

# 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

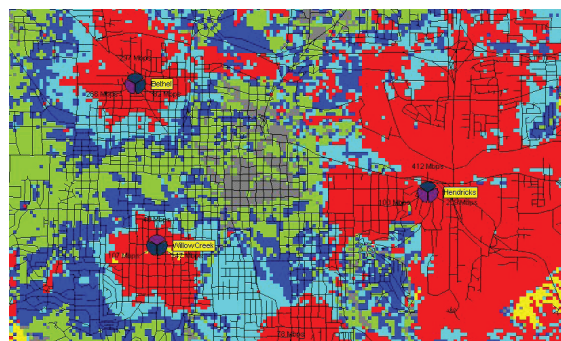
Calculations based on received power or best channel for most likely servers (interference sensitive).

## 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