

A cell phone signal booster firm leverages Azure IoT Solution to enhance cell phone coverage

Customer Profile:

A leading developer of indoor coverage technology which optimizes the experience of wireless subscribers and increases Radio Frequency (RF) network capacity for mobile operators.

Business Situation:

A cell phone signal booster manufacturer was in need of a solution that could capture data and provide real time monitoring of the devices. The required solution should have a mechanism to send messages to devices, such as software updates to devices, system state, and vulnerabilities.

With automated flow data monitoring and data logging crucial to the company, the challenge was in finding a communications solution that could provide:

- Real time monitoring of the devices
- Streamlines communications by unifying multiple protocols into a single platform
- Reduces costs through fast project deployment
- Enables customers at all business levels to learn and use the system easily

Key requirements included:

The application would collect telemetric data from the devices, and the devices would be able to receive commands from other applications. It would become much easier to update the firmware on the device by sending a notification and the location of the new firmware version.

WinWire Solution:

WinWire designed an IoT solution that could capture telemetric data received from devices and provides a mechanism to send messages to devices, such as software updates using Cloud to Device messaging. Each device can be individually tracked to identify any issues with the device, and possibly resolve the issue by sending a firmware update.

The solution which was designed also handled different geographic locations with minimum latency. Furthermore, the solution consisted of a secure web interface for internal and external users to monitor the devices they have access to. The solution enabled customer to connect and monitor their devices to analyze untapped data and helped in improving business outcomes by automating processes.

- **Technologies Used:** Azure IoT Hub , SQL Server Database

Benefits:

- Real-time access to monitor and manage remote assets
- Maximize efficiency
- Optimize operations
- Seamlessly support clients at any time, from any location.
- Better analysis capability and insight into trial data

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