Comba

Business Case - DAS Solution

New international Airport El Dorado of Bogotá. High performance voice and data for a demanding public.







The new International Airport El Dorado is located in Bogota metropolitan area and is the main entrance door to Colombia. It operates flights (passengers and cargoes) coming from all over the world and over 200 million passengers used its two terminals in 2011. It also has one of the longest runways in the world and is one of the largest cargo airports in Latin America.

Opened up in 1959, the airport is now undergoing a major upgrade to be completed in 2014 to better meet the increasing demand, thus consolidating the whole required structure in terms of services, meals, shopping, authority reception and convenience in general.

SCENARIO

The airport managing concessionaire, and the main telecom carrier from Colombia intended to offer quality voice and data service as follows:

Multi-technology: GSM, WCDMA, LTE and iDEN Multi-band (MHz): 800, 850, 1900, AWS, 2600 Multi-operators: network sharing among the carriers Claro, Avantel, Movistar, Tigo and Une.

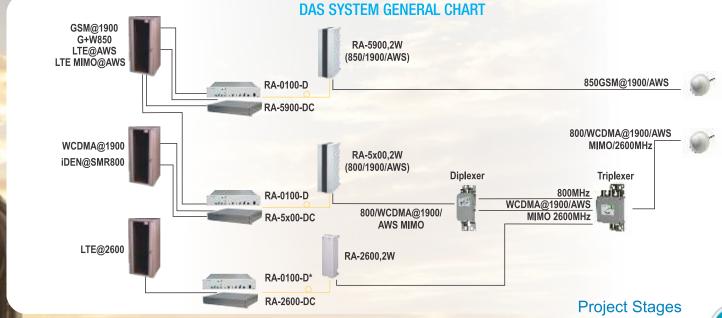
COMBA SOLUTION

COMBA Telecom's indoor coverage DAS Solution was ideal to overcome the challenges. COMBA design team selected their best:

- 180 panel and omnidirectional antennas (wideband indoor)
 - 72 RF repeaters on optical fiber
 - Solution management servers
 - 12.4 km coaxial cables

COMBA Telecom was in charge of the solution design, equipment and materials supply, system operation and maintenance, partner and project management, deploying the best design management practices through PMBOK methodology.

Managing large and complex projects is part of COMBA Telecom core business, thereby ensuring the delivery of excellent results with high quality.





Remote and Master Unit

Preliminary on-site inspection Quotation and project preparation Acquisitions Equipment deployment Carrier commissioning System tuning for performance gains



Master Unit - BTS Hotel



Comba Racks

RESULTS

Before the project implementation, the cell mobile coverage at Bogota International Airport was totally deficient. The few antennas installed outside were also in charge of radiating signals to the indoors, not meeting the requirement for quality and comprehensive telecom services. Upon the project completion in 2014, COMBA Telecom will have enabled the upgrade of operators' GSM, WCDMA, LTE and iDEN coverage, thus providing more comfort and agility to users in:



5 floors 163.000m2

- 64 air companies' desks
- **Arrival and Departure areas**
- Public areas such as food courts, duty-free zones
- Restricted, technical and support areas

For airports, sport arenas, shopping centers or

and is ready to meet the demand.