

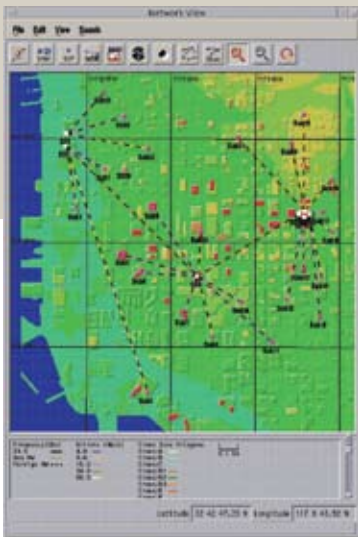


Comsearch can design an optimal Wireless Backhaul system to meet your network's unique requirements.

Expert Planning for Wireless Backhaul Solutions

Comsearch engineering services offer the expertise, tools, and experience necessary for successful planning, management, and implementation of Wireless Backhaul systems. Whether it's IP Ethernet or traditional T-1, DS-3, or OC-3 lines, we can design a wireless network to meet your needs. Our services use the latest software and databases available to assist our customers in finding the most efficient options for their Wireless Backhaul networks.

Comsearch staff have unique knowledge in wireless network engineering and industry standards, and we have the regulatory expertise to engineer a reliable, scalable backhaul system. We have designed wireless backhaul systems for cellular carriers, alternative access carriers, utility companies, state and local government, and other private companies.



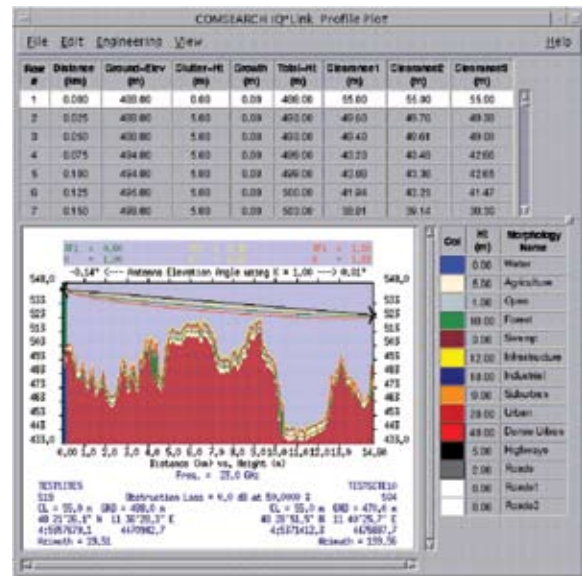
Expert Planning for Wireless Backhaul Solutions

Project Management Services include:

- **Project Planning, Oversight and Scheduling**—We develop project definition, scope, and deliverables to meet project goals. We provide ongoing management of project teams to ensure that milestones are met. We schedule project review meetings with the project team and client.
- **Personnel Management**—We develop a resource plan and matching qualifications to the overall project requirements.
- **Cost Management**—We develop budgets and monitor expenses to stay within cost guidelines.
- **Risk Management**—We monitor ongoing activity to identify and assess potential risks to the project.
- **Quality Management**—We establish quality measures and controls to meet and exceed the customer's expectations.

Preliminary Backhaul Design Services include:

- **Topology Analysis**—determine the best configuration for your network (star, ring, tandem) that meets your connectivity, reliability, and redundancy requirements.
- **Capacity Planning**—ensure sufficient throughput on each network segment with scalability for growth and aggregation efficiencies.
- **LOS Feasibility**—evaluate LOS (line-of-sight) feasibility for each link based on clearance criteria and antenna height possibilities. We use our advanced iQ-link® software for rapid LOS analysis from a hub site to many other sites with building data (where available).
- **Band Selection**—determine frequency band options based on path length and reliability calculations considering multipath and rain outage.



Detailed Backhaul Design Services include:

- **Path Survey**—confirm LOS on planned links with field survey that identifies any potential obstructions (trees, structures, etc.). Document surveyed site coordinates and possible antenna heights for input into detailed design.
- **Detailed Path Engineering**—conduct analysis to determine final equipment selection, antenna types and heights, transmission line lengths, and other operating parameters based on desired performance criteria.
- **Frequency Engineering**—perform interference analysis to assign appropriate frequencies based on existing RF environment that ensures system will not be degraded by unwanted interference.
- **FCC Licensing**—conduct FCC-required Prior Coordination with other wireless users, prepare FCC applications and submit for electronic filing as necessary.



If you have any questions about our services, please contact us at customersupport@comsearch.com or 800-318-1234.

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