

# ArcGIS® Data Interoperability

## Data Integration Tools for ArcGIS

The screenshot displays the ArcGIS Desktop interface with several windows open:

- Attributes of City Parks (Shapefile TAB):** A table showing attributes for city parks. The columns are OBJECTID, SHAPE, name, and FID. The rows are:

OBJECTID	SHAPE	name	FID
1	Polygon	Fair Termination	0
2	Polygon	Big White Creek	1
3	Polygon	White Willow	2
4	Polygon	T.A. Brown	3
5	Polygon	Edgewater	4
6	Polygon	Patton Sprague	5
7	Polygon	Dexter Jordan	6
8	Polygon	Andrew	7

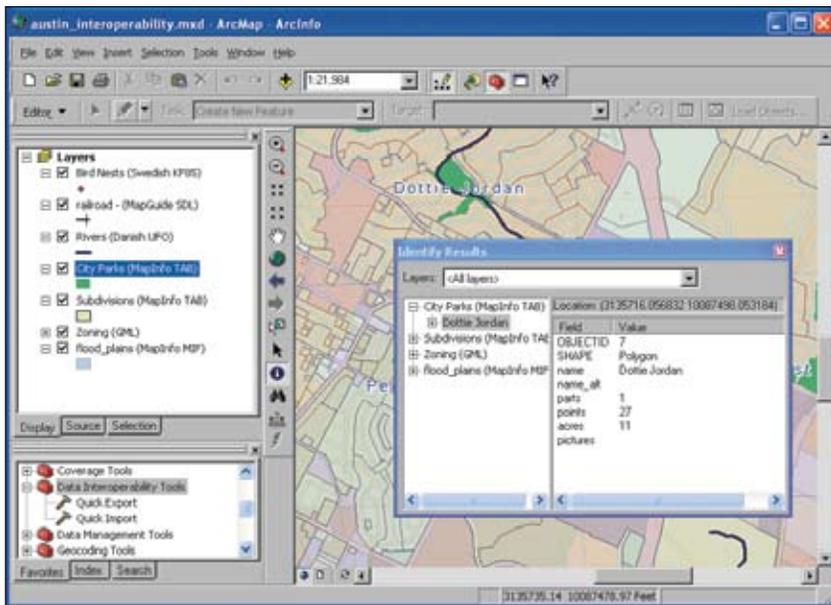
- Formats Gallery:** A window showing a list of data formats with columns for Name, Short Name, Read, Write, and Extension.

Name	Short Name	Read	Write	Extension
Genemap	GENAMAP	Yes	Yes	.sh
GEODESYS StruMap	STRUMAP	Yes	Yes	.sgf
GeoGraphix CDF (WhiteStar)	WHITESTAR	Yes	Yes	.cdf
GeoMedia Access Warehouse	FM0	Yes	Yes	.mdb
GeoMedia SQL Server Warehouse	FM0_SQL	Yes	Yes	
GEOnet Names Server	GEONET	Yes	Yes	.nt
GML Version 2.x	GML2	Yes	Yes	.gml.xml, gml.xml
GPX	GPX	Yes	Yes	.gpx, .xml
IDRISI Vector Format	IDRISI	Yes	Yes	.vct
Intergraph MGE	MGE	Yes	Yes	.dgn, .ced, .dgn, .ced
Landonline (Land Information New Zealand Cadastre)	LANDONLINE	Yes	Yes	.xml
Laser Scan IFF Internal Feature Format (IFF)	IFF	Yes	Yes	.iff
MapGuide SDL	SDL	Yes	Yes	.sdl
MapInfo MIF/MMD	MIF	Yes	Yes	.mif
MapInfo TAB	MAPINFO	Yes	Yes	.tab
				.dxf
				.mdb
				.dgn, .k1, .pos

- Workbench:** A workflow diagram showing the process of reading data from a file and writing it to a database. The workflow includes steps like 'Read File', 'Process', 'Write to Database', and 'Close File'.

# ArcGIS® Data Interoperability

Data Integration Tools for ArcGIS



*ArcGIS® Data Interoperability eliminates barriers to data sharing by providing state-of-the-art direct data access, complex data transformation, and import/export capabilities. Jointly developed by ESRI and Safe Software—an ESRI corporate alliance—this extension is built on Safe’s industry-standard Feature Manipulation Engine technology. ArcGIS Data Interoperability allows geographic information system (GIS) professionals to use any standard GIS data within the ArcGIS Desktop environment, regardless of the format. This means that users can directly read, display, and analyze this data using all the tools available within ArcGIS Desktop.*

Directly use data in many formats within the ArcGIS Desktop environment.

## ArcGIS Data Interoperability Features

- Direct Read—Directly read more than 75 spatial data formats and export to more than 50 spatial data formats.
- Data Translation—Perform automated conversion between source and destination formats.
- Data Transformation—Further manipulate and translate default formats to create custom formats using the Workbench application.
- Full Integration with the Geoprocessing Framework—Enjoy full integration with the ArcGIS geoprocessing environment including the ModelBuilder™ framework.



Work with more than 75 data formats.

## Extensive Data Support

ArcGIS Data Interoperability adds support for more than 75 formats including Geography Markup Language (GML), XML, WFS, Autodesk®, DWG/DXF, MicroStation® Design, MapInfo® MID/MIF and TAB, Oracle® and Oracle Spatial, and Intergraph® GeoMedia™ Warehouse. With the direct-read capabilities, users can access these formats as read only.

ArcGIS Data Interoperability allows users to access and overlay these data formats as they would any other ESRI® format, such as a personal geodatabase or shapefile; browse the data in ArcCatalog™ to view the geometry, attributes, and metadata; add the data to ArcMap™ (or other ArcGIS applications such as ArcGIS 3D Analyst™ ArcGlobe™); overlay these layers with the user’s other data for display and analysis; and use all map and data tools such as Pan, Zoom, Identify, and Labeling.

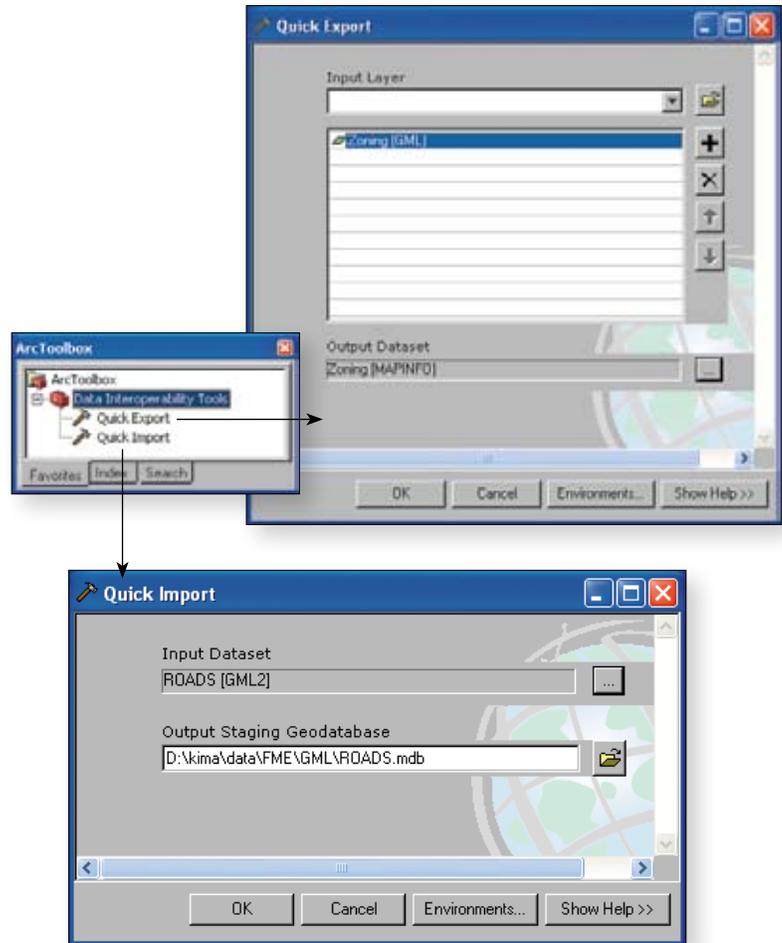
## Data Translation

The ArcGIS Data Interoperability extension allows users to directly read, display, and analyze data, utilizing all the available tools in ArcGIS Desktop. ArcGIS Data Interoperability provides a new toolbox with Quick Import and Quick Export tools that allow ArcGIS users to quickly translate between data formats with default format settings.

## Data Transformation

ArcGIS Data Interoperability provides a graphic data flow environment, called Workbench, for further translation and schema redefinitions. Fully integrated into ArcGIS Desktop products, Workbench is a semantic translation engine that allows users to build custom formats or create custom import or export tools. Workbench provides a rich set of more than 150 specialized transformers that can be used to transform both geographic and attribute information and lets users visually manipulate data translations.

With ArcGIS Data Interoperability, users can build features, join attributes, rename fields, split data into multiple layers, and perform many more transformations without having to write code and still be able to use the custom data format repeatedly in ArcGIS Desktop just like any other data source.



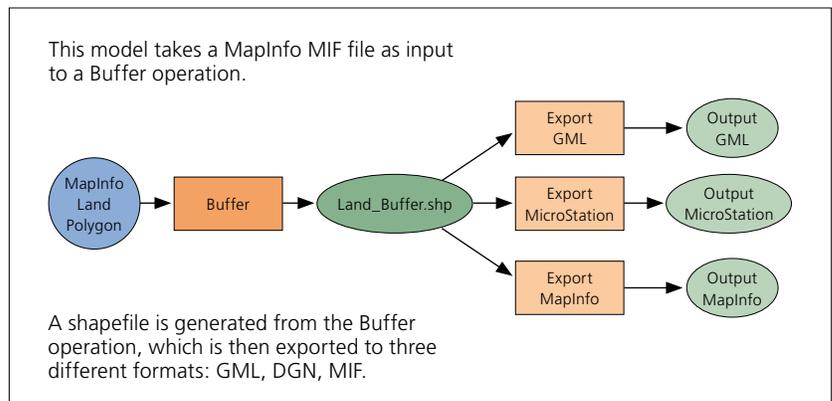
Use the Data Translation tools to easily convert data between formats.

## Full Integration with the Geoprocessing Framework

Formats supported by ArcGIS Data Interoperability can be fully integrated into the geoprocessing environment including the ModelBuilder framework. Data, including custom formats, can be used as input for the geoprocessing tools. With ModelBuilder, data formats can be manipulated within GIS models and incorporated into the user's workflow for geographic data processing and analysis. The ArcGIS Data Interoperability Import, Export, and Transformation tools can also be used within the ModelBuilder framework for importing many data formats into a spatial processing environment, then exporting the results to various formats.

## Requirements

ArcGIS Data Interoperability requires ArcView® 9, ArcEditor™ 9, or ArcInfo® 9.



Integrate the new data formats into the ArcGIS geoprocessing framework.

Evaluate ArcGIS Data Interoperability Today  
[www.esri.com/datainteroperability](http://www.esri.com/datainteroperability)



## ESRI

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## For More Information

**1-800-GIS-XPRT** (1-800-447-9778)

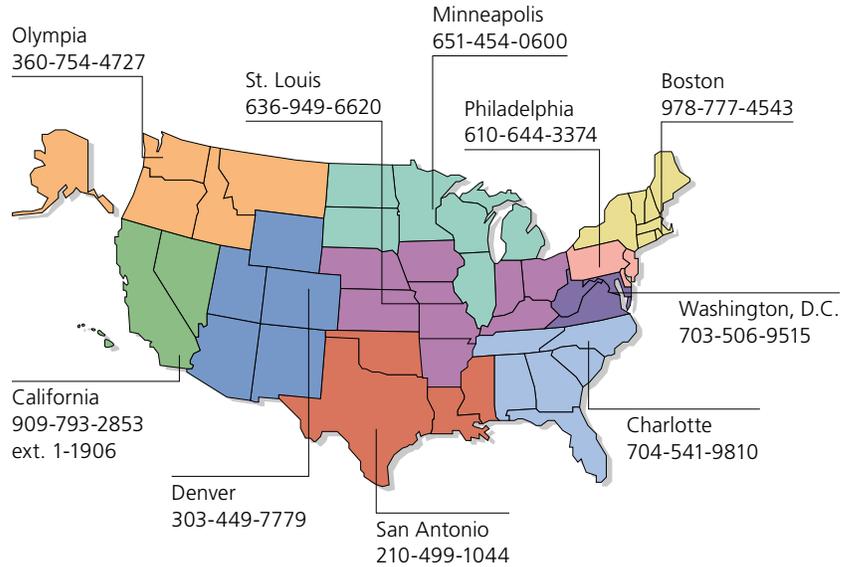
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