

Ylink Company Services

Services Description



YLINK FOR TELECOMMUNICATION LLC.

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Services Description

YLink is specialized in total turnkey acquisition, survey, design, execution network optimization and maintenance of telecommunication projects whether it is a single product or a turnkey project.

Our focus is centered on **GSM sites construction** , **network (Planning, Optimization)** and **maintenance of sites** providing a thorough realization through our experienced technical staff any and all challenges whether technical, managerial, or territorial; utilizing state of the art techniques acquired.

Radio Network Design:

1. New design
 - New Network Design
2. Capacity/coverage enhancement
 - Macro Cell Expansion
 - Micro Cell Expansion
 - Indoor Design
3. Capacity enhancement
 - Dual Band
4. Capacity/quality enhancement
 - Frequency Re-planning
 - Tighter Frequency Reuse
5. Packet data radio network design
 - GPRS/EDGE Radio Network Design

All above services are built up by a number of modules and can be tailored according to the customer requirements. The following modules are defined for the RND Services:

- Map Data Handling
- Propagation Model Tuning
- Database Handling & Review
- Nominal Plan / Initial Design
- Site Selection/Evaluation
- Site Acquisition
- Frequency Planning
- Final Design
- Preparation of Cell Design Data
- Consistency Check & Initial Tuning

Transmission Network design & Network Optimization:

Transmission Network Design

- New Transmission Network Design
- Line of Sight (LOS) Survey
- Microwave Frequency Planning

Transmission Network Optimization

- Transmission Capacity Optimization
- Transmission Performance Optimization

All above services are built up by a number of modules. The following modules are defined for the TRMDO Services:

- Map Data Handling
- Database Handling & Review
- Nominal Plan / Initial Design
- LOS Survey
- Site Positioning Evaluation
- Network Media Decision
- Microwave Frequency Planning
- Final Transmission Plan
- Preparation of Network Data

- Integration to Management System
- Link Capacity Analysis
- Link Performance and Availability Analysis
- Reporting

Sites Implementation:

1. Preparation and Planning
 - Radio Site Engineering
 - Civil Work (CW) Detailed Design
2. Implementation
 - Civil Works (CW)
 - Telecom Implementation (TI)
3. Integration
 - Test & Commissioning
 - Acceptance

All above services are built up by a number of modules. The following modules are defined for the CWTI Services:

- Civil Works Survey
- Radio Site Allocation Design
- Radio Site Cabling Design
- Warehouse & Logistics
- Construction Works
- Radio Base Station (RBS)/Base Transceivers System (BTS) Installation
- Transmission (TRM) Installation
- Final Check
- Test & Commissioning
- Acceptance Tests
- Documentation/Database Creation/Update

Network Optimization:

1. Radio Network Optimization
 - Overall Radio Network Performance Monitoring

- Benchmarking
- Radio Network Performance Improvement
- New Site Verification
- Frequency Spectrum Analysis
- Emergency Support
- GSM/GPRS/EDGE/HSDPA Field Measurements (2G-3G).
- Voice Quality Measurements

2. Radio Network Maintenance

- Corrective Maintenance
- Preventive Maintenance
- Planned Activities

All above services are built up by a number of modules and can be tailored according to the customer requirements. The following modules are defined for the OptMa Services:

- Drive Testing
- Frequency Scanning
- Drive / Scan Test Analysis
- Statistical Analysis
- Short & Long Term Recommendations
- Reporting
- HW Failure Restoration 7/24
- Periodical Test & Inspection Activities
- HW Checks / Configuration Changes

Sites Maintenance:

O&M SUPPORT ACTIVITIES:

1. 24 hours hotline service to handle all incoming alarm from the client's Network supervision team & communicate it to the respective zone office.
2. 24 hours Technical Support Unit responsible for providing the following services:
 - Coordinates all client requests with various operations offices
 - Provides Technical support to all maintenance Engineers while troubleshooting alarms
 - Provides continuous training to the technical staff

- Implement & update technical updating procedures
 - Performs site audits
3. Analyze corrective maintenance requests (alarms) to identify repetitive problems & come up with technical solutions to rectify or eliminate fault causes.
 4. Research & develop engineering solutions to enhance site/network quality, performance, efficiency, reliability &/or operability.
 5. Monitor site quality performance indicators, fuel & oil consumption rates, battery measurements ...etc. Report & take corrective action as necessary.
 6. Analyze equipment /system faults found between preventive maintenance tasks, investigate causes, & take corrective action to prevent re-occurrence. Alert client of external problems affecting site condition.
 7. Liaise, coordinate, & execute work between client & public organizations i.e. TE, Electricity company etc...
 8. Make an annual file per site to show site performance, development, and current status & identify means for improvement.
 9. Make cost analysis to determine annual site expenditure