CelPlan Engineering Solutions



Your Single Source for Wireless Engineering, Consulting, Training and Technology Transfer

Multi Country Presence

Fully functional subsidiaries in:

- ♦ USA
- Brazil
- ◆ Argentina ◆ Chile
 - . .
- ◆ Uruguay ◆ Peru
- ◆ Colombia ◆ Mexico

Independent

- Employee owned company
- ◆ No connection to vendors

Service Off-loading

◆ Off-load of service peaks

Outsourcing Model

◆ CelPlan does all required service

Development of in-house team

- Mentoring
- Management Consulting
- ◆ Technology transfer

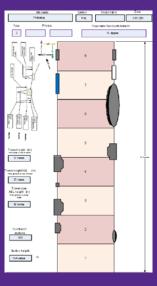


• Other global offices in North America,

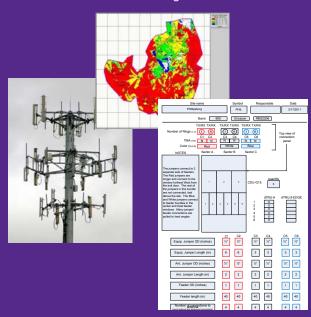
South America, Europe, Africa and Middle East

CelPlan has rapidly established itself as an innovative leader in providing the most advanced engineering solutions for the wireless industry. CelPlan brings a powerful and sophisticated portfolio of engineering capabilities to bear on the design and development of 3G and 4G networks

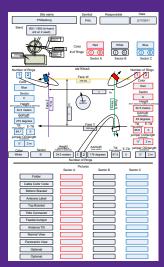
Technical Site Survey



Drive Testing



Network Optimization





Professional Services

Technical Site Survey (TSS)

- ◆ Documentation of existing installations
- ◆ Audit of existing installations
- ◆ Analysis and proposal for expansions
- ◆ Tower and equipment room survey
- ◆ CelDoc allows access documentation from web
- ◆ Cable and connectors testing (distance to fault and VSWR)
- ◆ Interference measurement at antenna port

Drive Testing (DT)

- ◆ Spectrum Scanning
- ◆ Call performance (short and long)
- Multi-technology
- Fading measurements
- ◆ Indoor loss characterization
- Multi floor building loss

Phone Compatibility Test (PCT)

- ◆ Stationary call placement
- ◆ In movement call performance
- ◆ Issues analysis and recommendations

Network Optimization

- ◆ Footprint optimization
- ◆ Frequency planning
- ◆ Performance Analysis
- ◆ Statistics analysis
- ◆ Parameter Optimization

Tast Execution (TE)

- Specialized man power
- ◆ Multi-disciplinary capability

Project Management (PM)

- ◆ Deployment management
- ◆ Vendor coordination
- ◆ Network acceptance

Consulting

Green Field Operations Support

- ◆ Business Case Preparation
 - ◆ Market Analysis
 - ◆ CAPEX/ OPEX/ ROI
- ◆ Market Studies
 - ◆ Market survey
- ◆ RFI/RFP Preparation
 - ◆ RFP base design
 - ◆ Bid preparation
 - ◆ Question replies
- ◆ Equipment/Vendor Selection
 - ◆ Proposal Analysis
 - ◆ Negotiations support

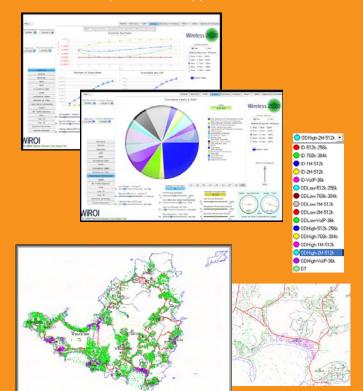
Network Operation Support

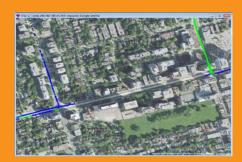
- ◆ Network Design
 - ◆ Traffic demand analysis
 - ◆ Site location/ configuration
 - ◆ RF propagation prediction
 - ◆ Propagation model calibration
- ◆ Network Optimization
 - ◆ Neighborhood Optimization
 - ◆ Handover Optimization
 - ◆ Frequency/ Code Assignment
- ◆ Network Studies
 - ◆ Statistics analysis/ recommendations
 - Parameters optimization
- ◆ Network Audits
 - ◆ Drive Testing
 - ◆ Performance and issue reports
- ◆ RF Interference/Safety
 - ◆ Exposure verification

Specialized Studies

- ◆ R&D
- ◆ Software Development
- ◆ Enterprise solutions

Green Field Operations Support





Network Operation Support





Training and Technology Transfer



Training and Technology Transfer

Technology Training

- ◆ Wireless Basic Principles
- ◆ GSM/GPRS/EDGE
- ◆ Cdma2000/ EVD0
- ♦ WiMAX, LTE, WIFI
- ◆ Wireless Network Design
 - ◆ Prediction and Optimization Tool Training

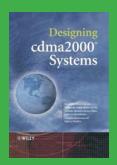
Mentoring

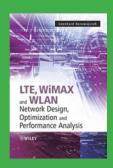
- ◆ On the job team training
- ◆ Team formation

High Level Consulting

- ◆ CEO and CTO support
- ◆ Operations audit
- ◆ Board advisory

Published Books







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