

### San Diego Metropolitan Coverage

Crown Castle became involved with San Diego when the city needed a solution that could complement its traditional macro wireless infrastructure and address topography and zoning challenges. Wireless service providers (WSP) needed infrastructure in order to expand their wireless coverage in the area, increase the quality of calls made over their networks, and offer more wireless services to their customers.

Due to the extremely varied topography of the city and surrounding area—coastlines, snowcapped mountains, forests, deserts, valleys—traditional wireless infrastructure was not a viable option in order to support WSP growth.

#### Challenges

- Large and growing population with seasonal fluctuations
- Increased demand for improved wireless service
- Growing technology business sector that relied on high-quality wireless coverage
- Variety of topographies that created wireless coverage challenges

Today, Crown Castle's San Diego DAS deployment is one of the largest neutral host, outdoor commercial DAS networks in the United States. Crown Castle precisely located its new small DAS nodes in locations that address the RF challenges presented by San Diego's diverse topography. DAS nodes typically are placed on existing utility poles, street signs, and other locations in the public right of way. Crown Castle provides a neutral host solution that meets the community's requirements.

#### The benefits of the Crown Castle DAS network are:

- Enhances WSP wireless voice and data coverage, capacity, and quality
- Supports current and future wireless voice and data services from WSPs
- Serves multiple operators on a single system
- Minimizes future construction by using advanced fiber-optic technology
- Increases capability to add new services and WSPs
- Utilizes low-power, low-profile, unobtrusive equipment

Today, Crown Castle has a fiber network throughout the San Diego metropolitan area that can be used to serve macrocell sites and DAS nodes, stretching north to Del Mar, east to El Cajon, and south to Imperial Beach, as illustrated in the green areas of the map below. This extensive intra-city network is within a few blocks of most of the metropolitan area population and is ready for the addition of more DAS locations as mobile smartphone data traffic increases.

For more information, please contact 866.482.8890.



Above: Map illustrating Crown Castle's extensive fiber and DAS network (green).

Left: DAS installation on San Diego streetlight.

### About Crown Castle

Crown Castle (NYSE: CCI, member S&P 500) is one of the country's largest independent owners and operators of shared wireless infrastructure, including towers, rooftops and Distributed Antenna Systems (DAS), a type of small cell solution. With an enterprise value of more than \$20 billion, we own and manage more than 22,000 premium sites in 92 of the top 100 U.S. markets. And, with offices nationwide and more than 1,100 locally deployed employees, we have the resources to provide comprehensive site development services.



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