



## Case Study

### Major Metropolitan Area

## Philadelphia, Pennsylvania

Philadelphia—widely known as the City of Brotherly Love—is one of the most populous cities in the United States and a major national and international tourist draw. The city is home to what many consider to be the largest concentration of America’s historic sites in the nation. Independence Hall, the Liberty Bell, the Old City area, the Betsy Ross House and the Philadelphia Mint are just a few of the sites that attract more than 25 million convention, business and leisure visitors a year.

### Facts

- One of the largest metropolitan areas in the United States
- Highly concentrated Historic Philadelphia District
- Major tourist attraction
- Population of approximately 1.5 million
- Spans nearly 150 square miles
- Located within a few hours drive from Atlantic City, Washington, D.C., and New York City



### Challenges

Philadelphia’s large population, booming tourism industry and proximity to other major metro areas created a need for a high performing wireless network that could support a variety of innovative voice and data services for local residents and easily handle frequent surges in wireless traffic from visitors. The new network also had to adhere to the city’s aesthetic requirements, including preserving the surroundings of its Historic District. Traditional infrastructure solutions were not an option, since they just couldn’t adequately meet all these needs.

- Surges in wireless traffic
- Growing wireless user base
- Increased demand for new wireless services
- Stringent requirements related to the city’s Historic District

# Philadelphia, Pennsylvania

## NextG Solution

NextG launched a 400-plus node network that now provides the necessary capacity to handle a growing wireless user base and significant traffic surges, and add new services as needed. The deployment, which covers more than 100 square miles, is NextG's first major DAS network in the Northeast and positions the company as a coast-to-coast provider of DAS networks.

NextG's DAS solution provides high-quality performance for the visitors, residents and businesses of Philadelphia, including excellent voice quality, fast file transfer rates and the ability to support video-quality services. The network uses strategically placed low-power, fiber-optic-fed nodes that blend with the historic city's surroundings.



## Specifications

<b>Coverage Area</b>	More than 100 square miles
<b>Miles of Fiber</b>	About 250
<b>Number of DAS Sites</b>	Approximately 400
<b>Number of Jurisdictions</b>	Around 10
<b>Number of Permits</b>	Roughly 800

## Benefits

- Extensive wireless voice and data coverage
- Generous traffic capacity
- High-quality voice services
- Multi-carrier capability
- Infrastructure that blends with the landscape



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## NextG Networks Architecture

