port on Router