

Project: New York JFK Light Rail



Project Overview

Client: Port Authority of New York & New Jersey

Daily Ridership: ~10,000

Length: 13 km

Stations: 10

The Port Authority of New York & New Jersey was implementing a new LRT to connect JFK airport passengers to the New York subway system. What they needed was an integrated, flexible and less expensive solution than the traditional LRT solutions. Willowglen Systems won a competitive bid to provide the ICS/SCADA upgrade that was implemented last year. We developed several types of custom software to facilitate seamless integration with their chosen subsystem vendors.

Our upgrade provided them with enhanced consistency and an easy-to-operate control environment with a modern interface with a human factors design.

The original ICS that the JFK train was running off had been implemented by us back in 2003. The ICS system upgrade was in 2019. The Port Authority has been a Willowglen client since 1999 when we first implemented a SCADA system for them.

The Port Authority remains a Willowglen client. We are working with them to integrate additional subsystems (For example, a People Counting System and a Train Prediction Solution) and to further their system capabilities as requested (SCADACOM version upgrade).

Integrated Subsystems

- Automatic Fare Collection (AFC)
- Building Management System (BMS)
- Closed-Circuit Television (CCTV)
- Communication-Based Train Control (CBTC)
- Emergency Radio
- Enhanced Digital Access Communication System (EDACS)
- Onboard & Station Public Address (PA)
- Operation & Maintenance Radio Monitoring System
- Passenger Information Display System (PIDS)
- People Counting System (PCS)
- Private Branch Exchange (PBX)
- Programmable Audio Switch (PAS)
- Supplementary safety, security, and auxiliary equipment
- Traction Power (TPS)
- TrakCom Communication Control Unit