

DFW Partnered with Betacom & Airspan to Improve Baggage Sorting Facility Service

Industry
Transportation

Location
Texas, USA

Partner
Betacom

End User
Dallas Fort Worth
International Airport

Reference

Overview

Dallas Fort Worth International Airport (DFW) worked with Betacom on a trial to build a Private Network. With extremely large operations, wifi service is insufficient to provide a full mobile coverage to employees, sensor machines and passengers. DFW airport covers 26.9 miles with five terminals, seven runways and 168 gates. It has its own data centers, police force and fire department. It employs more than 30,000 workers.



Challenges

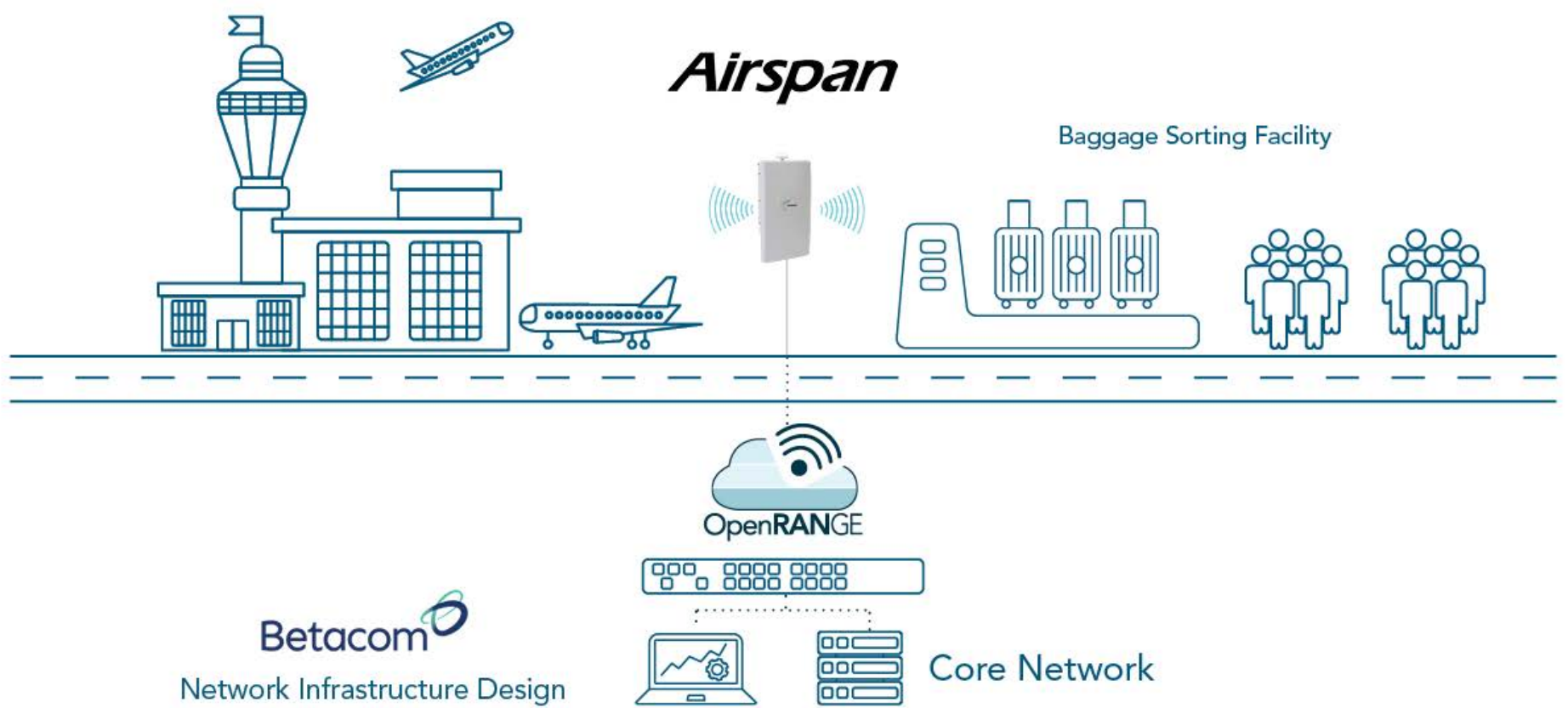


DFW uses sensor technologies to monitor the operations. They installed sensors on escalators, parking lot, restrooms and concession areas. Imaging technologies like cameras and CCTVs are widely used to ensure security in the airport. With all the security devices in place, some of the sensors loses of connection due to the high volume of network traffic. The management also lacks the visibility to these data traffic that may enhance their business intelligence. Some areas in the airport doesn't have any internet connection at all.

Solution & Benefits

The recommended infrastructure design is a Private Network using CBRS spectrum under General Authorized Access. With Betacom's partnership with Airspan, its CBRS and Open RAN solutions were used. The test was conducted at American Airlines Gate 9 to support their baggage sorting. The test was successful. Low latency and high bandwidth performance were achieved.

The airport management looks forward to extend this network architecture as a potential business that they can offer to airlines and concessionaires. This will also help them to improve their autonomous vehicles and robotics which are existing at their warehouse operations. Facial recognition of people coming inside and out of the airport can also be made possible.



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