

A fiber network to match the demands of New York.

Wireless carriers in New York City needed to upgrade their capacity to meet the growing wireless demands of the city's dense population. However, the aging T1 system was becoming too costly to continue upgrading. Installing fiber would provide the capacity carriers needed with plenty of opportunity to grow in the future.

Challenges

Never content to be behind the curve, New Yorkers expect to have tomorrow's technology yesterday. Upgrading to fiber to provide the necessary capacity came with a unique set of challenges:

- The fiber network needed to be installed fully underground using existing ductwork.
- New digging was required to connect into

residential buildings—approval to do so had to be obtained from individual building owners.

- The whole project had to be completed in two years.

The logistics of doing this in a city with aging infrastructure and layers of red tape was daunting. Doing it all in two years only compounded that challenge, but we got to work and found a way.



The Solution

Using our vast experience and local expertise, we assembled a highly skilled team of contractors, engineers, and builders who were able to complete the installation ahead of the two-year deadline. We ran a 26-mile ring of fiber around the city with an additional 40+ miles connecting the buildings and nodes to the primary network. In all, we connected 220 sites. In order to take full advantage of the speed and capacity of fiber, we also had to update all the backhaul circuits.

The entire network has been tremendously successful. Like all the small cell solutions (SCS) networks we build, it's a neutral host solution, so all wireless carriers can take advantage of the new system without unnecessary infrastructure.



SCS nodes installed on an urban rooftop.

WHY CROWN CASTLE?

We have nearly 15 years of experience implementing fiber and SCS in communities of all kinds, from dense urban centers to residential neighborhoods.

Discreet, innovative technology

We provide shared infrastructure that gives you the wireless service you've come to depend on—all while blending in with your environment.

Scalable solutions

Our SCS are connected by fiber optic cable—making upgrades easy and enabling virtually unlimited future capacity.

Long-term commitment

Our business is all about infrastructure, and you can count on us to be here no matter how technology or carriers change.



For more information, please contact (866) 482-8890 or visit CrownCastle.com

About Crown Castle

Crown Castle provides wireless carriers with the infrastructure they need to keep people connected and businesses running. With approximately 40,000 towers and 15,000 small cell nodes supported by approximately 16,000 miles of fiber, Crown Castle is the nation's largest provider of shared wireless infrastructure with a significant presence in the top 100 US markets.

The Foundation for a Wireless World.

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