

CarrierClass Deployment Services, LLC (CCDS) provides management consulting and infrastructure deployment services to the broadband telecommunications industry. CCDS's primary focus is delivering a wide range of expertly managed and implemented services and systems to wireless service providers, corporations, public entities and owners of towers and other antenna supporting structure.

CCDS's ownership has more than 20 years of hands-on experience in the broadband telecom arena. We have worked directly with every major wireless service provider, governmental bodies, major tower companies, and real estate portfolio owners.

Our Services

- Wireless site identification and leasing
- Wireless site zoning and permitting
- Wireless site development project management
- Wireless Backhaul Network Deployment
- Network design support services
- Microwave transmission systems design, E F & I, and maintenance
- Cell site backhaul & transmission network engineering
- Comm site hardening services
- Comm site power systems E F & I and upgrades
- Two way radio system design, E F & I
- Wireless site portfolio market assessment
- Wireless site acquisition due diligence
- Existing site audits
- Landlord issue resolution
- Rooftop site management
- Riser/intra-building facilities management
- New tower development, ownership, leasing, and management
- Public entity site development & management consultation
- Collocation facility development.
- Site Structural Analysis
- Microwave System Deployment Support
- Site Maintenance Services
- Cell Site Interconnect Network Engineering Support

Recent Clients

- AT&T Mobility
- AstraZeneca Pharmaceuticals
- Advance Realty
- Hardscrabble Hill Development Group
- PPL Telcom
- The National Park Service
- Mediacom Cable
- T-Mobile
- Sprint PCS
- Fox Commercial Real Estate

Recent Project Experience

- **150 Site Cellular Carrier Acquisition Project (2005-06)** – Performed all site acquisition services for a highly demanding, quality focused carrier.
- **Mobile Switching Center to Backbone Hub Microwave Interconnect (2005-06)** – Provided turnkey

engineer, furnish, and install of a 12 x OC3 - 11 GHz microwave interconnect. System cutover completed 60 days ahead of project schedule, providing capacity in place of indefinitely delayed new fiber facilities

- **Wireless Backbone Microwave Site Power System Upgrade (2005)** – Completed extremely critical upgrade of utility power and backup generator facilities at a rural microwave junction site.
- **Wireless Backbone Microwave Mobile Switching Center Terminal Facility Upgrade (2005)** Performed turnkey upgrade of an existing microwave terminal facility including new interior enclosure, HVAC, power distribution, and alarming. Project completed 30 days in advance of actual due date at a cost that was 30% less than the initial estimate.
- **Microwave Site Interconnect Project (2003-05)** - Performed all site acquisition activities for the initial phase of this 15 site 3xOC3 backbone microwave build out on existing cell sites in two major metro area market.
- **Wireless Backhaul Microwave Short Haul Spur Microwave Project (2004-present)** – Currently performing all site acquisition services for a multi-site microwave project utilizing spread spectrum radio technology.
- **Site Sound Mitigation Services (2005)** – Performed ambient area sound analysis, and then designed and constructed an ordinance compliant sound barrier system in support of the lawful operation of a generator backup system for a backbone microwave hub site.
- **Alternate Site Availability Analysis (2005)** – Performed a wide area analysis of sites available for collocation in support of a highly challenging zoning variance application. Investigation included identification, field verification, and development of both technical and economic rationales for disqualification of various sites to the satisfaction of a highly demanding municipal entity and a citizen objector group.
- **Fortune 500 Corp. Headquarters Rooftop Management (2004-present)** Current exclusive rooftop management firm for a prominent high rise office building w/ 4 broadband PCS/cellular tenants and numerous other wireless users. Site is highly secure, and requires extensive coordination between tenants and owner.
- **MSC Microwave Interconnect Project (2006)** Turnkey project from system design through cutover of a 12 x OC-3 digital microwave system interconnecting two mobile switching centers. System availability performance end-to-end objective substantially exceeded 99.999%.

For more information on CarrierClass Deployment Services and how we can assist you, please contact CEO Jim Innes at 267.481.1461 or by email to james.innes@carrierclasstowers.com. We look forward to working with you.