
We Are Solutions
CROWN CASTLE

Porter Ranch Neighborhood Council
Crown Castle SCN/DAS Network

Neighborhood Council Meeting March 12th, 2013

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CROWN CASTLE

Benefits to Communities

- Optimal wireless coverage – Highly focused coverage objectives
- Visually unobtrusive equipment – Greater flexibility in addressing aesthetics
- Much lower RF emissions – Ultra low-powered amplifiers
- No cost to your community – No cost is passed through to the city
- New high-speed technology – Latest technology commercially available
- Easy to maintain and/or upgrade – Minimal disruption to maintain
- Accommodates multi-wireless operator infrastructure – Shared infrastructure
- Single point of contact – Crown has 24 hour hotlines for easy reporting

Crown's Technology

- Crown utilizes a wide range of shared infrastructure networks to offer wireless solutions to Carriers or other wireless service providers. Our systems are protocol agnostic and can be used by any WSP. Crown's neutral host system provides practical solutions with minimalized deployment impacts.

- Small Cell Network systems are fiber optic-based networks that utilize visually unobtrusive equipment to convert Radio Frequency (RF) into an optical signal which is then transported over fiber optic to a remote switching station.

- The converter box known as our Access Nodes have a low profile antenna component that can be designed to meet a range of aesthetic concerns and carrier technologies to be integrated on virtually any type of verticality.

Real Solutions

- Where feasible Small Cell Networks and Distributed Antenna Systems are deployed. Typically used where the following apply:
    1. Challenges with land use compatibility
    2. Focused areas of coverage or capacity
    3. Time to market

- Multiple range of configurations to suit the needs of a single carrier or planned colocation to host multiple carrie

- Mitigate community concern regarding RF emissions with ultra low-powered optical repeaters

- Smaller equipment allows for greater flexibility in addressing aesthetic concerns

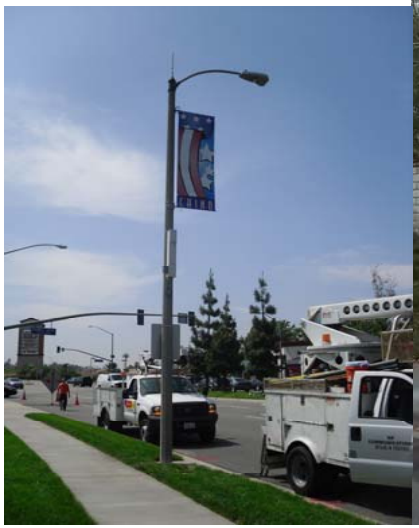
- Assisting the Wireless Industry meet the increasing demand for reliable and continuous coverage

HOA Successfully Deployed

Crown has negotiated agreements in the following HOA's:

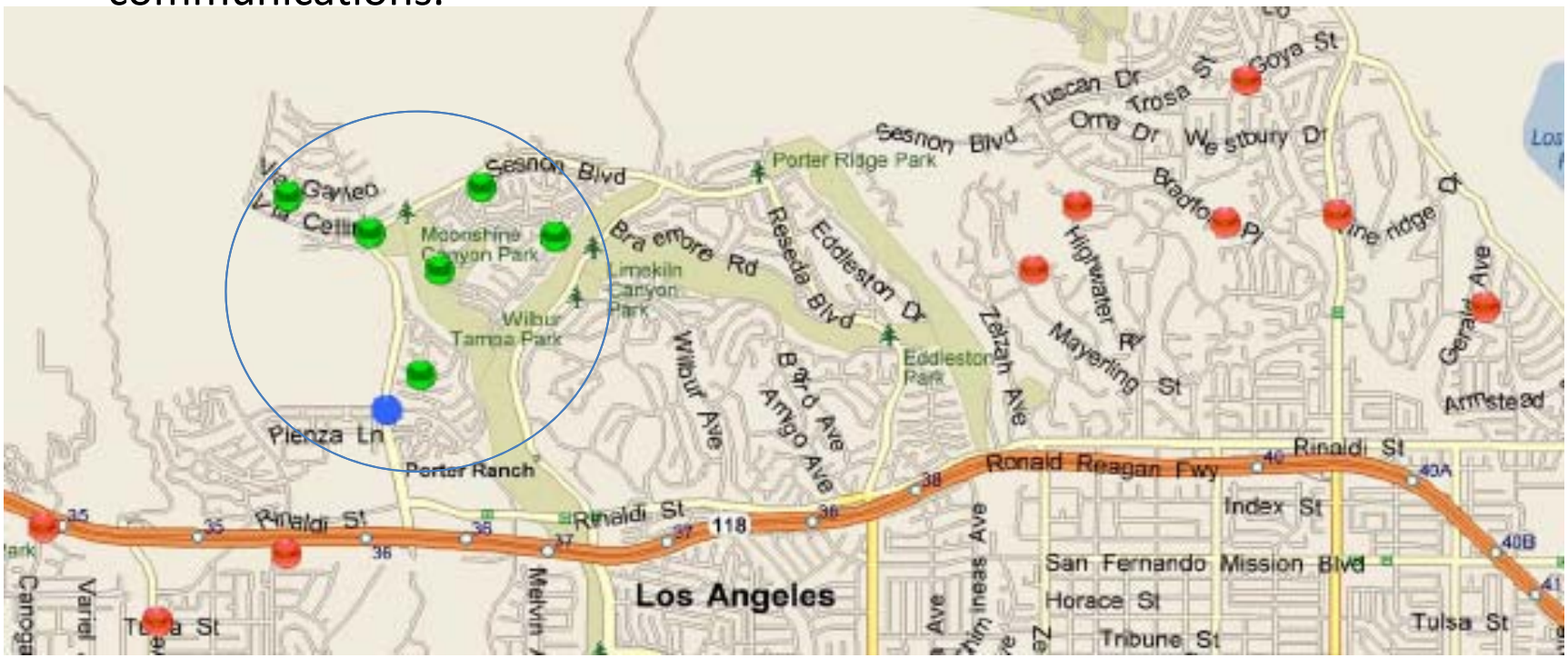
- Hope Ranch HOA, Santa Barbara
- Montecito HOA, Santa Barbara
- Rolling Hills HOA, Los Angeles
- 30+ HOA's in Scottsdale, AZ

Sample Photos – ROW Installations



Current Status

- Proposal to deploy a 7 node network in District 11, Porter Ranch Community, within HOA properties.
- Looking to negotiate an agreement with The Renaissance, The Heights and the Porter Ranch Estates communities to improve voice and data communications.



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Ordinance Revision

- In April of 2012 Crown Castle was notified of an order for the City Attorney to provide a list of options for possible ordinance revisions. The request made by Council was in response growing concerns of proliferation.

- In May 2012 Crown Castle initiated discussions with City Attorney, Ted Jordan, to understand and proactively address concerns regarding ordinance revision.

- In June 2012 Crown Castle implemented an Outreach Program in an effort to provide technical updates to the various Council District Offices with hopes of continued support to recognize and promote smaller technologies.

Questions?

Conclusions

- Crown Castle is a Public Telephone Corporation offering access to shared infrastructure and transport services as the *“Carrier’s Carrier.”*
- Small Cell Networks and Distributed Antenna Systems solutions typically have much lower RF emissions (smaller footprint) and are supplemental to traditional Cell Towers.
- 90% of our neutral-host network is comprised of fiber optic cables used to interconnect Distributed Antennas back to an aggregate point.
- Currently proposed network contingent upon negotiation of a Usage Agreement with HOA’s.
- Actively participating in ordinance revisions. Proactively reaching out to various Council Districts to understand and address concerns.