



ENGINEERING SERVICES

SERVICE DATASHEET



Cost-effective service delivery without compromising quality

MobileComm is National Leader in providing outsourced network engineering services and project management. We deliver engineering and provide technical solutions for telecommunication infrastructures, Wireless operators and OEM's. MobileComm helps clients meet their business objectives by providing a wide spectrum of engineering consulting services. From developing and refining a network deployment strategy to business implementation services.

A Quality and commitment process with which MobileComm initiates every assignment enables us to achieve common goal of meeting schedule and deliverables. Our Project Management is reason for success of all assignments helping us exceed our clients' expectations.

MobileComm's business strategy is to continually enhance our capabilities offering new services and solutions; this has allowed us to maintain our growth and customer base. Our present service spectrum comprise of five verticals.

- Network Planning and Design
- Network Optimization and Performance Engineering
- Drive Testing, Data collection and analysis
- Installation and Commissioning
- Operations and Maintenance

Whether MobileComm personnel are designing new technology network or supporting mature networks, our experienced consultants and Engineers using our proven procedures and methodologies help our clients get to market and build revenue fast.

Network Planning and Design

Sound network planning is vital for successful network deployment. MobileComm has experienced personnel to ensure capacity, coverage and quality - translating into revenue and subscriber growth. Planning a mobile network effectively requires a dynamic combination of Radio Frequency (RF) experience, demographic information and market-specific familiarity. It also depends on reliable and up-to-date software products to support mission-critical engineering functions.

MobileComm personnel attend and participate in various training programs that address the unique requirements of new technology and equipment as well as those mandated by our customers. Our RF engineering experience is a result of consulting numerous assignments. We have experience on all major wireless technologies – GSM, CDMA, TDMA, iDEN, UMTS, GPRS, 1xRTT, EDGE. Additionally, we have experience on Microwave networks, satellite networks, broadband networks.



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MobileComm Professionals, Inc. offers a range of services to help develop strategic technical and operational plans for a successful business strategy to align clients develop competitive edge. MobileComm consultants recommend strategies to help our clients take full advantage of their network capabilities, network dimensioning and financial forecasting model

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MobileComm can provide complete network planning and design services for wireless technologies.

- Identifying coverage objectives
- Setting signal strengths for appropriate service levels
- Identifying strategic coverage objectives
- Vendor and technology selection

Based on initial RF analysis and planning, we can provide network architecture and implementation to ensure that each network meets the client's requirements. Our network design services include:

Preliminary Design Tasks

- Define RF Requirements
- Collect Market Data
- Morphology Classification
- CW Drive Testing (for propagation modeling)
- Initial Model Tuning
- Traffic Distribution and Capacity Design
- Initial Coverage Design
- Link Budget Calculation
- Antenna and Feeder Design
- Antenna Sharing & Coupling Systems Design
- Define Search Areas & Issue Search Rings
- Preliminary Design Report

Final Design Tasks

- Define Visit and Survey Candidate Sites
- Preliminary Candidate Propagation Analysis
- Candidate Validation Drive Test
- Final Candidate Analysis
- Site & Candidate Evaluation Reports
- Network Propagation Analysis
- Frequency Planning
- C/I and C/A Analysis
- Site Database and Final Site Specs for Construction
- Neighbor List Generation
- MSS/NCF/RF Parameters to Database Engineering
- Final Design Report

Network Optimization and Performance Engineering



Network usage patterns, radio signal radiation patterns and the interference behavior, all are dynamic in their own way. After launching wireless networks, there is a need for regular updating, calibration and tuning. Optimization acknowledges fine tuning of the network maintenance and increases performance of the network and radio resources.

MobileComm's RF Optimization Service enables clients to determine the optimal configuration for wireless networks. Our engineers analyze and identify factors, which affect network performance, based on which we recommend and implement optimization solutions to ensure that the network performs at its best.

- Network Performance Monitoring
- Audit RF Parameters
- BTS Hardware verification
- Cell Site Coverage verification
- Cutover cluster Test
- Specialized system Test Preparation
- EDGE, 1xRTT, First Market application
- Data Collection & Analysis
- Benchmarking
- System Verification
- Data throughput optimization
- Technology upgrade Support
- GSM > GPRS > EDGE > UMTS
- IS 95 > 1xRTT > 1xEVDO > 1xEVDO

MobileComm gathers processes and analyze network key performance indicating data recommend and implement both software and hardware changes that result in the maximum level of network performance.

For more information regarding MobileComm's Engineering Services, please visit our website

www.mcpsinc.com/enggservices

