

Municipal DAS Issues

DAS Summit

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Municipal DAS Issues

◆ It's the Towers...

- A decade of PCS buildout, 2+ decades for cellular
- Cellphones no longer just for the rich
- People want their cell service
- They see lots of ugly towers
- Not in my back yard!
- There must be a better way...

Municipal DAS Issues

- ◆ DAS is compelling
 - People are used to infrastructure in our lines of communication (highways and streets)
 - Asphalt
 - Guard rails, sidewalks, roadsigns, traffic lights
 - Drainage
 - Sewer, water, gas
 - Utility poles, lines, and cabinets

Municipal DAS Issues

- ◆ DAS is compelling
 - People perceive foreground, middleground, and background differently.
 - Tower structures are often seen as disproportionate and out of character with certain environs
 - ◆ They Loom,
 - ◆ They Pierce Skylines,
 - ◆ They add an Industrial Appearance to the land use
 - ◆ The eye sees them as massive undertakings in the middleground and background

Municipal DAS Issues

- ◆ DAS is compelling
 - People perceive foreground, middleground, and background differently.
 - Utility pole mounts are the opposite:
 - ◆ In the foreground
 - ◆ In proportion to their surroundings
 - ◆ Generally don't Loom
 - ◆ Generally do not Pierce Skyline
 - ◆ Generaly hide in plain sight with other infrastructure

Municipal DAS Issues

- ◆ Wireless Facility Siting can be adversarial
 - No long-term wireless facility planning
 - Threat of federal lawsuit looms over wireless applications
 - Industry entrenched in current site-development mode
- ◆ Municipalities must be gatekeepers for sensible development over long term

Municipal DAS Issues

- ◆ How Do You Encourage Low-Impact, Low-Profile Wireless Development?
 - Municipalities must:
 - Understand the options that apply in their communities
 - Lower the hurdles for approving preferred outcomes (that are workable)
 - Raise the hurdles for less desirable outcomes

Municipal DAS Issues

- ◆ Municipal Process Meets Business Process
 - Traditional Wireless Facilities
 - Facility Siting Based on the Search Ring
 - Negotiation and Contracting
 - Permitting on Site-by-Site Basis
 - “*This is the only site*” Permit Thresholds
 - Nearsighted Business Plan Meets Desire for Comprehensive Long Term Plan

Municipal DAS Issues

- ◆ Municipal Process Meets Business Process
 - DAS Networks
 - Search Ring?
 - Non-traditional site acq.
 - Multiparty Negotiation and Contracting
 - Permitting Often Not Understood or Defined by Muni
 - Mythology Goes Both Ways
 - DAS Plan Closer to Meeting Desire for Comprehensive Long Term Plan

Municipal DAS Issues

- ◆ Municipal Process Meets Business Process
 - ROW vs Parcel in Zoning District
 - How Does Ordinance Apply?
 - Who Regulates?
 - What Are the Criteria?

Municipal DAS Issues

◆ Thank You

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- RF exposure prediction, measurement, and RF program design
- Signal propagation modeling and field measurement
- Wireless application review, wireless site RFP support, ordinance revision support
- RF science projects and expert testimony