



Two World Trade Center – Pedestrian Flow Analysis



Client Name: Silverstein Properties, Inc.
Date Started: June 2015

Date Completed: November 2015

Silverstein Properties asked TransSolutions to assist in evaluating the level of service for the new design for the proposed Two World Trade Center (WTC) using detailed simulation models. TransSolutions built a model for the redesigned public lobby of Two WTC.

The model helped the team determine the required number of processors and the ideal location at the lobby. The processors include:

- Revolving and Swing doors
- Turnstiles
- Visitor Desks
- Elevators

Additionally, the simulation model tracked individual pedestrians at the corridors and TransSolutions reported peak occupancies at individual zones within the studied areas (i.e., a measure of congestion).

This detailed data about pedestrian flows provided the team with a quantitative assessment of critical facility requirements during design development. The 3D animation helped the team visualize the congestion at various zones in the facility.