

BRINGING
IT TOGETHER.

GeoMedia Transportation Manager

Create and maintain a linear referencing system

The transportation industry's job is to keep transportation routes open so people and products can move without delay. By its very nature, the industry requires quick turnaround for repairs, remediation, and new construction. With an efficient management system in place, a supervising agency can keep up with the assets, events, and activities of an extensive transportation system. They can place repair and construction teams in the right place at the right time, get travelers and products to their destinations safely and on schedule, and determine where agency funds should be spent.

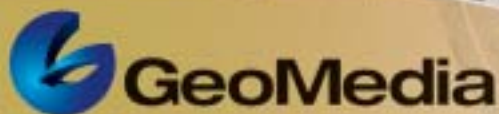
Get the facts.

With GeoMedia® Transportation Manager, professionals in departments of transportation (DOTs), rail agencies, pipeline operations, and other organizations that support transportation activities can efficiently build and maintain linear referencing systems (LRS). These systems define features and locations by their linear distance from known points on a linear network. GeoMedia Transportation Manager also provides dynamic segmentation – a powerful tool for analyzing tabular data referenced to linear features on a map.

GeoMedia Transportation Manager functionality includes LRS Validation, which performs an in-depth review of a transportation network to find errors and unusable information. Results are queued up for review and are automatically deleted once they are corrected. LRS Calibration automates the population of measure and route name attribution – a capability that is critical to the operation of an LRS. LRS correction tools handle difficult problems such as incorrectly ordered segments in a geometry collection.

Analyze data – quickly and easily.

GeoMedia Transportation Manager includes the analysis capabilities of GeoMedia Transportation Analyst. Practical applications of this capability can lead to immediate



improvements in the transportation network. Rail transportation providers, for example, can highlight track segments that need priority maintenance. Or a county road division might use GeoMedia's dynamic pipe technology to see the combined results of two or more sets of data – often maintained by different divisions. In this way, they can determine whether a section of highway has a high accident count, what condition the pavement is in, and whether any pavement repair projects are scheduled for the near future.

Integrate data without translation.

Transportation network and asset data can come from a variety of sources, in a variety of formats. GeoMedia technology enables you to bring data from disparate databases into a single GIS environment for viewing, analysis, and presentation. No translation of data is required. GeoMedia's data server technology supports open standards, providing direct access to business and project data from virtually any geographic data objects (GDO)-compliant data server within your enterprise. These include Oracle®, Microsoft® Access, Microsoft SQL Server, MGE, MGSM, IBM® DB2®, ArcInfo, ArcRoute, and ArcView.

Bridge the gap between technology and productivity.

Providing a comprehensive set of services for the open computing environment, Intergraph Mapping and GIS Solutions helps you get the most from your investment. Intergraph's experienced staff and consultants deliver professional services that include system integration, consulting, project services, and implementation.

About 90 percent of the capabilities of GeoMedia Transportation Manager are generic to all organizations in the transportation industry. The remaining 10 percent varies among organizations and may require a specific workflow for each organization. A documented public API to software capabilities is provided to facilitate open customization with industry-standard tools such as Microsoft Visual Basic®.

GeoMedia: Open from the start

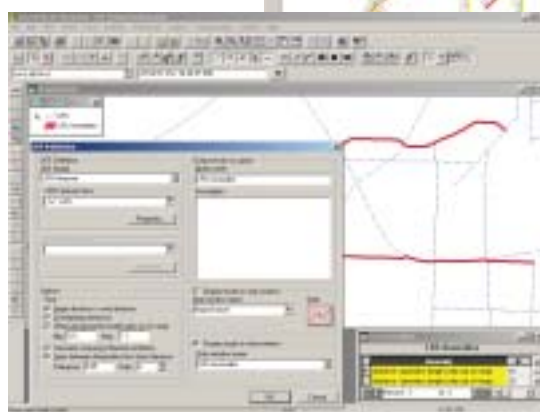
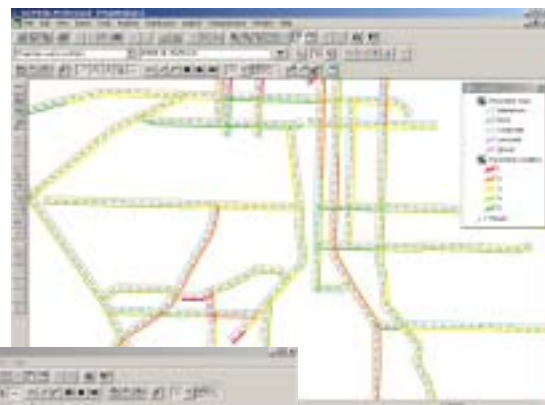
As a founding and principal member of the Open GIS Consortium (OGC), Intergraph is a visible force in ongoing OGC initiatives for industry standards, and spearheads interoperability in the GIS and IT marketplace. Intergraph Mapping and GIS Solutions is committed to open systems solutions and data interoperability.



BRINGING IT TOGETHER. Intergraph Mapping and GIS Solutions – an industry pioneer – has been a world-wide leader in the mapping, GIS, and cartographic marketplace for more than 30 years. “Bringing It Together” conveys our commitment to bringing together the right elements – products and services, open technology and data integration, partners and people – to help customers implement successful solutions. Our industry solutions support government agencies and commercial enterprises worldwide, including local, state, federal, and national governments; transportation agencies; mapping agencies; the military; civil aviation authorities; and educational institutions.

Intergraph Mapping and GIS Solutions brings together a full suite of solutions for transportation organizations. GeoMedia Transportation Analyst provides analysis capabilities using the LRS data model. GeoMedia Transportation Manager enables the development, maintenance, and analysis of a transportation LRS data model. And by adding Web applications built with GeoMedia WebMap Professional, users can perform LRS analysis on the Web.

GeoMedia Transportation Manager enables you to offset the display on either side of the centerline. In this example, the pavement condition is shown on one side and the pavement type is shown on the other.



With LRS validation capability, GeoMedia Transportation Manager locates problems and queues them up in a data window. As problems are corrected, they are automatically deleted from the data and map windows.



For more information, visit our Web site at www.intergraph.com/gis.

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