Visual WiFi Performance Measurement and Optimization Solution

Lidar Localization and Mapping in Real-time

DingLicom

Overview

These days, having fast and reliable WiFi connectivity at home has become a necessity. However, in many instances, Wi-Fi is annoyingly sluggish with weak coverage, causing dissatisfaction and inconvenience.

For Users:

Often suffer poor network experience resorting to Network Operators to fix the Wi-Fi issues or upgrade their service.

For Network Operators:

Need to maintain customers' trust by providing stable and reliable network while facing high maintenance costs and labor shortage

For Network Maintenance:

Difficult to identify indoor network quality issues using commercial Wi-Fi testing tools which typically depend on camera-based indoor mapping, lacking accuracy and limited application due to privacy concerns.

Solution

Dingli provides visual WiFi performance measurement and optimization solution that enables real-time localization and mapping.

Foresight, an Android-based app equipped with hardware LIDAR for indoor Wi-Fi assessment. It provides real-time network quality assessment through data collection and analysis, presenting walking tracks in real time.
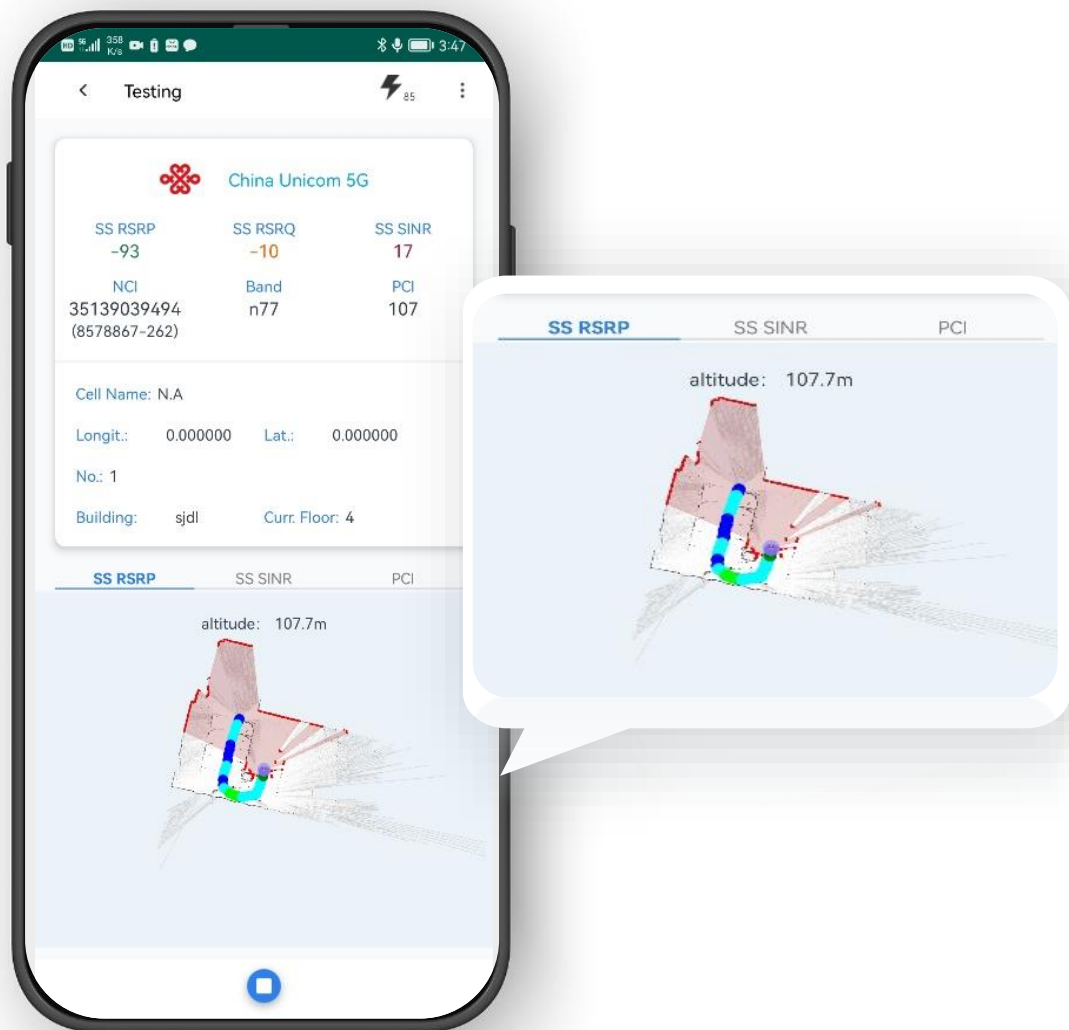
Unlike other signal strength booster apps available in the Windows Store, Foresight leverages LIDAR integration for improved precision in positioning and pinpointing, ensuring the most accurate indoor mapping. It also serves as a quick network diagnosis tool and generates customized reports, enabling testers to identify and resolve indoor Wi-Fi network quality issues easily and efficiently.
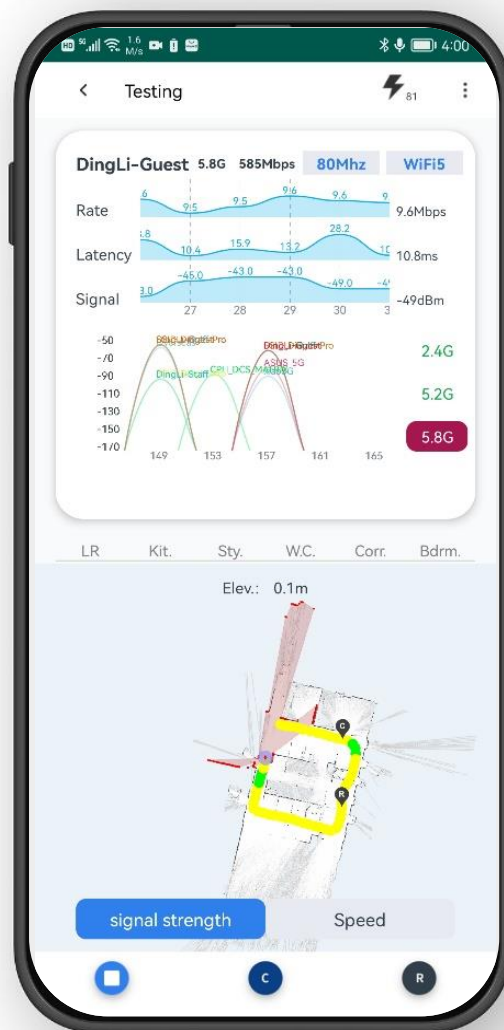
Highlights

1.Real-time and Precise and Automatic Indoor Mapping

LIDAR provides accurate indoor positioning and pinpointing, achieving 360˚ scanning, presenting altitude and walking tracks with maximum test area up to 10,000 square meters.
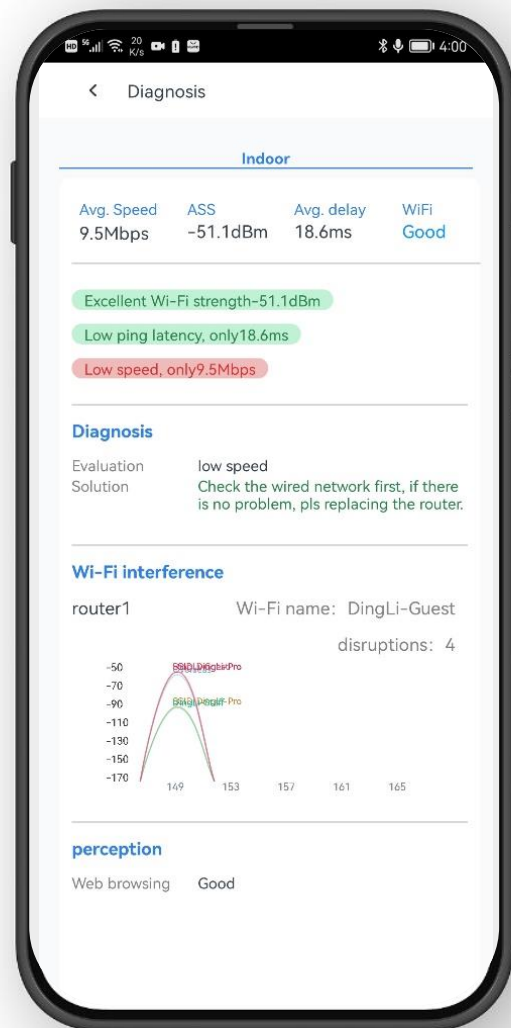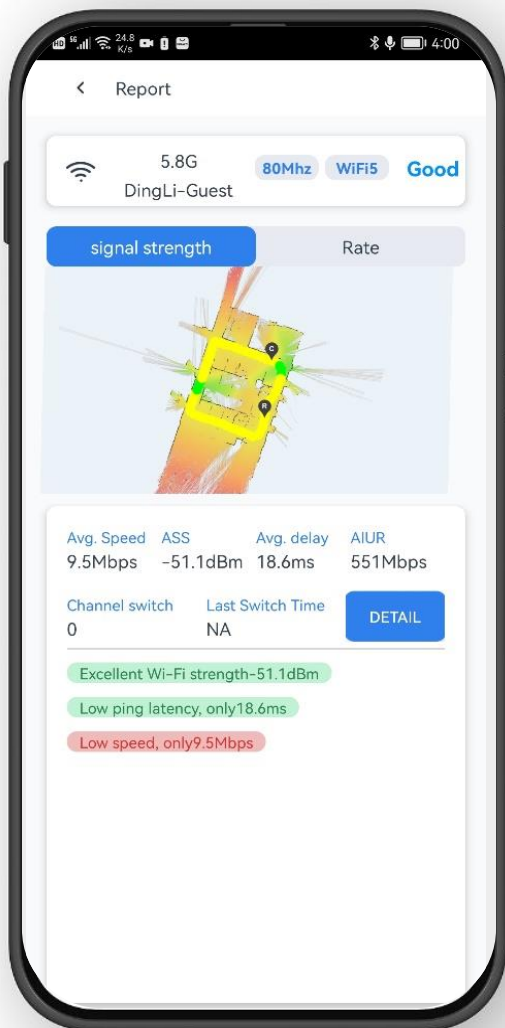
2.Real-time Network Quality Assessment

Automatically collects and presents network data in real time during the testing process, executing PING, FTP service test, displaying the average speed, delay, signal strength, interference, roaming switching, etc., scoring based on the standard algorithms.

3.Highly Accurate and Visual Heat Map

The heat map clearly shows overall indoor signal strength results, allowing the user to instantly assess network quality in each corner or specific area. It generates test reports and provides solutions.

Benefits

Smart & Easy Handheld Operation

With an intuitive user interface and graphical data report, it enhances the operational efficiency providing testers with a clear understanding of network quality immediately and thereby improving user perception.

Maximum Maintenance Efficiency

Conducting network quality measurements for 180 sqm of space in just 2 minutes, rapidly diagnoses faults, generates analysis reports, and provides solutions. Maximizing efficiency in operation and maintenance while increasing user satisfaction.

Effective Cost & Personnel Management

With only one maintenance personnel conducting on-site inspections and generating immediate reports, network operators or maintenance service providers can significantly reduce labor costs. In addition, the indoor mapping can clearly show the walking tracks of testers, preventing falsification and enabling better employee supervision.

Tailored Services

Utilizing advanced big data analysis and post-processing techniques, we offer customized functionality for our App such as test services, reports, and other specific application requirements.

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