

DATA SHEET

Vertical Mapper™ v3.5

Spatial Display and Analysis in Communications

GAIN DEEPER LOCATION INSIGHT USING GRID-BASED ANALYTICS



Benefits

- Create continuous surfaces from point data
- Create density maps from themes containing point features
- Create contour, slope, and aspect maps and relief shading of these surfaces
- Create raster buffers based on distance from vector data
- Perform queries and calculations on multiple grids simultaneously
- Perform single or multi-site modelling and analysis
- Perform grid classification, display and more

OVERVIEW

With enormous infrastructure costs for deploying telecommunications systems, making the right site location decisions is critical for communication carriers like you. That's why you need the Vertical Mapper™ spatial information system for advanced 3D and grid-based analytics. It works in combination with the MapInfo Professional® solution, using such criteria as surface elevation, land use and clutter, and current and projected system usage demands, to help determine the optimum locations for transmission towers.

Use Vertical Mapper for planning capacity and optimising network performance by:

- Comparing coverage maps to forecast and model network capacity, such as RF channel, frequency use and bandwidth utilisation
- Regularly monitoring capacity and performance, and developing upgrade strategies
- Understanding available calling plan options to locate target markets and perform competitive analysis

Introducing Vertical Mapper v3.5

Enjoy new access from our more-familiar MapBasic® programming language to automate repeatable tasks and processes. Some 66 sample-applications provide a fast, easy start to leverage Vertical Mapper functionality in your everyday work.

With support for our latest native file format (.tab) enhancements, users will appreciate the expanded capabilities of the new Vertical Mapper file access library, including:

- Access to very large geographic objects with tens of millions of nodes
- Time and Date field type support
- Access to all MapInfo Professional® supported datums and projections

Additional New Features

- Convenient software development kit (SDK) to add custom functionality or automate repeatable tasks
- Exclusive, never-before-released builds with numerous new functions and enhancements from a combination of public and private sources
- Windows® Vista operating system support
- Simplified installation and deployment options

More Accurate Display for Better Business Decisions

Our Vertical Mapper solution allows for spatial analysis in a grid format or for converting grid data to region data through contouring. You can easily view constantly changing data variables in relation to location by thematically mapping the data with color or relief shading, or by layering and comparing the data mathematically with other grid themes to determine unique or hidden relationships.

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Communication carriers use the Vertical Mapper solution to work with or manipulate grid data produced by such RF propagation solutions as Planet® EV to fulfill a host of needs across the enterprise.

Network planners can...

Perform a wide array of operations on grid data such as grid smoothing, contouring and grid queries to turn grid data to actionable information.

Marketers can...

Contour the grid data and overlay geographic boundaries such as ZIP Code™ boundaries and calculate the total covered population that has coverage.

Combine the above information with demographic data, such as household income, and create product and marketing messages that best meet the target population demographic profile.

Customer service can...

Use the contoured coverage data that can be generated to answer such customer questions as: *If I live on 25rd Main Street and work at 55th Street, will I have continuous coverage?*

Built for Advanced Mapping and Everyday Analysis

The Vertical Mapper solution features a full suite of interpolators based on all standard estimation principles that let you build continuous surfaces, or grids, from existing point files or unmapped tables, regardless of data type.

Easy-to-use wizards help novice users achieve meaningful answers, while experienced mappers can adjust advanced settings to obtain more sophisticated results.

Major Features and Benefits

Our Vertical Mapper solution offers these key capabilities:

- Wide range of analysis tools help reveal trends in data (via interpolations, 3D views, contours, cross-sections and more)
- Profiling and Huff model prediction capabilities identify areas with similar attributes
- Wide array of tools to build grids from existing data
- Several gridding algorithms are now included: triangulated irregular network (TIN) with smoothing, inverse weighted distance function, natural neighbour, rectangular (bilinear) interpolation, kriging, custom point estimation (point estimation allows for the calculation points within a radius, including sum, minimum, maximum, average and more), point-to-point and view shed analysis
- Colour settings and dynamic 3D rendering bring data to life

Our system uses the following point density or hot-spot creation methods:

- Square area—points totalled for each square of a grid cell
- Smoothing—density expressed as a normalised value between zero and one

Vertical Mapper also supports the creation and manipulation of classified grids (GRC data), including the modification and merging of class structures.

Operating System Support

- Win 2000 SP4
- Win XP Professional SP2
- Win XP Home SP2
- Windows® XP (64-bit)
- Windows® Vista (Ultimate)

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