EDX WIRELESS

Next Generation Wireless Design

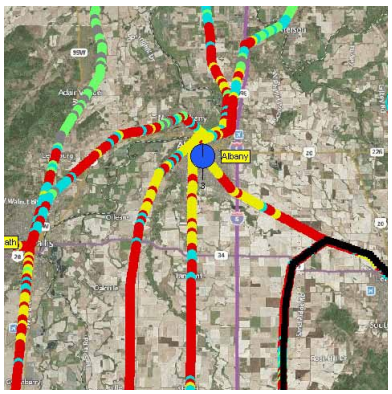
Transportation

EDX PROVIDES SOLUTIONS TAILORED TO MEET THE NEEDS OF WIRELESS NETWORK DEPLOYMENTS IN TRANSPORTATION ENVIRONMENTS

EDX SignalPro® is a comprehensive wireless network design package. With support for systems from 30Mhz up to 100GHz across all types of networks including Mobile & Cellular, LTE, WiFi, LMR, Mesh and more, SignalPro is ideal for the planning and deployment of wireless networks in the transportation industry.

Among its many capabilities, SignalPro offers a route based approach to network planning in which system performance can be analyzed along any transportation corridor or rail line. This feature set analyzes coverage to points along a 2D or 3D route – achieving a precise level of network planning resolution that would not be found in a uniform coverage study over a service area. In addition, SignalPro with the Mobile & Cellular Module contains a feature set to address the unique challenges in designing a Positive Train Control (PTC) system, with advanced network planning features and automated processes ensuring a properly deployed and dimensioned system. SignalPro also offers point-to-point, point-to-multipoint, area and in-building studies.

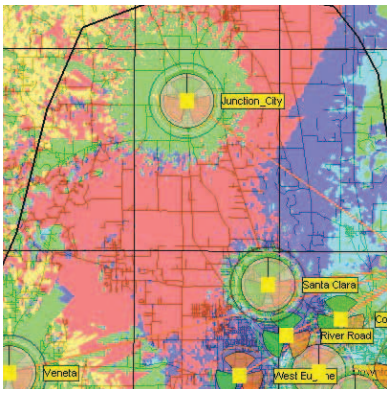
The capabilities of SignalPro can be further expanded through a variety of advanced network planning and technology specific modules, making it an all-in-one network design solution.



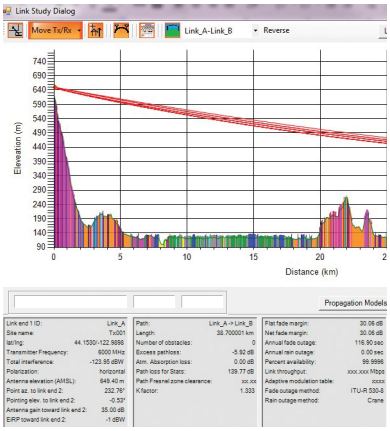
Route study

EDX Solutions

COMPREHENSIVE, FULLY FEATURED SOFTWARE FOR THE DESIGN, DEPLOYMENT AND OPTIMIZATION OF WIRELESS NETWORKS



Coverage study



Complete path profiles

SignalPro

- Scalable and customizable for networks of any size and set of requirements
- Intuitive functionality allows engineers to query study results, analyze demographics and compare measurement data with predicted results
- Robust 3D modeling of service areas for unique and thorough network design experience
- Seamless visualization of service areas, network assets and simulated performance
- Direct compatibility with 3rd party applications allow study results to be easily exported and shared

Route Studies

The route study capability in SignalPro analyzes system performance over a rail line, roadway or even a flight plan. Route studies may be used to predict any number of performance factors along a 2D or 3D route including received signal power, signal-to-interference ratios, simulcast delay spread and much more. These analyses data can be displayed graphically or exported to a third party application.

Model buildings, bridges, tunnels and more

Use existing building data, floorplans, image files, or draw these structures in SignalPro or third-party applications to include environmental factors and service area obstructions in your calculations. Underground tunnels may also be modeled within SignalPro, with these capabilities expanded by adding the DAS Design Module or X3D Ray Tracing Module.

Mobile & Cellular Module

An add on module to SignalPro providing features to plan PTC, Mobile/Cellular and multipoint backhaul networks.

Traffic Loading

Calculate traffic loading on individual sectors based on real service areas and a selection of multiple service types.

Automatic System Layout

Automatically lay out cell sites within a service area using criteria such as fixed hexagon grids with adjustable cell service radius.

Point-to-Multipoint

Simultaneous uplink/downlink evaluation across multiple technologies in a point-to-multipoint network architecture.

PTC

Expanding on the route studies in SignalPro, advanced network planning features and automated processes in the Mobile & Cellular Module ensure PTC networks are designed to meet performance and safety standards.

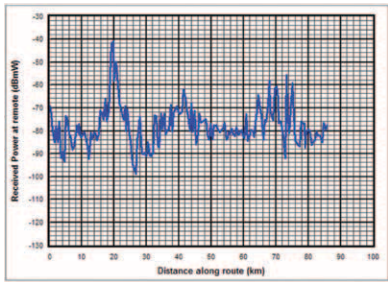
- Automatic Frequency Planning
- Neighbor list prediction
- Specialized area studies

Expandable

EDX Wireless offers a number of specialized and advanced network planning modules to address the needs of the transportation industry as wireless networks continue to evolve.

- DAS Design Module
- X3D Ray Tracing Module
- LTE Module
- WiMAX Module
- Mesh Network Module

Powerful visualization



Route study graphical plot

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