



Exor Network Manager

Dynamic Network Infrastructure Management

Exor Network Manager is used by transportation organizations to model, manage, and maintain their linear network infrastructure. With a proven track record within the highways industry, Exor Network Manager allows users to view network and asset data using multiple linear referencing methods within a single spatial and temporal enabled database, providing a robust network database model to underpin and integrate network-based applications.



Users Can Create and Categorize Network Elements.

Provides Connectivity Through Shared Assets

Designed to support multi-modal applications, Exor Network Manager has the ability to maintain multiple networks and network types, such as distinct road classes, rail lines, drainage, pipelines, and utility networks in a single integrated database. Connectivity between network types can be provided either by shared nodes or through the concept of shared assets, such as an asset located on more than one network, where there is no physical connection between networks.

Exor Network Manager supports subclasses and groups to categorize network elements. For example, a user may wish to differentiate between network elements on a road network to denote the highway type, such as whether a highway is single, dual, divided, or multidirectional.

Share Across Entire Organization

Exor Network Manager allows users to create a topologically consistent hierarchical network model. This can support the use of different linear referencing methods (LRMs) on many network types that can be shared by the entire organization running a variety of software applications. Exor Network Manager supports unlimited

Exor Network Manager supports various ways in which LRMs may be constructed. They can be broadly defined as:

- Route and kilometer/mile point (for example, Route 12 km/mile Point 9.29)
- Route kilometer post (for example, Route 12 km/mile Point 9.29 with points of equation)
- Route and reference post (for example, Route 12, Ref Post 15 + 0.29 miles)
- Link – Node (this is a special application of the reference point method)

Users can translate from one reference system to the next using pull-down menus. Inspection crews can use the most efficient referencing method when performing condition assessments, such as offsets from the nearest bridge, then translate the data into a linear referencing method best suited for reporting purposes.

Maintains Complete Historical Record

The date-stamping approach used within Exor Network Manager allows users to view the network and related assets based on any historic date. A complete historical record of the network and assets is maintained in the database, facilitating time-related studies, and the input of field data months after it is collected.

Reduces Software Costs

Exor Network Manager is designed to integrate with popular geospatial information system (GIS) software for the direct spatial query and map display of assets, activities and/or events associated with the network through the LRMs. The Exor Network Manager database supports dynamic segmentation, which determines location on linear features from tables of features containing measurements.



With Exor Network Manager users can edit network elements spatially.

...view network and asset data using multiple linear referencing methods within a single spatial and temporal enabled database...

user-definable network types and associated LRMs that conform to the BS7666 standard and the NSG in the United Kingdom and the NCHRP 20-27 model in the United States.



Users can also edit the spatial geometry of a network element.

Application Server Specification

As recommended by Oracle for 10g Application Server

Processor

3.0 GHz Intel Pentium Processor

Operating System

Windows Server 2000, 2003, 2008R2, Unix

Memory

Min 4 GB based on (75 active users)

Database Server Specification

As recommended by Oracle for 10g Database Server

Processor

3.0 GHz Intel / UltraSPARC

Operating System

Solaris 8 / 9 / 10, Windows Server 2000, 2003, 2008R2

Memory

4 GB of RAM + (Swap space double the size of RAM)

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Exor Network Manager At-A-Glance

Network Management

- A fully flexible network data model
- Dynamic data validation
- Multiple networks
- Multiple linear referencing methods (LRMs)
- Full network editing functionality
- A network hierarchy
- A full network history

Network Modeling

- View multiple network node types
- Sub-classify network types
- View flexible network attribution by network type
- Assign elements to network groups automatically
- Convert units dynamically
- Create temporary network extents or regions of interest

Network Grouping Hierarchy

- Categorize multi-level network groupings
- Classify
 - » linear network groupings, such as routes
 - » nonlinear groupings, such as administrative boundary areas
- Categorize partial linear network groupings
- View flexible attribution on network groupings

Multiple Linear Referencing Methods

- Underpin datum
- Manage network cardinality
- Handle points of equation (POEs)
- Manage distance breaks for discontinuous routes
- Reference
 - » routes and offset
 - » route mile posts
 - » route mile

Dynamic Validation

- Validate
 - » attribute value
 - » cross attribute value
 - » linear location

Network Editing

- Create new network elements
- Split network element
- Un-split network element
- Merge network element
- Unmerge network element
- Replace network element
- Undo replace network element
- Close network element
- Unclose network element
- Recalibrate network element
- Reclassify network element

Network History

- Retain full temporal
- Network history
- View network as at any point in the past