ArcGIS™ Schematics
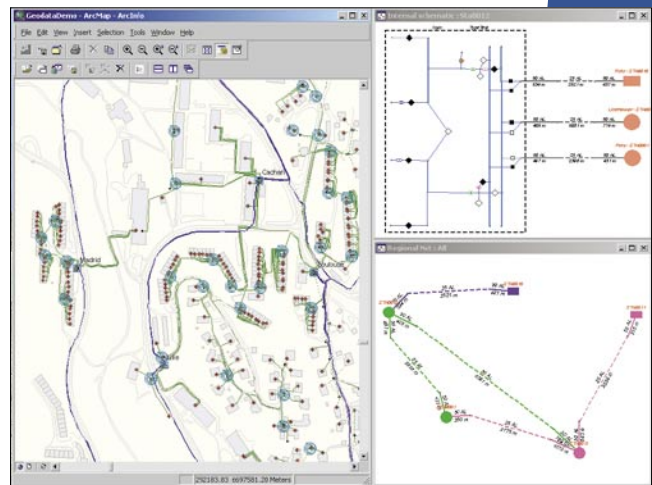
Automatic Schematic Generation for ArcGIS

ArcGIS™ Schematics is an effective and innovative solution to automate schematic and geoschematic graphical representations of ESRI® ArcGIS geodatabases. Regardless of the network (electrical, gas, telecommunications —virtually any linear network), ArcGIS Schematics constitutes a powerful enhancement for better network management and visualization. ArcGIS Schematics creates on-demand network graphs and schematic views of any linear data in your GIS.

ArcGIS Schematics application fields

- Network Facilities Management
- Network Design
- Network Planning (modeling, simulation, comparative analysis)
- Network Operation, Maintenance, and Supervision
- Commercial and Marketing Analysis

ArcGIS Schematics is generic. By allowing you to separate the conceptual model from representation models, ArcGIS Schematics adapts to the requirements of existing applications. ArcGIS Schematics is open. It can manage any type of network—it imposes no constraints on the information system architecture. ArcGIS Schematics can connect with multiple databases, local or distributed, giving network designers complete freedom to meet the underlying IT needs of an organization.

High-Level Graphic Features

ArcGIS Schematics manages all types of graphic representation: geographic, geoschematic, and schematic (diagrams, trees, matrixes, etc.). It contains many automatic network presentation algorithms. Display optimization mechanisms include offsetting of overlaid objects, automatic routing, varied zooming, view cloning and duplication, automatic resizing of views, and more.

Graphic Manipulation and Network Formatting

ArcGIS Schematics contains many functions and features to manipulate network objects: horizontal or vertical alignment of nodes, modification of symbol and text sizes, intelligent subnetwork movement, and subnetwork contraction and expansion.
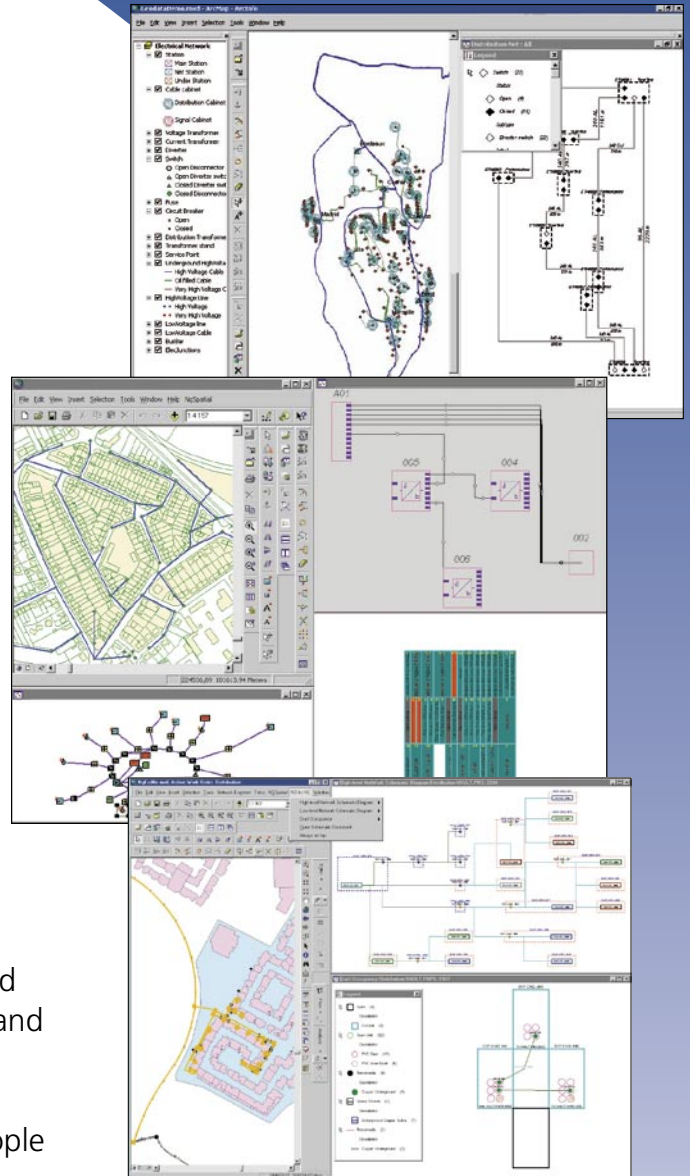
Cartographic Tools Integration

Feature consistency with GIS—OLE automation technology allows creation and manipulation of networks within cartographic environments and uses all the capabilities provided by these tools.

ArcGIS Schematics automatically creates schematics of networks and manages consistency between cartographic and schematic views. You can retrieve documents produced with ArcGIS and save them as graphic files, then use them within ArcGIS Schematics to ensure an identical network view regardless of the environment.

ArcGIS Schematics complements ArcGIS. Together, they give you great power to operate, manage, and view any network in a wide variety of geographic and schematic representations.

For more than 30 years, ESRI has been helping people manage and analyze geographic information. ESRI offers a framework for implementing GIS in any organization with a seamless link from personal GIS on the desktop to enterprisewide GIS client/server and data management systems. ESRI GIS solutions are flexible and can be customized to meet the needs of our users. ESRI is a full-service GIS company, ready to help you begin, grow, and build success with GIS.

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