

LTI DataComm Professional Services

Optimizing and Protecting Your Microwave Network

LTI's Professional Services provide a broad range of services to help our customers design, install, maintain and optimize the performance of their microwave solutions. We work with our customers to offer tailored solutions that meet the unique requirements of their individual systems. Our depth of experience and past performance is leveraged to offer our customers:

- **RF Engineering & Design**
- **Installation & Commissioning**
- **Tower & Site Maintenance**

Building on our core values - Safety, Right-Sized Engineering, Quality, and Service – we provide our clients a hassle free experience and superior work product on every project.

RF Design & Engineering

A microwave system only operates as well as the design will allow. We believe engineering the right solution is a critical first step in our customer's program. LTI possesses vendor trained and certified in-house expertise in RF microwave design & engineering. Our team can provide:

Site surveys and initial path profiles: LTI uses established internal processes and tools to evaluate site parameters that impact equipment placement, link budget calculations, construction requirements, tower space availability, and site security. LTI can also prepare a path profile, and ideally walk each prospective propagation path to determine link clearance and identify critical points of interest that may affect the link design.

Final path engineering and link design: LTI will evaluate the findings from the field surveys and compile a final link budget, designing a package that specifies the frequency channel, design parameters, and Bill of Materials (BOM).
Frequency plans and FCC licensing: If licensed channels are required, LTI can support the client with the submittal of the Prior Coordination Notice (PCN) for each link and filing the FCC form 601 for license applications on behalf of the customer.

Services Overview



Microwave, Tower & Infrastructure Professional Services:

- **RF Engineering & Design**
- **Installation & Commissioning**
- **Tower & Site Maintenance**

Services Overview



Installation & Commissioning

Our in-house technicians and tower personnel round off our full service microwave deployment team. They are trained in site construction, tower erection, and the latest assembly, rigging, and system installation procedures with hands-on experience in all aspects of site turn-up. As a full turn-key solution LTI will install the antennas, cabling, and radio system and perform standard commissioning and testing procedures before handing over a complete and active link to the client. Our team provides:

- Project management
- Site Construction
- System design, engineering, coordination and licensing
- Tower Erection
- Antenna system installation and testing
- Radio system installation, testing and integration
- Field testing, training and acceptance
- Emergency support, troubleshooting and maintenance

Tower & Site Maintenance

Tower & site maintenance is one of our core service capabilities at LTI. We understand the importance of maintaining and protecting your assets and can be your "eyes and ears" in the field to report on the condition of existing infrastructure or validate installation done by a third party. Our reporting process and documentation packages solidify our service effort and provide you with validation on the condition of your system and network. For recurring on-site maintenance, LTI will tailor a program to fit your needs. We are also available for non-contract call outs at any time during critical outages.

LTI offers contract maintenance services in the following disciplines –

- Tower inspections, audits, and repairs
- Microwave system maintenance
- Antenna and line inspections and maintenance
- Antenna and path optimization services

If you are looking for additional services, want to consolidate your maintenance contracts, or would like to discuss a custom tailored maintenance agreement to fit your needs and budget please contact us to discuss your needs in detail.

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