

Proximity Tracing App: ANDROID VERSION

Installation Process:

Install the app “[CERTIFY.me](https://play.google.com/store/apps/details?id=com.certify.me)” from the Play Store.

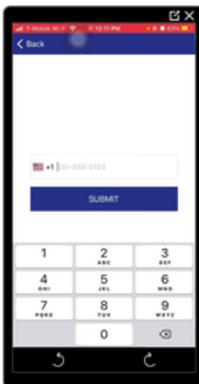
<https://play.google.com/store/apps/details?id=com.certify.me>.

- **Workflow of the Application:**

1. Once the app is installed, you will be directed to the “**Registration Code**” page. The code will be available in the Certify Portal under **Settings** → **Contact Tracing Settings** → “**Registration Code**”.



2. After entering the registration code, you will be asked to enter your **Contact Number**.

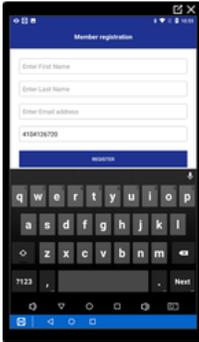


After entering the contact information, you will be directed to the “**Registration Page**” which has the following sections to be filled:

Enter First Name

Enter Last Name

Enter Email-id Phone Number



Fill all the details and click on the **SUBMIT** button found at the bottom.

3. After filling the details in the registration page, you will get the Enter OTP page where you will receive a 4-digit One Time Password to your given contact number. Enter the OTP and click SUBMIT found in the bottom of the page.



If you do not receive an OTP in the first attempt, then click “Resend OTP” where an OTP will be re-attempted to your contact information.

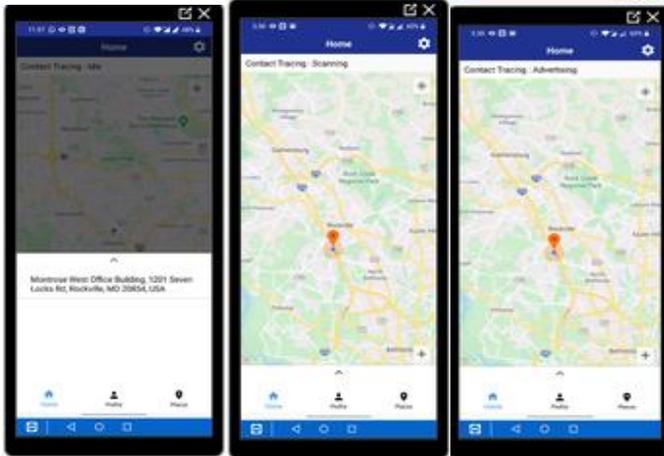


4. After Submitting the OTP, you will see the map screen which includes three sections found at the bottom of the page - Home, Profile and Places.

Home: In this page, you will find the current the location you are in. You will also see the section for Contact Tracing.

The process of Contact Tracing is **Contact Tracing: Idle**→ **Scanning** → **Advertising** → **Data Complete**.

The Contact Tracing status will initially be in Idle state and then update to Scanning phase, where it will start scanning for data. After scanning it will move to advertising and once the data is received it will show data completed.



Home page has another section called **Settings** In the top right corner of the home page. Make sure the parameters present in the settings are checked-in.

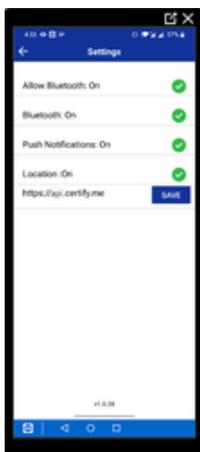
Allow Bluetooth: On

Bluetooth: On

Push Notifications: On

Locations: On

<https://api.certify.me> → this is the default environment in which the app will be present.



Profile:



Profile also has the following sections

Email: This will display the email you have provided in the registration page.

Phone: This will display the mobile number that you would have provided.

Reset: This feature will clear all the data and stop you from tracing your contact through certify me app. If you wish to reset, click the reset option and this will take you back to the registration page.

Logout: Click on logout will stop you from tracing your contact through certify me app

After you get the Contact Tracing status as “Data Complete”, the data (logs) will start appearing in the profile section at the top-right corner by clicking the “+” sign as highlighted in the above figure.

The logs will appear as shown in the below image. It will display the following data:

Date and time any device appeared in the given radius.

ModelC of the device



Places: This section will display the location that you update in the portal.



Proximity Tracing App: IOS VERSION

Installation Process:

1. Work - flow of the application:

Once the app is installed, you will get the “**Registration Code**” page. The code will be available in the Certify Portal under **Settings** → **Contact Tracing Settings** → “**Registration Code**”.



2. After giving the registration code, you will be asked to enter your **Contact Number**.



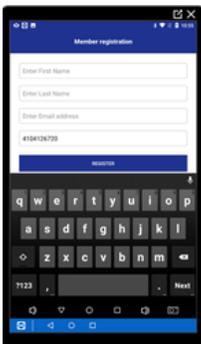
3. After entering the contact information, you will be directed to the “**Registration Page**” which has the following sections to be filled:

Enter First Name

Enter Last Name

Enter Email-id

Phone Number



Fill all the details and click on the **SUBMIT** button found at the bottom.

4. After filling the details in the registration page, you will get the Enter OTP page where you will receive a 4-digit One Time Password to your given contact number. When you receive the OTP, it will display “**OTP sent successfully**”. Enter the OTP and click **SUBMIT** found in the bottom of the page.



If you do not receive an OTP in the first attempt, then click “Resend OTP” where an OTP will be re-attempted to your contact information.



5. After Submitting the OTP, you will have a Map screen that includes three sections found at the bottom of the page - Home, Profile and Places.

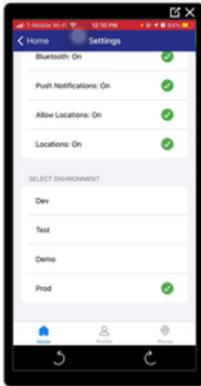
Home: In this page, you will find the current the location you are in. There is an option at the bottom of the Home icon at the top saying Contact Tracing.

In Contact Tracing, status will initially be in idle. When you open the app it starts and when the status is in started, the logs will get collected in the profile section.



Settings: This section is present in the right-hand corner of the Home page. It has two sections:

- **PERMISSION STATUS:** Make sure all the permission status parameters are given permissions.
Allow Bluetooth: On (Checked)
Bluetooth: On (Checked)
Push Notification: On (Checked)
Allow locations: On (Checked)
Locations: On (Checked)



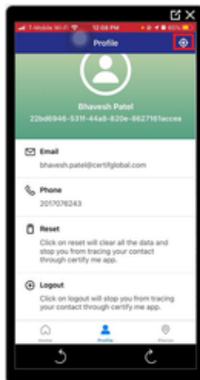
Profile: Profile also has the following sections

Email: This will display the email you have provided in the registration page.

Phone: This will display the mobile number that you would have provided.

Reset: This feature will clear all the data and stop you from tracing your contact through certify me app. If you wish to reset, click the reset option and this will take you back to the registration page.

Logout: Click on logout will stop you from tracing your contact through certify me app.

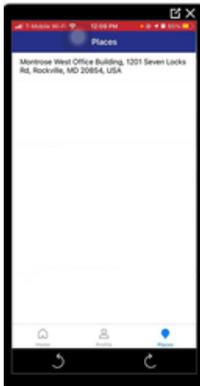


Once the app is open and starts scanning, data (logs) will start appearing in the profile section at the top-right corner by clicking the “+” sign as highlighted in the above image. The logs will appear as shown in the below image. It will display the following data:

Date and time any device appeared in the given radius.
ModelC of the device



Places: This section will display the location that you update in the portal.



Proximity Tracing App – Report

Proximity Tracing App report under reporting shows the data of the “[CERTIFY.me](https://www.certify.me)” app.

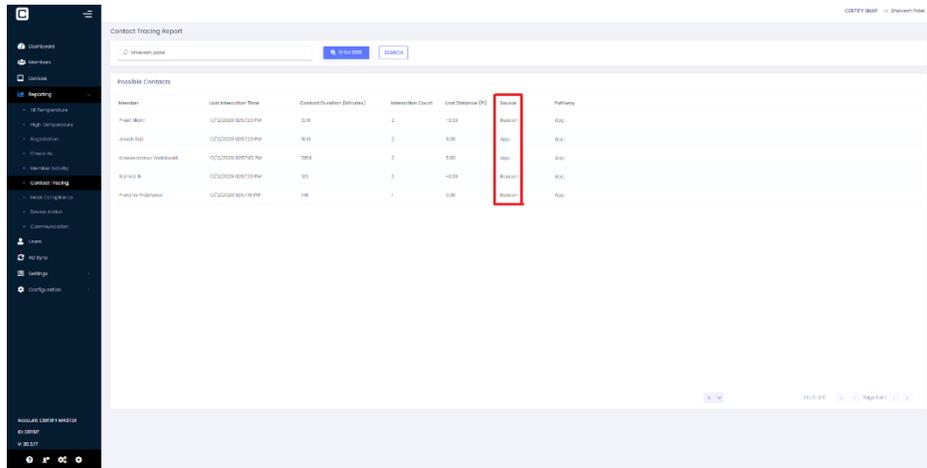
- Search Name: You can enter the members name who has logged into the device by editing the date and time. Click “SEARCH” tab.
- After clicking the search tab, other members who have logged into the device within the given radius will be seen. The following fields will be displayed:
 - **Member**
This displays the members who comes in proximity within the same given radius.
 - **Last Interaction Time**
This displays the recent interaction time
 - **Proximity Duration (in minutes)**
This displays the total time duration the members are near each other.
 - **Interaction Count**
This displays the number of times the members have come in proximity.
 - **Last Distance (Ft)**
This display the distance between the members.

- Source

It displays the source type, APP or Beacon

- Pathway

This displays the pathway in which the data is coming from.



The screenshot shows a mobile application interface with a sidebar menu on the left and a main content area. The main content area displays a 'Contact tracing report' with a search bar and a table of 'Possible Contacts'. The table has the following columns: Member, Last Interaction Time, Contact Duration (Minutes), Interactions Count, Last Distance (M), Source, and Pathway. The 'Source' column is highlighted with a red box. The data in the table is as follows:

Member	Last Interaction Time	Contact Duration (Minutes)	Interactions Count	Last Distance (M)	Source	Pathway
Pratik Mishra	12/22/2020 09:12:23 PM	15:30	2	12.20	Beacon	App
Aravind Raj	12/22/2020 09:57:33 PM	18:41	2	9.26	App	App
Aravind Aravind	12/22/2020 09:57:33 PM	18:41	2	9.26	App	App
Aravind R	12/22/2020 09:57:33 PM	18:41	2	9.26	App	App
Pratik Mishra	12/22/2020 09:12:23 PM	15:30	1	9.26	Beacon	App

Beacon Gateway Setup

Configuration Of the device:

1. Connect the **BLE & WiFi Gateway** to the respective device using USB to USB connector. Once it is connected, rainbow lights flickering constantly will be visible. This is the indication that the connection is through the USB to USB is done successfully.
2. Connect the Gateway to the device by disabling your respective WiFi connection and connecting it to the Gateway WiFi. The details of the connection is given below
Gateway Name Pattern: **GW-'MAC address for the gateway present behind the device'**
Sample Gateway: GW-AC233FC00017.
3. After the WiFi connection is successfully done, go to **chrome browser** and type the following URL: <http://192.168.99.1/>.
4. The **Login** Page will be displayed as shown in the image. For the first set up, the Username will be **“Admin”** by default and the Password can be given as anything.

LOGIN



5. Once you are redirected to the gateway dashboard, in the in the four-squared box “**Status**” section, create you own password in “**New Password**” and click on “**Apply**”.

The screenshot shows a network configuration page with a blue header containing four tabs: Status, Network, Service, and Other. The 'Status' tab is selected and highlighted with a red box. Below the header, the following information is displayed:

Firmware Model	g1-b
MAC	AC:23:3F:C0:00:17
NetworkMode	wireless
ETH WAN IP	N/A
WLAN WAN IP	10.0.14.59

Below this information is a section titled 'AP CONFIGURATION' with a blue arrow icon. This section contains the following fields:

- AP SSID:** A text input field containing 'GW-AC233FC00017', highlighted with a red box.
- AP LAN IP:** A text input field containing '192.168.09.1'.
- AP Password:** A password input field with a toggle icon on the right.

Below these fields is a blue 'Apply' button. Underneath is a section titled 'ADMIN PASSWORD' with a blue arrow icon. This section contains the following fields:

- New Password:** A password input field with a toggle icon on the right, highlighted with a red box.
- Confirm Password:** A password input field with a toggle icon on the right, highlighted with a red box.

Below these fields is another blue 'Apply' button.

APP SSID: This section displays the WiFi name to which you are connected.

6. Go to “**Network**” section and select the option “**Wireless**” for the WiFi. Once selected, the page will be displayed as shown below:

Status **Network** **Service** **Other**

Ethernet

Wireless

Profile list

<i>untitled (active profile)</i>	
ap_only	
untitled	

Available Access Point

C4354GO

ssid: C4354GO
bssid: 76:D9:E7:7B:AF:3E
encryption: none
signal: -51
channel: 3

SSID

C4354GO

BSSID ⓘ

76:D9:E7:7B:AF:3E

Encryption

No Encryption

Mode

dhcp

Revert to the previous configuration if auth fails

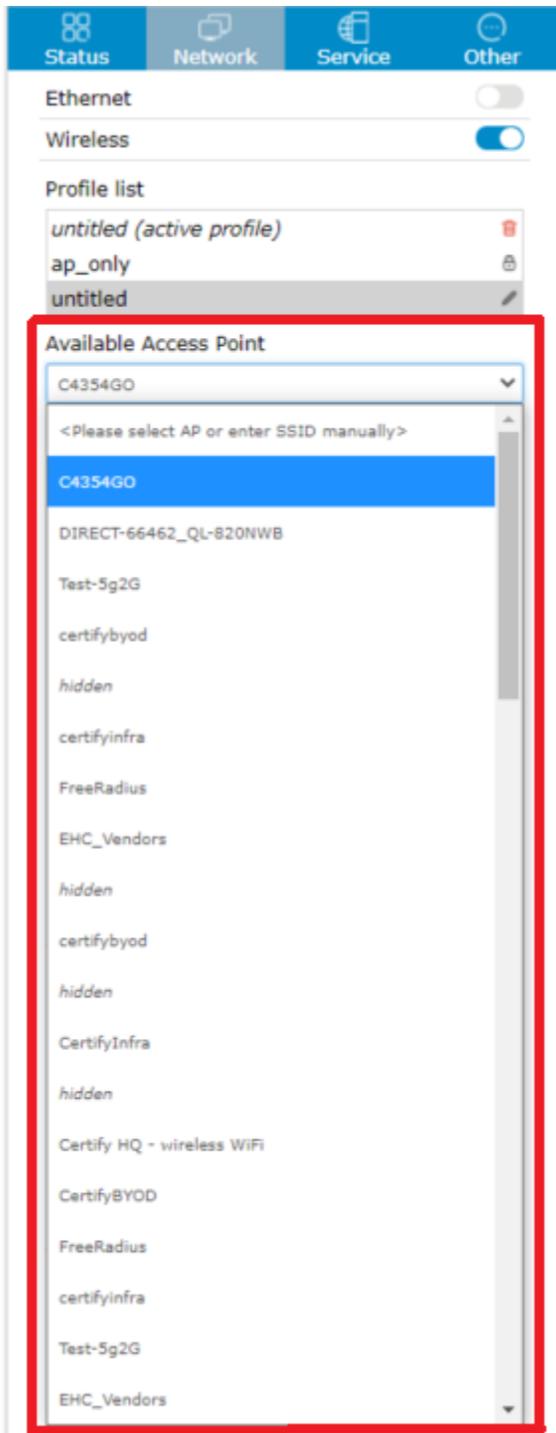
YES

Hidden property of ssid(failover) ⓘ

Network checking(failover) ⓘ

http[s]://example.com or internet ip

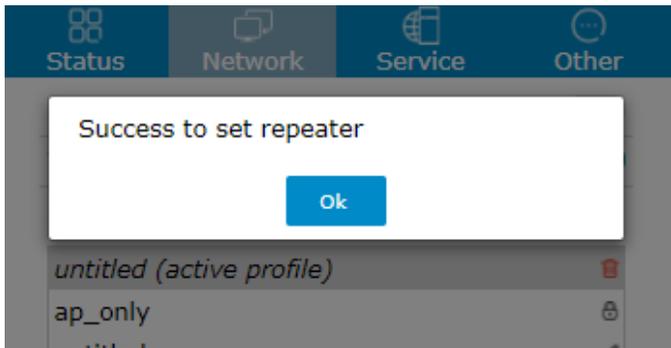
Save profile only **Restart service to take effect**



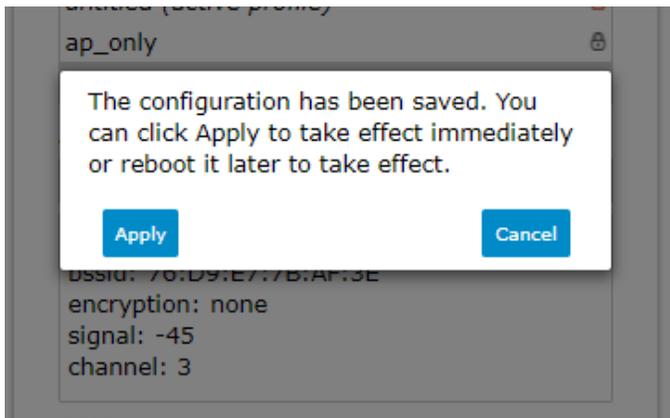
In this section, the profile can be created by selecting the respective network connection from the drop-down list in “**Available Access Point**” as shown in the image. Once the connection name is selected, a profile gets created and can be seen in the “Profile list”.

Then click on the following:

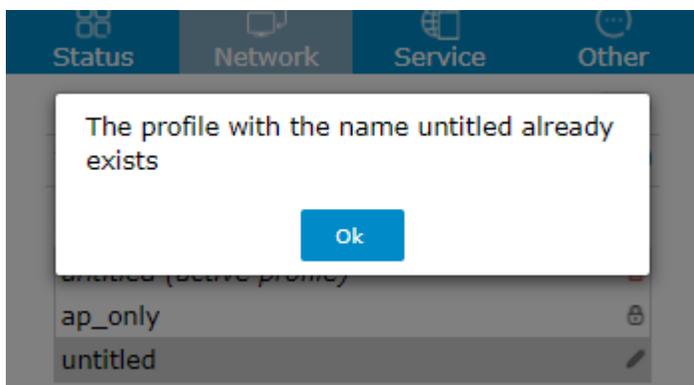
”**Save profile only**” and you will receive a pop-up as shown below, click on OK box.



This will restart the gateway device and you will receive another pop-up as shown below, click on **Apply** box.



NOTE: When another WiFi network is selected the second time, it will not allow you to “**Save profile only**” and displays an error - “**The profile with the name already exists**”.



Hence it is recommended to delete the previous one and then follow the **step 6** again.

7. Fill the following details in the “Service” section:

Status	Network	Service	Other
Service Access			
MQTT			
Proxy			
socks5h:// [user[:pass]@]host[:port]			
Upload Interval			
5 Hour			
Url			
ssl:// CERTIFY-ME-IOTHUBEUS01.azure-de			
Upload Way			
USB			
File of Certificate trusted by client			
ca.crt Upload			
File of Certificate for client to present to server			
client.crt Upload			
The client's Private Key			
client.key Upload			
The Password of client's Private Key			
Password			
Client ID			
ac233fc00017			
Qos			
0			
Keep alive interval			
10			
Username			
CERTIFY-ME-IOTHUBEUS01.azure-devices/ac233fc00017			
Password			
.....			
Status Publish Topic			
devices/ac233fc00017/messages/events/			
Action Control Topic			
/gw/ac233fc00017/action			
Action Control Response Topic			
/gw/ac233fc00017/action/response			
BLE Data Format			
Json Long			

Rssi filter(dBm)

-60

Ble name filter(regular expression)

e.g. ^MiniBeacon.*|^MBeacon.*

Ble mac filter(regular expression)

e.g. ^AC23.*|^0CEF.*

Raw data filter(regular expression)

^.*0EF6458FDF0146AE9784D5A2A2E09AE7.*

Filter duplicate data By

NO mac

Upload iBeacon

YES

Upload S1

NO

Upload unknown

NO

Upload gateway

YES

Upload specific mac addresses only

NO

Load Default Apply

- **Url:** ssl:// and CERTIFY-ME-IOTHUBEUS01.azure-devices.net:8883
- **Upload Way:** USB
- **Client ID:** ac233fc00017 (This is the device ID and will be unique for every device).
- **Username:** CERTIFY-ME-IOTHUBEUS01.azure-devices/ac233fc00017 (Here ac233fc00017 is the device ID and it should match to the device ID, else it will not sync the data).
- **Password:** SharedAccessSignature [sr=CERTIFY-ME-IOTHUBEUS01.azure-devices.net%2fdevices%2fac233fc00017&sig=7kByqcK28rT25p%2bKk5dW9bcuw5%2f18eaXvLI1a26DZg%3d&se=1633700910](https://CERTIFY-ME-IOTHUBEUS01.azure-devices.net/?fdevices%2fac233fc00017&sig=7kByqcK28rT25p%2bKk5dW9bcuw5%2f18eaXvLI1a26DZg%3d&se=1633700910)
(The password should be updated every 365 days, when it expires provide the client ID to the customer care and they will generate a new key ID).
- **Status Publish Topic:** devices/[ac233fc00017/messages/events/](https://CERTIFY-ME-IOTHUBEUS01.azure-devices.net/devices/ac233fc00017/messages/events/)
(Here ac233fc00017 is the device ID and it should match to the device ID, else it will not sync the data).

- **Rssi Filter:** -60
- **Raw data filter:** ^.*0EF6458FDF0146AE9784D5A2A2E09AE7.*
(This is the UUID of the beacon)
- **Upload iBeacon:** YES
- **Upload S1:** NO
- **Upload Unknown:** NO
- **Upload Gateway:** YES
- **Upload specific mac addresses only:** NO
- After filling out all the sections as mentioned, click on **Apply**.