



## NETWORK DATABASE SERVICES

Network database services complement the engineering planning and design services offered by LCC. Throughout the years, LCC has performed a variety of database services ranging from network audits, process development, data entry and validation, implementation, and operations support. Services can be provided on a system turnkey basis or through staff augmentation by utilizing a wide range of subject matter experts. LCC will work with each customer to develop the solution that best fits the individual project objectives. LCC's Fixed Network Engineering (FNE) department offers a full range of audit, data entry, data validation, process management, documentation and training services to ensure a smooth network database system implementation.

## SERVICES OFFERED

- > **Database Strategies** – LCC will participate and provide subject matter expertise in all areas of Network Database integration.
- > **Telecordia's Granite (Xpercom/Xng), Metasolv's TBS™, and other database applications** – The LCC team will assist in the development of Methods of Procedures (MOPs) and strategies for database validation, OSS integration, and BAU processes. LCC will also represent its customers for product and standards development.
- > **Data Validation** – LCC will conduct audits of cell site and network equipment inventories to verify the integrity of information to be transferred into integrated OSS systems.
- > **Data Entry** – LCC engineers will support the data integration process, whether for BAU network growth and evolution or for special turnkey projects associated with new launches or network overlays. This service typically includes:
  - Generating equipment rack, shelf, & port configurations, as well as cable templates
  - Building circuit segments
  - Assigning segments to end-to-end circuit paths
  - Building trunk parameters, including MSC port, tandem CLLI, DPC, OPC, etc.
  - Updating path data with respect to circuit rolls or disconnects
- > **Network Design** – LCC engineers will use database applications to select port assignments and CFA assignments/circuit paths to design network configurations in support of new deployments or migrations.
- > **Project Management** – For turnkey requirements, LCC will coordinate project activities and track and report implementation progress.
- > **Database Application Training** – LCC will provide training on application account setup and system navigation.

## PROJECT EXAMPLES

- > For a year-long engagement, LCC has supported a national mobile operator with circuit inventory audits and reconciliation of network assets in its Xpercom/Xng database for several markets throughout the Mideast Region. In addition to reconciliation of the customer's established networks, LCC's engineers also supported the comprehensive data integration of new network acquisitions. The engineers were responsible for physical equipment audits, collection of circuit inventories (DS1 to 0Cn) from acquired operators as well as LECs, data validation, data entry using Xng (equipment, segment, and path), and project tracking and coordination.
- > For a national mobile operator, LCC recently performed comprehensive site audits and database integration for two equipment locations in Florida. The audits covered MSCs and all ancillary equipment down to the fuse panels. All equipment interconnectivity was also inventoried and all equipment and circuit paths were generated using Xng. Upon completion of the database integration, LCC provided training and documentation to the customer on WebXng account setup and system navigation.
- > For several years, LCC has maintained a team of design engineers and provisioners for a large U.S. mobile operator 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. The engineers utilize the network inventory database to identify available equipment ports and circuit channels when developing new transport designs. The team is also responsible for updating the database when those new designs are implemented. 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 recently supported a national mobile operator with audits of T1 circuits and demarcation equipment at all cell sites throughout the Los Angeles market. In addition to the physical audit task, the LCC team was responsible for reconciling the actual audit results with the existing Xng database as well as other engineering databases maintained by the customer. There were significant discrepancies between the various sources, and this project helped to identify recorded circuits that were no longer active or were simply not in use at the actual cell sites.

# Network Database 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](http://www.lcc.com).



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