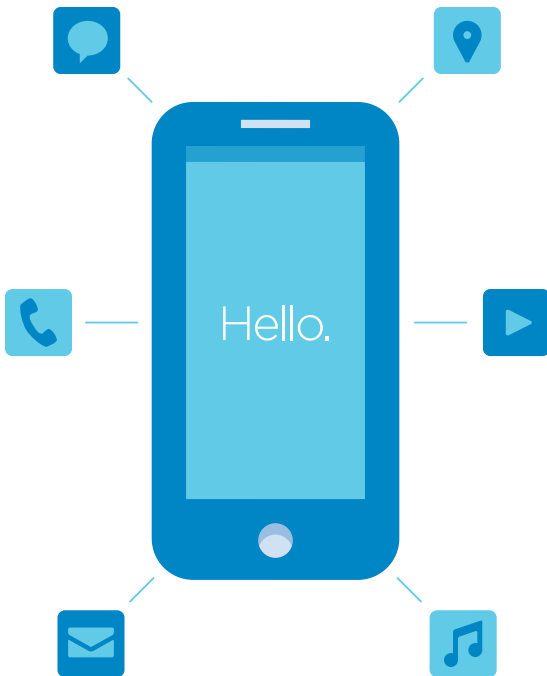


The infrastructure
behind your
wireless world.



In just a few short years, cell phones have gone from a novelty to a must-have. Today, it's hard to find anyone who doesn't have one. We use them to send texts, get directions, watch video, stream audio, check email, and yes, even make phone calls. Maintaining reliable service in the face of this changing landscape will require an expansion of the infrastructure that enables your wireless world. But which infrastructure is right for your community?



70%

of 911 calls are made
from wireless phones



50%

of mobile traffic
is video



over 40%

of households have
wireless service only



Learn more about wireless networks at:
crowncastle.com/communities

SOURCES:

"Wireless 911 services," Federal Communications Commission, 2015. Nielsen Cross-platform report, 2013. "Annual Wireless Industry Survey," CTIA, 2014.

The right infrastructure for your community.

Your community wants to stay connected. And to do that, we need to find the right infrastructure that will allow the expansion of networks in a way that improves your coverage. Our engineers consider several important factors, including your location, current usage, possible physical obstructions, existing nearby wireless infrastructure, and local zoning laws.

One possibility is a tower, like the ones you've no doubt seen on the side of the road or near your neighborhood. In urban areas, antennas on top of tall buildings serve the same function. Both types of cell sites provide voice and data coverage over a relatively large geographic area.



Traditional cell tower

Rooftop antenna

Increasing capacity.

Traditional cell sites have capacity limits. It's like cars trying to crowd onto a busy highway. The increased use of apps and data means it's rush hour all day long. The infrastructure that once served your community so well now easily gets congested.

So how do carriers expand a network that's at or near capacity? One option is a small cell solutions (SCS) network. SCS use a series of small, low-powered nodes that are placed on existing infrastructure like utility poles and streetlights in existing rights of way. These nodes are then connected by fiber optic cable to maximize capacity.



Small cells on streetlights and slimline poles

Are small cells the answer?

Every type of wireless infrastructure has its benefits, and none can completely replace another. Your community likely needs a combination of both small cells and macrocells (towers and rooftops). Because small cells use less power and more nodes can be placed closer together, they are often a good solution to relieve congestion issues. But it's important to note that an SCS is usually installed as a complement to existing infrastructure—not a replacement.



Small cells on utility poles

Everyone benefits
from reliable wireless
infrastructure.

Convenient

More reliable wireless coverage
throughout the community

Safe

Access to 911 services and better-
connected first responders

Business friendly

Attracts businesses and customers



The Foundation for a Wireless World

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.