

LTE Module

AN ADD-ON MODULE TO SIGNALPRO® FOR THE DESIGN, DEPLOYMENT AND OPTIMIZATION OF LTE NETWORKS

The LTE Design Module contains specialized area studies, along with powerful automatic channel and PCI assignment tools, forming a comprehensive engineering tool for the design of high-performance LTE networks.

Traffic Loading

Traffic is automatically weighted and distributed based on a number of service definitions and market criteria.

LTE PCI (Cell ID and Cell Group ID) Planning

User-programmable naming conventions provide either automatic or manual assignment.

Neighbor List

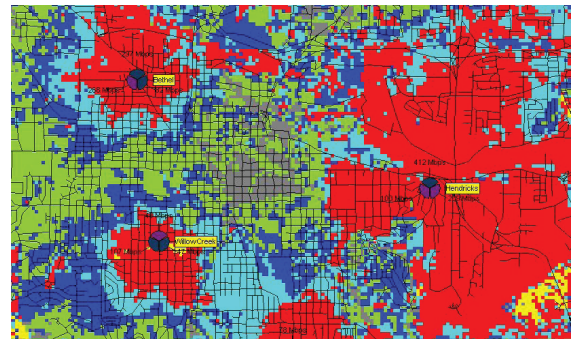
Calculations based on received power or best channel for most likely servers (interference sensitive).

Automatic Frequency Planning

Assigns high-traffic demand sectors based on calculated or measured traffic data.

LTE Capacity Analysis

Robust uplink and downlink analysis for multiple service levels and scheduling techniques that consider many user and system characteristics.



LTE Fixed Multipoint Design

Comprehensive feature set for the planning and visualization of LTE fixed Broadband Wireless Access and integrated backhaul networks.

Specialized Area-Wide Studies

- LTE RSRP and RSRQ
- Uplink (SC-FDMA) & Downlink (OFDMA) Adaptive Modulation Data Rate
- Uplink and downlink LTE Modulation and CQI Regions
- LTE uplink $C/(I+N)$ using Stochastic and Monte Carlo simulations
- UE power when using power control
- Fractional frequency reuse (FFR) R1/R3 zones
- Inter-eNodeB and Inter-RAT handoff regions
- Number of ICIC suppressed interferers