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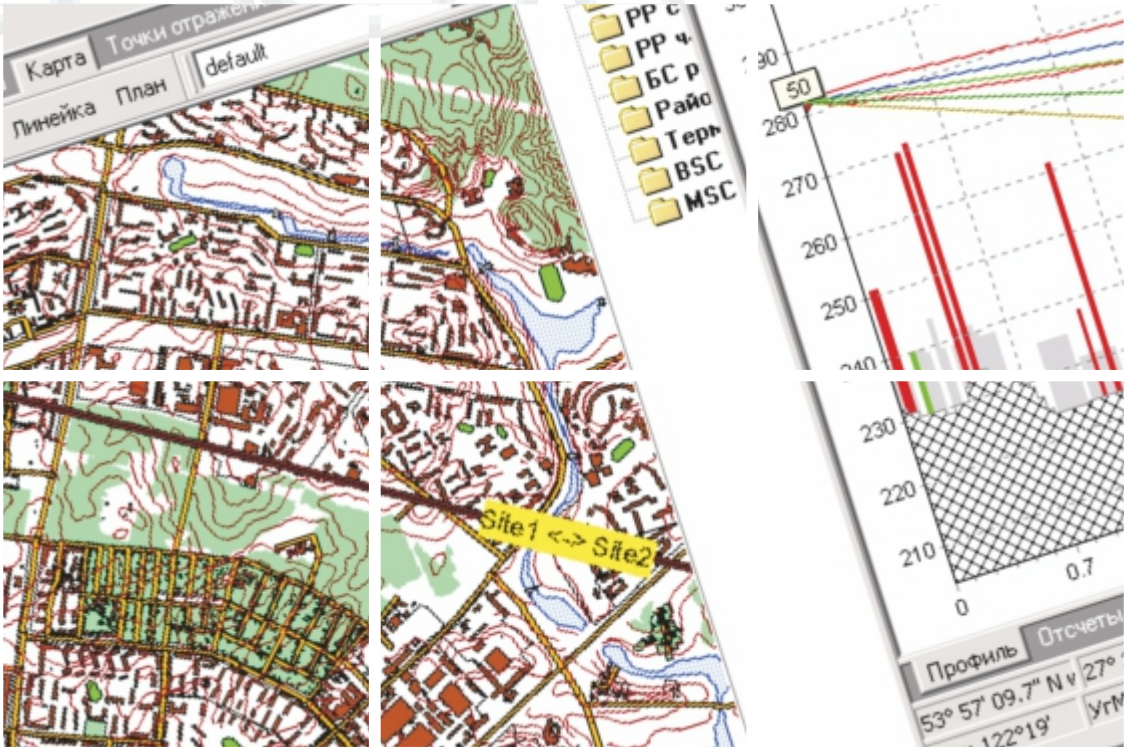
ONEPLAN RADIO PLANNING SYSTEM

ONEPLAN

RPLS-DB Link

MICROWAVE COMMUNICATION PLANNING & OPTIMIZATION



ONEPLAN RPLS-DB Link is multiuser point-to-point and point-to-multipoint microwave network planning and optimization software that can be used as part of the full-featured suite ONEPLAN RPLS-DB for radio and transport interfaces planning, creation of technically and economically reasonable plans for wireless access network deployment and development.

Basic tasks

- Single and multi-hop MW link performance analysis in the frequency range from 100 MHz to 350 GHz
- Microwave link technical and physical parameters optimization
- Manual and automatic frequency planning
- Interference analysis and EMC estimation
- Line-of-sight and inter-visibility analysis
- PMP access system planning
- Report generation

InfoTel Company

Russia's leading developer of wireless network planning software and complete solutions provider

Main customers

MTS · MEGAFON · Beeline · TELE2 · GAZPROM · ROSNEFT

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ECONOMICAL SOLUTION FOR WIRELESS OPERATORS AND DESIGN ORGANIZATIONS

Since 2001 InfoTel's software allows customers to decrease technical and financial risks during mobile and fixed radio communication networks construction, operation and development.

InfoTel offers the optimal solution by effectiveness/cost criterion due to ONEPLAN RPLS functionality, usability and reliability.

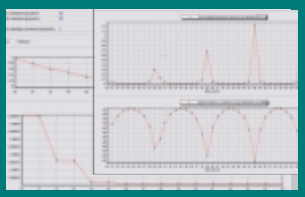
MAIN FEATURES

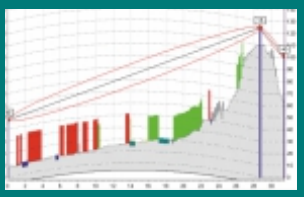
- Equipment and templates built-in libraries
- Automated input of initial data (path profile, radio climatic parameters, equipment type, operation mode)
- Support for space and frequency diversity, adaptive modulation, repeaters, E-band links
- Performance objectives based on ITU-T G.821, G.826, G.828 or user-defined
- Performance analysis (unavailability, SESR, link budget, clearance etc.) based on ITU-R P.530
- Performance analysis during precipitation based on ITU-R P.837, 838
- Reflection point analysis
- Antenna height, space and frequency diversity automatic optimization
- Optimization via analysis of dependency on any parameters (curves plotting)
- Multi-hop microwave link performance calculation
- Microwave network frequency planning and EMC estimation (ITU-R P.452)
- PMP network coverage prediction
- Export link and LOS map to Google Earth
- Standard formats report generation
- Report templates editor with advanced features


Single MW link calculation


Multi-hop MW link calculation


Heights and diversity auto-optimization

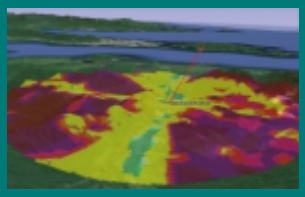

Plotting of parameters curves


Passive repeater modelling


Export to Google Earth


MW network EMC estimation


Coverage and PMP links calculation


LOS analysis

GIS and DB FEATURES

- Support of vector, raster, online maps; DTM and clutters (type and height)
- SRTM data use for path profile creating
- Converter from vector map, SRTM, ASTER, ASC, GRD/GRC, GEO/SOL/BLG, BIL, BIN to internal format DEM
- Manually creating and editing path profile
- DB access rights management (user groups/regions/projects/library)
- User-defined parameters adding
- Object changes history
- Interaction with corporate data bases and other planning systems

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