

Airometric Wireless



Client

A leading company in the wireless ecosystem.

Business challenge

The change from 3G to 4G(LTE) or Wi-Fi created an opportunity for the client to qualify the performance of mobile networks and different devices on them by monitoring and analyzing end-to-end usage of new and existing hardware on current networks. Insights on mobile device network usage answered issues like call drops and network availability while assisting in finding out if the issues were with the networks or the devices:

- This required the ability to perform signal checks and other telecomm parameters on mobile devices to capture device compatibility on different networks
- The client needed to develop a product which could store and run analytics on data collected from different devices while addressing device compliance

Approach

Assisted the client in developing a product with specific features:

- An Android app was created to collect data for various telecomm tests such as ftp, mobile originated, mobile terminated, and ping along with providing support for external drive tests
- Server side components were made to collate and merge collected data so it can be processed for analytics
- Developed analytical components with business logic applications, providing results displayed on Google Maps

Results

Developed a cloud based TaaS (Testing as a Service), a system providing the ability for the client to analyse data collected from various sources and measured call performances:

- The product was created from web based design of all fully transparent test cases and documented KPI's
- The client was given customizable online access to reports, including device logs
- Test results with actionable analytics were made possible based on data from the tested devices
- Produced a device application for quick device testing under test or network
- To certify devices, E991 compliance results were provided

Business benefits

- Ease of business through reduced call drops and more network availability
- Quick turnaround time through faster testing on a newly developed software
- Better decision making by analyzing collected data and measured call performances

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