

Smart Planning for Smart Networks

EDX's advanced Smart Grid RF design tool allows companies to efficiently plan, deploy and optimize Smart Grid wireless networks for urban, suburban and rural environments at every point in the system lifecycle. EDX SignalPro® with SignalMX® Module provides automated capabilities for Smart Meter import/layout, Router selection, and AMI traffic balancing.

Intelligent

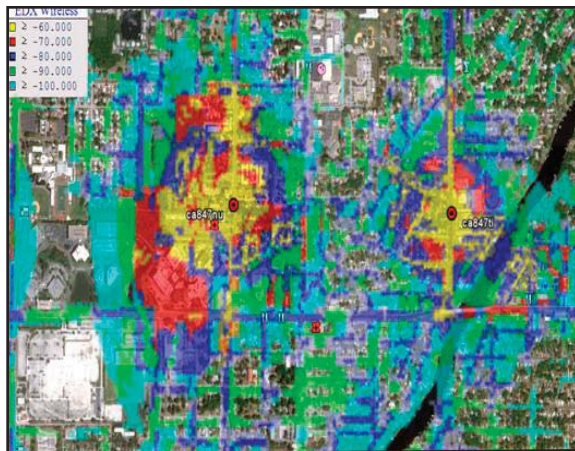
- Establish efficient network design processes
- Optimize infrastructure and network resources
- Design converged multi-technology/multi-vendor systems
- Decrease network optimization iterations
- Reduce Truck Rolls

Flexible

- Supports all Smart Grid wireless technologies including: AMI Mesh, WiMax, LTE, 2G-4G, WiFi, Point-to-Multipoint, BWA, Microwave, Star, BPL, Indoor and Proprietary Solutions
- Open architecture allows for external control, automation, and integration into existing GIS platform or master application

Scalable

- Industry-leading algorithms for fast modeling of large scale AMI and Smart Grid systems
- Provides RF meshing calculation of very large AMI systems and reporting of meter performance and critical branch points
- Import/Export large numbers of equipment assets



Smart Grid Router Coverage

Automated Features

Smart Meter Import/Layout

- Flexible interface for defining Smart Meter radio configurations and location type definition
- CSV based import of Smart Meter Locations that can be synced to utility database structures
- Pre-Sales layout of Smart Meters for initial bidding processes

AMI Router Layout and Selection

- Initial layout of AMI routers using Utility mounting asset information
- Pre-sales layout of AMI routers using GIS street databases
- Streamline AMI router placement and selection by using the RF-optimized selection feature
- Selects the minimum number of routers to cover Smart Meters based on receive sensitivity, maximum number of hops, and maximum router distance

Repeater Creation and Selection

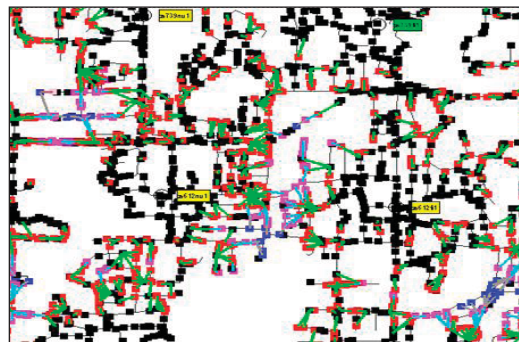
- Quickly create repeater candidates throughout service area
- Repeaters are selected based on capacity-constrained mesh analysis with the most useful ones chosen
- Interactively manipulate repeater selections to find most cost-effective solutions

Backhaul Capacity Layer

- Identifies and assigns AMI routers as backhaul locations for a Multipoint backhaul network

Smart Grid Analysis

- Mesh calculation of large AMI networks which generates detailed reports of system performance, traffic, mesh vulnerabilities and critical mesh points

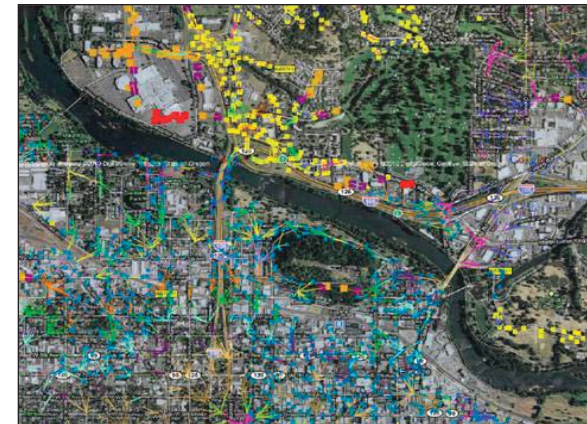


Smart Grid AMI Mesh Network Analysis

- Capacity-Constrained Mesh Analysis allows AMI mesh networks of varying capacity rules for collectors and number of device connections to be considered. This capability allows the definition of collector capacity, repeater downstream devices, repeater chaining, and meter downstream devices allowing flexibility to model different vendor's equipment effectively.
- Coverage, Point to Point, and Point-to-Multipoint studies are comprehensive for modeling all relevant wireless technologies used in Smart Grid networks
- Specialized studies for 2G-4G, WiMax, LTE and Point-Multipoint including capacity studies, Monte Carlo analysis, and automated frequency planning are available in the Network Design Module

Visualization

- Visualize System-Wide down to Smart Meter
- Flexible display options for Smart Meters, Routers and Links between network assets
- Quickly locate critical problem areas
- Smart Meters, Links and Coverage can be exported to industry standard GIS tools such as MapInfo® and GoogleEarth®
- Creation of professional layouts and coverage/performance diagrams



Smart meters and links exports displayed on GoogleEarth®

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