

# Hartsfield-Jackson Atlanta International Airport Wi-Fi/DAS

## CASE STUDY



### PROJECT SYNOPSIS

- **GOAL:** Install airport's first airport wide wireless network for 88 million business and leisure travelers.
- **SOLUTION:** Establish a 150 access point, neutral host wireless network antenna in the 5.8 million square feet terminal and nearby facilities; and expand and improve cellular phone coverage in the Transportation Mall.
- **RESULTS:** "The Airport is now one huge 'hot spot,' enabling users access to the wireless Internet service from virtually any point in the airport, including the typically hard-to-reach transportation mall under the concourses," says Lance Lyttle, chief information officer.

### What is the intended outcome?

Hartsfield-Jackson Atlanta International Airport launched its first wireless fidelity (Wi-Fi) system in October 2005; the contract also involved the expansion of the airports cellular service coverage area via DAS or distributed antenna system. The airport wanted to provide a neutral host system to allow its 88 million annual passengers the convenience of having access to the Internet for business or leisure.

### What advantages can the Wi-Fi project bring?

In addition to helping to install a network to allow users to log on to the Internet from virtually any location at the Atlanta Airport, the project was designed to offer competitive pricing with the neutral host system. Instead of only having one Wi-Fi service

provider, Hartsfield-Jackson offers more than 5 choices.

The Airport's Wi-Fi system is believed to be the largest airport project in the world.

### Background

Hartsfield-Jackson Atlanta International Airport is the world's busiest airport serving international and domestic flight around the world. The Airport is owned by the City of Atlanta and operated by the Department of Aviation. The terminal complex is comprised of 176 gates and approximately 5.7 million square feet of facilities.

### Scope of Work

The City of Atlanta's Department of Aviation unveiled the largest airport Wi-Fi system in the world in 2005 and at the same time expanded its wireless cellular phone services at

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the airport. The combined project involved the installation of over 700 antennas, 5 miles of fiber optic cable, 10 miles of coaxial cable, and 40 miles of Ethernet cabling throughout the terminal complex and airport facilities.

TDCSI working as a subcontractor to SITA, was responsible for the installation of those tasks and worked around the clock to meet an aggressive 6 month timeframe.

This project also involved setting up 5 equipment rooms for wireless operator base stations; uninterruptible power supplies for all equipment; 3G data sources at DSL speeds; and a 125 MHz covered spectrum.

#### **ABOUT THE COMPANY**

The company's depth of experience, efficiency and attention to detail results in successful projects and contributes to TDCSI's ranking as one of the fastest growing and successful contracting firms in the nation.

#### ***Industries We Serve:***

- Department of Transportation
- Aviation
- Public Safety
- Healthcare/Medical
- Local, State, and Federal Municipalities

#### ***Our Services:***

- IT services, solutions & support
- Facility build out (elec., HVAC, cabling)
- Network/system infrastructure
- DOT installations (traffic signal, overhead interstate message boards, interstate cameras, mass lighting)
- Aviation technology solutions, services and support