

Network Provisioning Services

/// FIXED NETWORK ENGINEERING SERVICES PORTFOLIO ///



NETWORK PROVISIONING SERVICES

Network Provisioning Services are a key component of any wireless and wireline carrier's operation. Typically, the provisioning function is performed within the Network Operations department, and the team interfaces internally with Transport Engineering, Switch Operations, and Field Operations, as well as with the ILEC and CLEC facility providers. LCC has performed and continues to perform provisioning services for many customers for business-as-usual applications as well as special turnkey projects supporting new market launches, network overlays, or technology migrations. Through the transport and access projects performed nationally over the past decade, LCC has provisioned, connected, tested, and accepted over 16,000 circuits, including T1, DS3, and OCN levels. LCC's provisioners can be assigned to perform these services at the customer's premises, or the team can operate remotely depending on the project requirements and the customer's preference. LCC will work with each customer to develop a solution that best fits its individual objectives.

SERVICES OFFERED

- > **Circuit Ordering** – LCC's FNE provisioners will follow each customer's internal processes for administering circuit orders.
 - Submission of ASRs for interconnect and special access circuits using all relevant LEC and IXC platforms (ex: CSG, CAFÉ, etc.)
 - Submission of follow-up and escalation activities to manage FOC dates and circuit deliveries.
 - Updating project trackers with all provisioning dates and circuit information.
- > **Circuit Disconnect Ordering** – LCC's FNE provisioners will manage circuit disconnects in the event of network migrations or trunk group debuilds.
 - Submission of disconnect orders using all relevant LEC and IXC platforms.
 - Performance of follow-up and escalation activities to manage FOC dates.
 - Updating project trackers with disconnect dates and circuit information.
- > **Test and Turn Up Coordination** – LCC's FNE provisioners will manage the proper acceptance of new circuit deliveries.
 - Coordination of test and turn-up activities between facility providers and the customer's Switch Operations team.
 - Coordination among all parties to help trouble shoot circuit issues.
 - Escalation of missed due dates with service providers.
- > **Equipment Port Assignments and DACS Cross-connections** – LCC's FNE provisioners will specify equipment port assignments for new circuit installations.
 - Review existing equipment port assignments and identify available ports for new circuit installations, i.e. T1 and DS3 ports on the DACS.
 - Specify required cross-connect assignments for the Switch and/or Transport Operations teams.
 - Submission of internal tickets/orders for port and cross-connect builds.
 - Coordinate with the network database team (e.g. Granite, Metasolv, Cramer) to ensure design data is recorded accurately.

PROJECT EXAMPLES

- > For a three-year project, LCC provided project management services and teams of circuit provisioners, installers, and testers responsible for providing T1 transport facilities and installation of Integrated Access Devices (IADs) to more than 11,000 cell sites on a national GSM network. LCC's engineers led the development of the T1 Testing and Acceptance Procedure, and this document has gained wide acceptance and has since been adopted as a standard methodology on subsequent projects throughout the customer's organization. In addition to submitting and tracking ASRs, the LCC provisioning teams were responsible for coordinating the activities of ILECs, construction managers, market managers, and field techs, as well as developing and presenting detailed project tracking reports for management and executive teams. The LCC team achieved some of the highest rates of T1 completion in the industry for ordering, installing, and testing and received recognition from the network operator and contract partner for outstanding contribution to the success of the project.
- > For several years, LCC has maintained a team of design engineers and provisioners for a large U.S. mobile carrier to support network operations in the Northeast. This team has been responsible for circuit design, ASR submittals, trunk design and provisioning, LEC management and site integration support. Since its initial engagement, LCC has provisioned more than 300 DS3s and designed and provisioned more than 4,000 T1s in support of capacity growth, new site builds, network integration and UMTS build programs. LCC's engineers have also been involved in implementing and maintaining circuit inventory databases.
- > For more than a year, LCC has maintained a team of engineers providing BSS integration services for a large mobile carrier in support of its market deployments throughout the Carolinas. This team has been responsible for turnkey T1 integrations, including DACS provisioning and circuit test and acceptance, as well as writing data transcripts for new site deployments and channel additions and modification.
- > LCC has recently embarked on a centralized provisioning program supporting all circuit provisioning services for the South Region of a national mobile operator. LCC houses and manages the entire provisioning team outside of the customer's facilities, and all provisioners are equipped with remote access to the customer's internal ticketing system, as well as LEC order processing accounts. This arrangement represents a fully outsourced solution to the client, and it helps to streamline Operations and improve OPEX.

Network Provisioning Services

LCC has the expertise and experience to address all of your Fixed Network Engineering needs.

Service Offerings Include:

- > Transport Design
- > Turnkey Microwave Services
- > Network Optimization Services
- > Circuit Provisioning & Testing Services
- > Switch Support Services
- > Network Database Services
- > Network Inventory Services
- > RF Testing & Measurement Services
- > BSS Expansion & Integration Services
- > Broadband Wireless Services
- > IP Solutions

For more information on LCC and our Fixed Network Engineering services, please contact us at (703) 873.2000 or visit us on line at www.lcc.com.



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