

Tishman Speyer and
Rockefeller Group —
Owners of New York's
Famous Rockefeller
Center Concourse



New York's Rockefeller Center Concourse Provides Tenants and Visitors with Seamless Wireless Connectivity

The underground Rockefeller Center Concourse is one of the highest traffic commuter thoroughfares in Manhattan, with an average of 65,000 commuters and visitors passing through each day, increasing to over 100,000 a day during the holiday season. It is comprised of over 40 shops and restaurants, and the public space overlooks the Plaza's famed skating rink. The area is the principal passageway for tenants of the adjacent office buildings, commuters and visitors.

The Challenge

The Concourse owners, known for providing world-class amenities to their tenants and guests, wanted to supply seamless wireless connectivity for multiple wireless services in the heavily trafficked thoroughfare.

However, wireless signals cannot penetrate the labyrinthine concourse, which winds underground through several city blocks in the heart of Manhattan.

The only way to provide coverage was to install an in-building distributed antenna system (DAS), but the owners didn't want to disrupt the ebb and flow of commuter traffic by installing a coverage solution that required ongoing upgrades and extra equipment each time carriers or services were added to the system.

The Solution

It was clear that a shared inbuilding wireless infrastructure would not only benefit all parties, but also be the most efficient and cost-effective solution. Black Box Network Services (BBNS) and the property owners shared a

Objective:

To enable the use of wireless applications and devices throughout the underground Concourse, which is one of the highest traffic commuter thoroughfares in Manhattan.

Benefits:

- Increased communications
- Convenient wireless connectivity for tenants and visitors
- Multiple services and providers supported on a unified, strategic system
- Cost-effective and low maintenance
- Capable of supporting additional services, protocols and frequencies to bring future benefits to both Concourse owners and wireless providers

vision from the outset of how the system would work and the benefits that would be derived from installing the company's DAS solution in the Concourse.

BBNS worked closely with the Concourse owners and wireless carriers to design and engineer a system that would meet their needs. Highly trained and experienced radio frequency engineers from BBNS conducted a comprehensive site survey, taking into account building construction materials and coverage requirements.

BBNS' team of project managers oversaw every aspect of the system design, procurement, installation, testing and acceptance, working closely with all involved parties to ensure a quality installation with minimum disruption to tenants, enterprises and visitors.

The benefits of the BBNS DAS extend beyond the wireless users and visitors of the Concourse by expanding the coverage area for national wireless carriers including AT&T, T-Mobile and Sprint. By providing wireless coverage for hundreds of thousands of visitors to Rockefeller Center, the carriers are ensuring their customers will remain connected to the people and information that matters the most in their lives through the latest 3G/4G smartphones.

BBNS' solution also provides additional options for the Concourse. Capable of supporting multiple services, protocols and applications, including two-way radio, paging, and fire/life/safety emergency services, this wireless utility can meet the Concourse's future wireless needs.

Black Box (NASDAQ: BBOX) is leading communications systems integrator dedicated to designing, sourcing, implementing and maintaining today's complex communications solutions. Black Box services more than 175,000 clients in approximately 150 countries with approximately 200 offices throughout the world.