

WiFi Doctor User manual

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Introduction

This guide shows you how to perform Wi-Fi site survey with WiFi Doctor App and get the survey result on the cloud platform.

Requirements

- Android Device with WiFi Doctor App installed
(Download link) <https://play.google.com/store/apps/details?id=com.yfisoft.heatmap>
- Internet access to Cloud Platform
<https://cloud.yfisoft.com:60000>

Get Started

1. Create Lavinet account

- Go to <https://cloud.yfisoft.com:60000>



Sign in to LAviNet

USERNAME
Enter username here

PASSWORD
Enter password here

Sign in

[Forgot Password?](#)

[Don't have an LAviNet account? Create one now](#)

- Click "Don't have an LAviNet account? Create one now" to go to register page



Create a new Lavinet account

USERNAME
Choose a email as your username

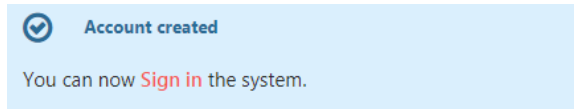
PASSWORD
Minimum of 8 Charactors

CONFIRM PASSWORD
Confirm your password

Create account

[Please sign in here](#)

- Complete the register form and click "Create Account"



2. Create Site and Map

- Login to cloud platform
- Go to menu > Site Settings > Create new site

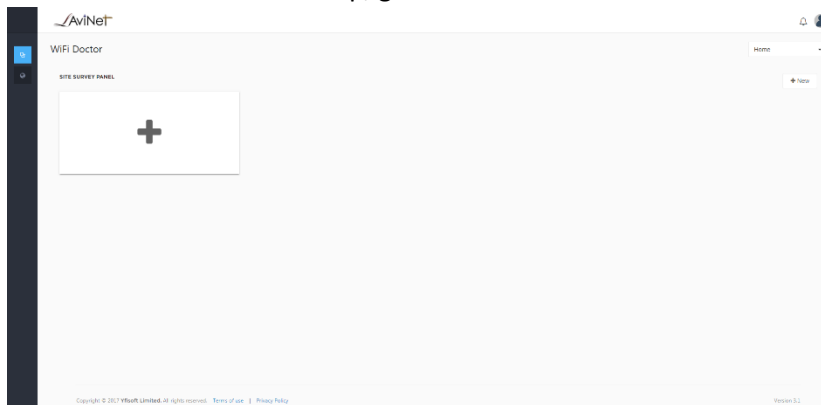
- Complete the site form (use default value) and click 'Submit'
- Go to menu bar > Site Settings > Maps

- Click "New" to create a new map for site survey
- Change map name and upload an floorplan image (png/jpg/jpeg)
- Change the zoom level to adjust the map view which is comfortable to you

- Click "Save"

3. Create WiFi Doctor Site survey Project

- After creation of site and map, go to menu > WiFi Doctor



- Click “New” and choose map for site survey

A screenshot of a modal window titled 'CREATE SITE SURVEY'. It contains the following fields: a text input for 'Name', a dropdown menu for 'Map' with the text 'Please select a map', a large empty rectangular area for 'Preview', and a text input for 'Map Scale' with the label 'Pixel(s) per meter'. At the bottom right, there are 'Save' and 'Cancel' buttons.

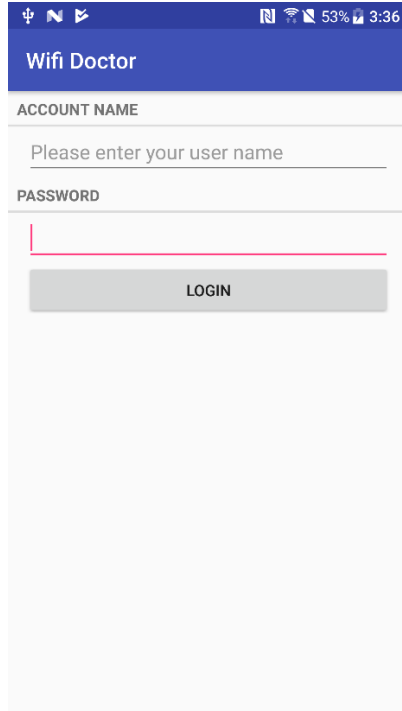
(Please enter correct map scale as it will affect the accuracy of the result)

- Complete the form and click “Save”
- Now it is ready to perform site survey

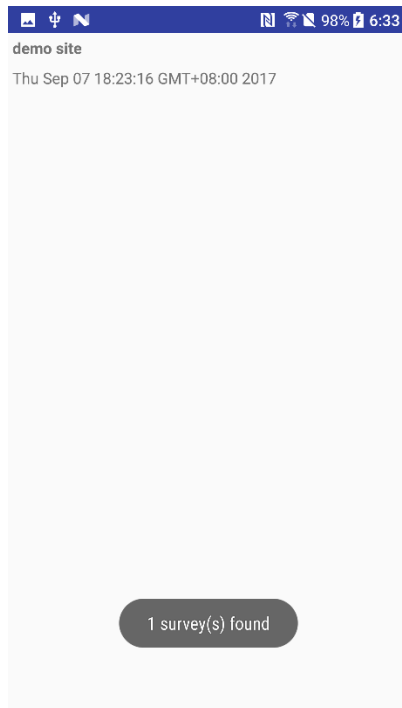
WiFi Doctor App

1. Start survey

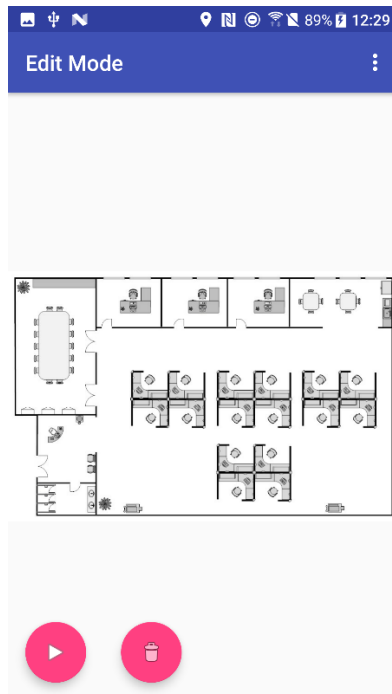
- Login:



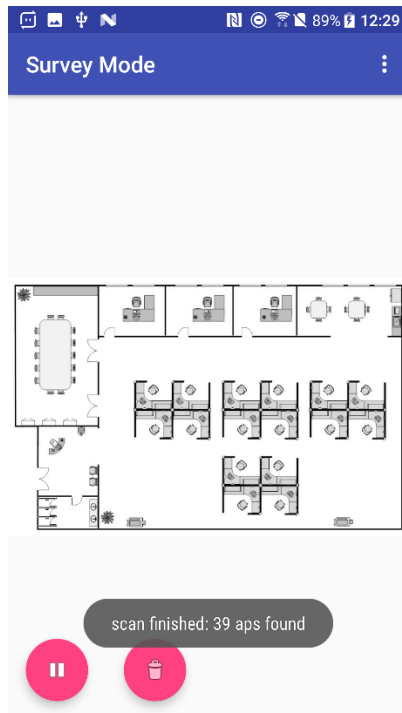
- After login, you will get your list of survey sites:



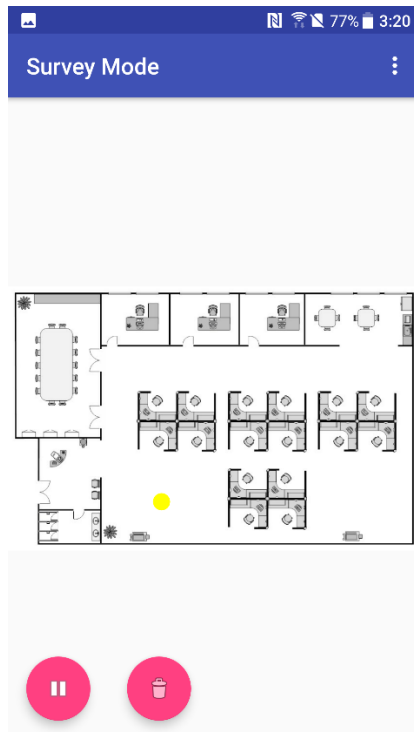
- Select the site that you want to do survey, then you will be redirected to a floor plan view:



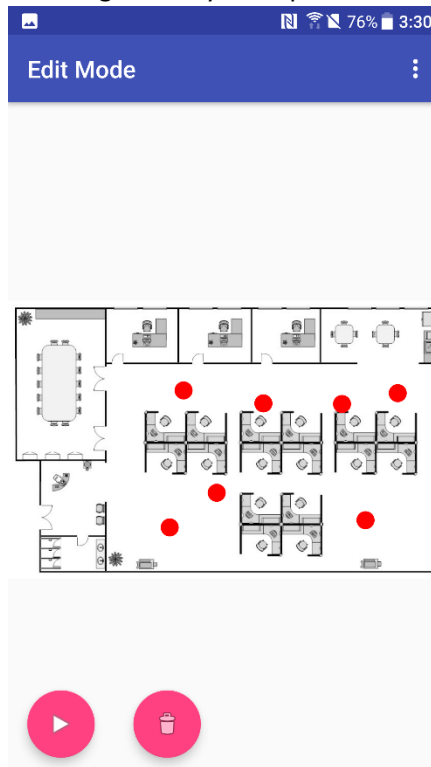
- After pressing the play button on the bottom-left corner, the pause button appears, then WiFi scan starts, when a scan cycle is finished, a short toast will prompt:



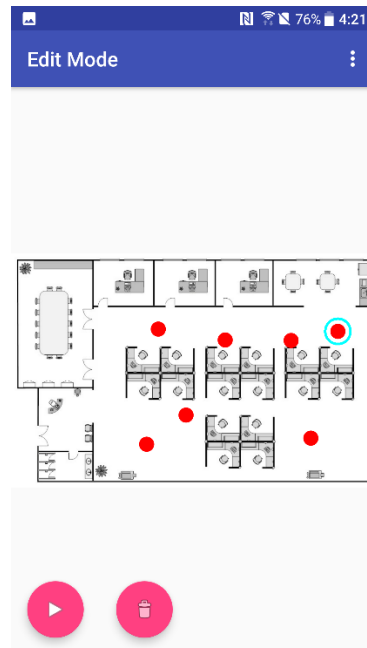
- Tap on the user location of the floor plan, wait a few seconds, you will see a yellow point on the tapped location:



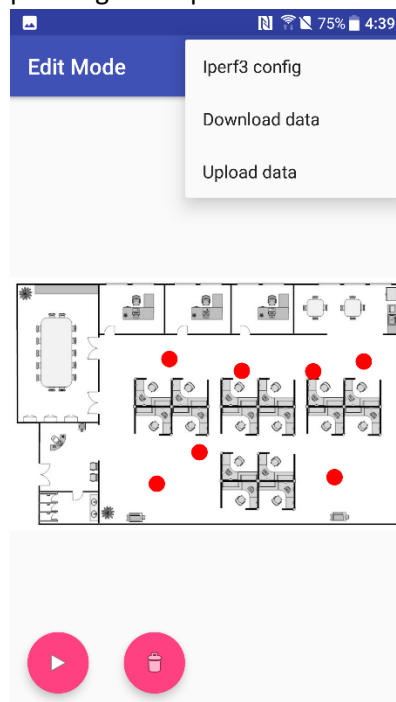
- After site survey is done, one can press the pause button, which will stop the WiFi scanning and all yellow points turn into red ones:



- User can modify/delete individual point(s) as needed:
 - First, select a point, a cyan circle will appear:



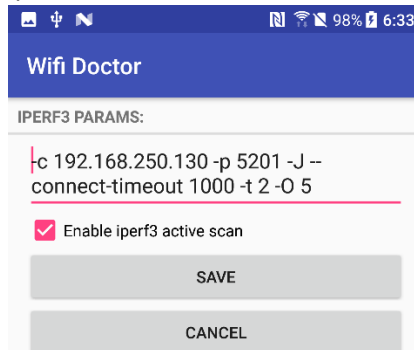
- After selecting a point, if removal is required, press the rubbish bin button at the bottom, the selected point will be gone.
 - After selecting a point, if one wants to shift the location, long press at the target location, then the point will be moved to the target.
- When everything looks fine, one can upload the survey points to cloud server by pressing the “upload data” button in the menu on the top:



- After successful upload, red points will turn green and user can no more edit green points from the phone:



- The “download data” button in the menu will reload the green points from remote and will not affect the red and yellow ones.
- User can enable active survey by using the “Iperf3 config” button in the menu, (note: a iperf3 server is needed, download iperf3 <https://iperf.fr/iperf-download.php>) :

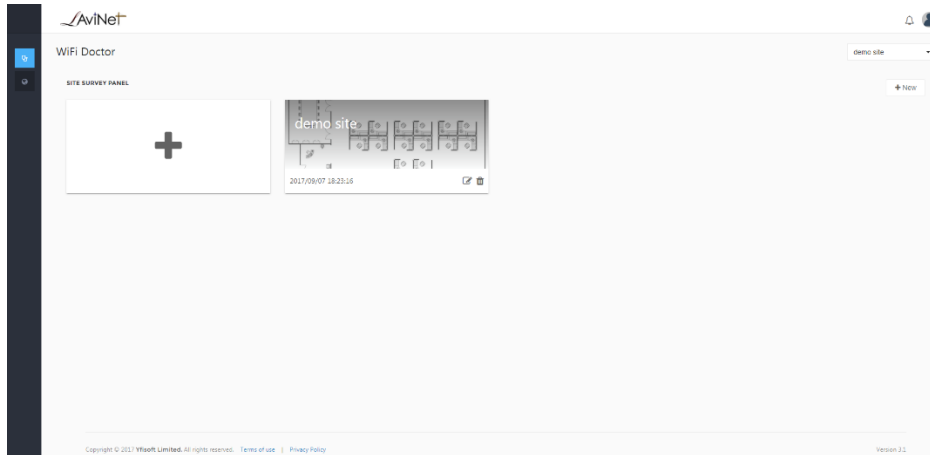


Site Survey Result

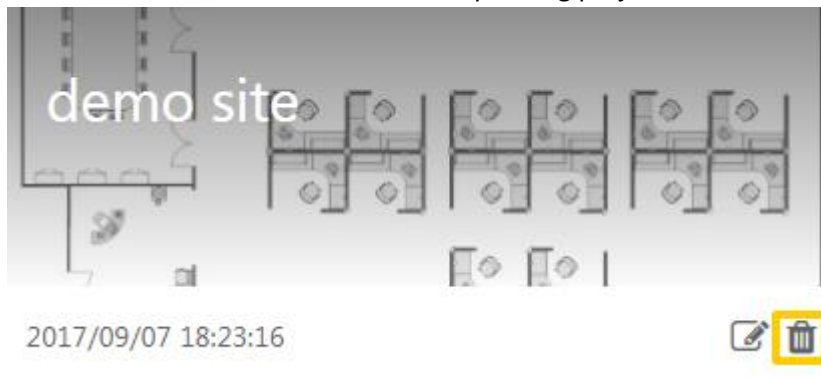
You can go to WiFi Doctor Admin page and check the result after the survey is performed.

1. WiFi Doctor Site Survey Panel

- Listing all Site survey projects (Go to menu > WiFi Doctor)



- Click delete button to delete the corresponding project

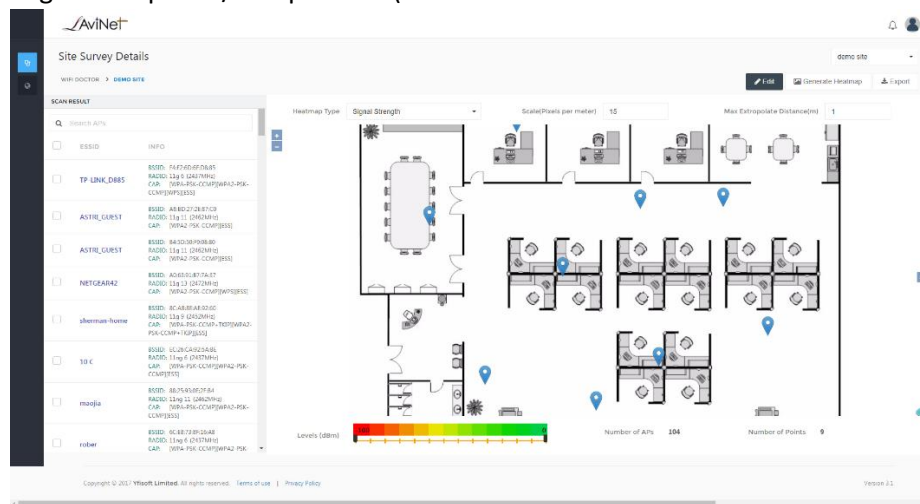


- Click buttons below to view the details of corresponding project



2. Site Survey Details

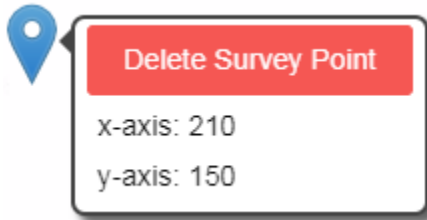
- Page Descriptions/Components (Go to menu > WiFi Doctor > click into details)



- Scan Result (Heatmap Type : Signal Strength) - access point list scanned during passive survey
- Scan Result (Heatmap Type : Throughput) - access point associated during active survey
- Heatmap Type - the map type will be generated and displayed
- Scale(Pixels per meter) - the map scale used for Heatmap generation (*Please enter correct Map scale as it will affect the accuracy of the result*)
- Max Extrapolate Distance(m) – the maximum distance in meter away from survey points where the engine will “guess” a value according to the heatmap type
- Levels (Heatmap Type : Signal Strength) – color range for signal strength in dBm
- Levels (Heatmap Type : Throughput) – color range for throughput in Mbps
- Number of APs - number of access points scanned in the survey
- Number of Points - number of survey points collected in the survey

2.1. Edit Survey Points

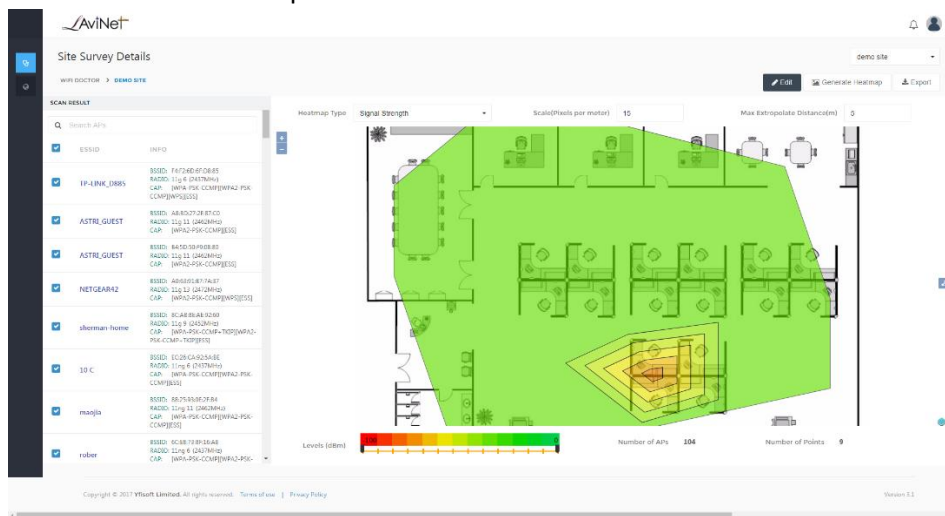
- Click 'Edit' button
- Click on the survey point and then 'Delete Survey Point' button if you want to remove this point



- Drag and drop the survey point to adjust its location
- Click 'Save' to confirm changes
- Click 'Cancel' to undo changes

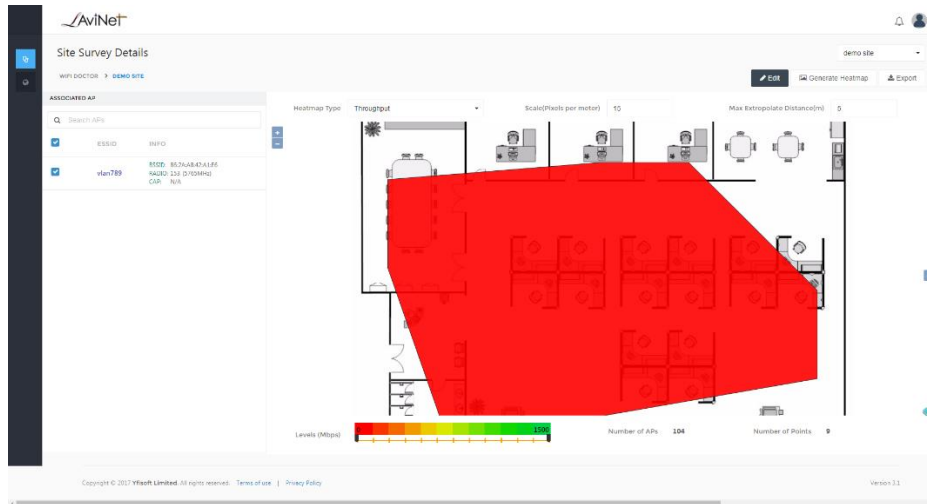
2.2. Signal Strength Heatmap Generation

- Choose Signal Strength as heatmap type
- Choose access points in the scan result
- Adjust parameters if needed
- Click 'Generate Heatmap'



2.3. Throughput Heatmap Generation

- Choose Throughput as heatmap type
- Choose access points in the scan result
- Adjust parameters if needed
- Click 'Generate Heatmap'



2.4. Export Result to PDF

- Adjust parameters for both Signal Strength and Throughput Heatmap
- Click 'Export'