Full-scenario, 24/7 service, Multi-subscribers, and Multi-dimensional Low Airspace Network Coverage Measurement and Optimization Solution

Drone-based Mobile Network Testing & Troubleshooting

DingLicom

Organization

China Telecom

Background

The speed and scale of urban modernization brings challenges, such as demand and complaint for full-scenario, 24/7 service, multi-subscribers, and multi-dimensional low airspace network coverage increase, in which telecom operators need to improve the network quality of high-rise office buildings, residential neighborhoods, and large stadiums.
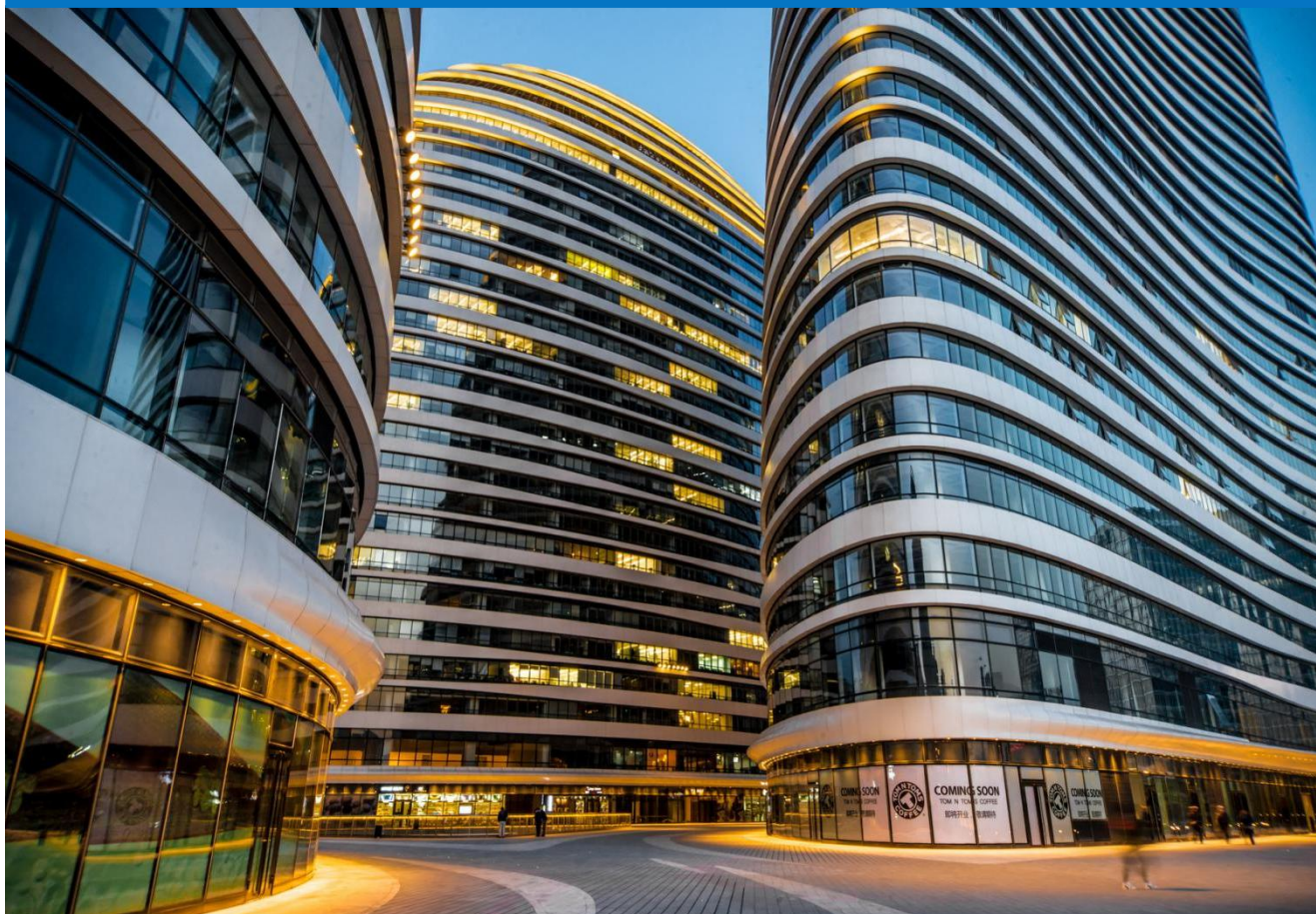
Challenge

Accelerate the low airspace network coverage assessment and optimization, improve QoS and QoE to increase 5G subscription penetration and service revenue.

Solution

Based on UAV （Unmanned Aerial Vehicle） + highly integrated wireless portable test module + post processing platform, Dingli provides multi-dimensional data analysis solutions for the full scenario of low-altitude spaces such as large venues, high-rise office buildings, residential communities, etc., enable intelligent, high-efficient, portable and reliable network measurement and data analysis for low-altitude cellular network.
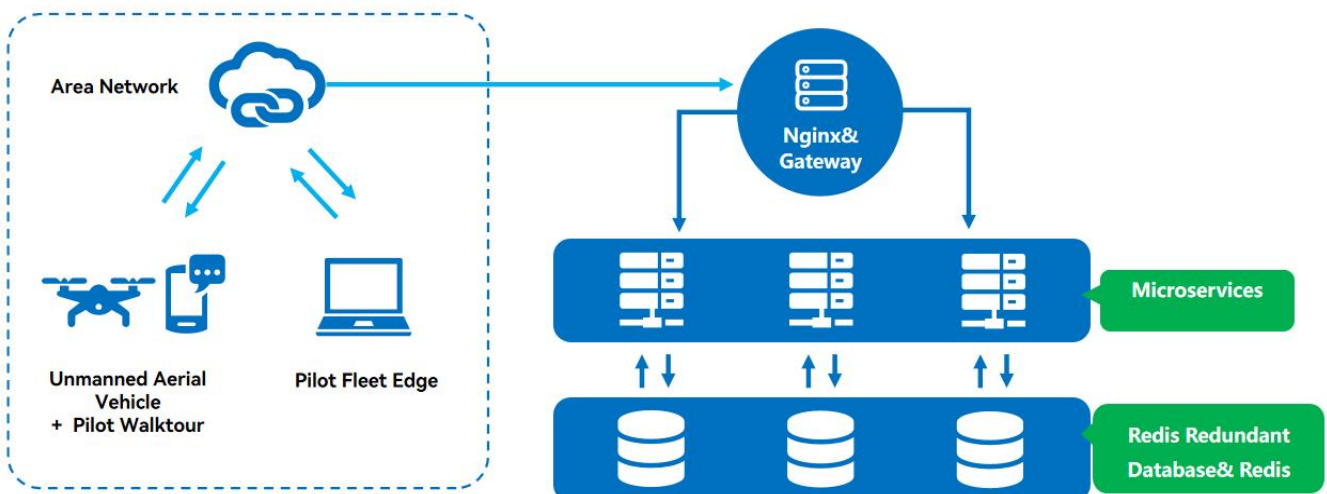
Benefit

Improve Efficiency

- Innovative technology enabling intelligent, efficient, portable low-altitude cellular network measurement.
- Highly integrated front-end test module simplifies the operation process, the back-end platform supports remote control, and test plan ready-to-use.
- Real-time monitoring, reduce rework and re-testing, easy-to-use statistical indicators, and large volume data output, save time and effort.

Reduce Cost

- Data indicators on demand, saving **2-3** persons per month for the implemented projects.
- Reduce **90%** of the repetitive selection, extraction, and aggregation during the data output process.
- Reduce rework and re-testing.

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