



LOCUS TRACK

RPF TOOLS

DIGITAL DATA TRACKER

RANGE TOOLS

MIMAPVIEW

COORDINATE VIEWER

ZOOM TOOLS

**GeoRover**<sup>®</sup>

## **GeoRover**<sup>®</sup> Software Products

Customer Focused GIS Tools That Deliver

**SAIC**<sup>®</sup>



Locus Track



RPF Tools



Digital Data Tracker



Range Tools



MIMapView

## GeoRover® Software Product Line

GeoRover geospatial software products are developed by Science Applications International Corporation (SAIC) and are designed and sold as extensions to the ArcMap™ component of Environmental Systems Research Institute (ESRI®) ArcGIS® Desktop software. GeoRover software products greatly reduce time required for ArcGIS training and common application processes, enable users to easily work with and visualize collected field data, and quickly create professional-looking products from spatial data.

### GeoRover software products include:

- Locus Track** Powerful tools for geospatial feature data creation, editing, and data exporting
- RPF Tools** High-speed indexing, display and management of large, file-based raster product format (RPF) data sets
- Digital Data Tracker** Flexible GPS software tools that easily work with field collected data, including data collected from geotagging devices, and can support real-time GPS navigation
- Range Tools** Geospatial feature data creation, editing, and ingestion of ring, ellipse, and arc features
- MIMapView** Tools used to track full motion video (FMV) feeds inside of the ArcMap application for situational awareness
- Coordinate Viewer\*** Custom coordinate window with real-time coordinate display
- Zoom Tools\*** Rapid map zooming and “go-to” capabilities

### Benefits

- Significant reduction in training requirements for the ArcGIS application
- Faster, more flexible interface for ESRI ArcGIS Desktop software
- Increased user confidence and greater acceptance of the powerful ArcGIS application
- Tightly integrated with the ArcMap application and fully compatible with geodatabase formats
- Improved support for ingestion of data into ESRI ArcGIS Desktop software
- Rapid export of GIS information into standard product formats
- Optimal management and display of large National Geospatial-Intelligence Agency (NGA) RPF file-based datasets
- Field data collection:
  - No proprietary hardware
  - Minimizes burden, no connections in field required
  - Works with equipment personnel already have and use

\*The Coordinate Viewer and Zoom Tools extensions are included with the purchase of any of the core products listed above.

## Locus Track

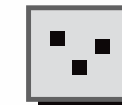
The GeoRover Locus Track extension streamlines and enhances the processes of creating, editing, importing, and sharing data through a combination of robust and flexible interactive editing tools and data import/export wizards. The tools present many of the most common and requested GIS functions in a simple, efficient interface, greatly reducing the steps required to accomplish ordinary tasks, saving valuable time and reducing required training. The results allow for a smooth transition between the processes of importing point, line, or polygon features, editing the features “on-the-fly” inside of the ArcMap application, and exporting the features to quickly disseminate pertinent information.



Database



Files



Spatial Data

### Features

- Interactive (point-and-click) and coordinate-based tools for creating, editing, and deleting point, line, and polygon features
- Tools can edit existing shapefiles and geodatabase feature classes (personal, file, and enterprise ArcSDE®), and can create new shapefiles “on-the-fly” within the ArcMap application

- Attribute editing tool allows for one-step database editing of any layer and the ability to add new attribute fields
- Supports DD, DM, DMS, UTM, MGRS, and XY coordinate formats. All tools employ robust, smart, and flexible coordinate parsing capabilities
- Wizard-driven import of point, line, or polygon features from coordinates in any delimited text (.csv, .txt, .tab, etc.),



Corner of 7th Street





## Digital Data Tracker

The GeoRover Digital Data Tracker extension consists of flexible GPS software tools that easily work with field data, data collected from geotagging, and can support real-time Global Positioning System (GPS) navigation. It provides tools for easily importing track logs, waypoint logs, and routes from a variety of GPS receivers, including receivers that support GPS exchange format (GPX) files or GPS-tagged data, into the ArcMap™ application. Using the GPS receiver track log information, digital media (images, video clips, audio clips, text) collected in the field, can automatically be georeferenced. The result is the option to upload specific waypoints or routes to a GPS receiver or to create an interactive map display with links to geotagged data that can be exported as a web page for easy information sharing.

### Features

- Downloads track logs, waypoints, and routes from GPS receivers into new or existing ArcMap layers
- Uploads waypoints or routes from the ArcMap application to a GPS receiver.
- Support for Garmin® GPS receivers (serial and USB), GPX files, GPS-tagged data, Magellan® (serial), and NMEA GPS protocols. Also, supports popular Garmin nüvi® series GPS receivers
- Automatically geolocates and plots digital media (images, video clips, audio recording, etc.) by correlating the data with the GPS track log information
- Creates and manages related offset (subject and collection) points by leveraging range and bearing information
- Converts track log points to lines
- Flexible data collection options:
  - GPS receiver and digital camera only (or other device) in the field. No PC or cable connections required
  - Real-time with tablet/laptop PC
  - GPS integrated geotagging cameras
- Export ArcMap display and layers into interactive HTML file with hyperlinks and user-defined pop-up labels

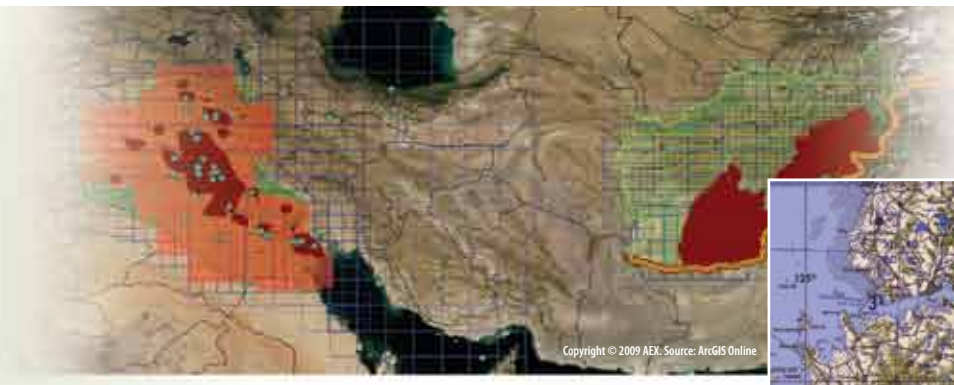
- Geotagged Data
- GPX Data
- Track Log
- Waypoints
- Routes
- Upload/Download

## RPF Tools

The GeoRover RPF Tools extension provides the capability to create map indexes from a file-based source of raster product format (RPF) data and view the index within the ArcMap application. Common RPF formats include Compressed ARC Digitized Raster Graphics (CADRG) and Controlled Image Base® (CIB®). The RPF Tools extension is specifically designed to address very large RPF datasets in any directory structure and is optimized for rapid indexing and display of this data. Data management tools for querying, selecting and copying RPF datasets make an ideal tool for managing RPF data, staging data for loading into other applications, and distributing to disconnected users. Map zooming and navigation tools provide an easy and confident user experience for using RPF data within the ArcMap application.

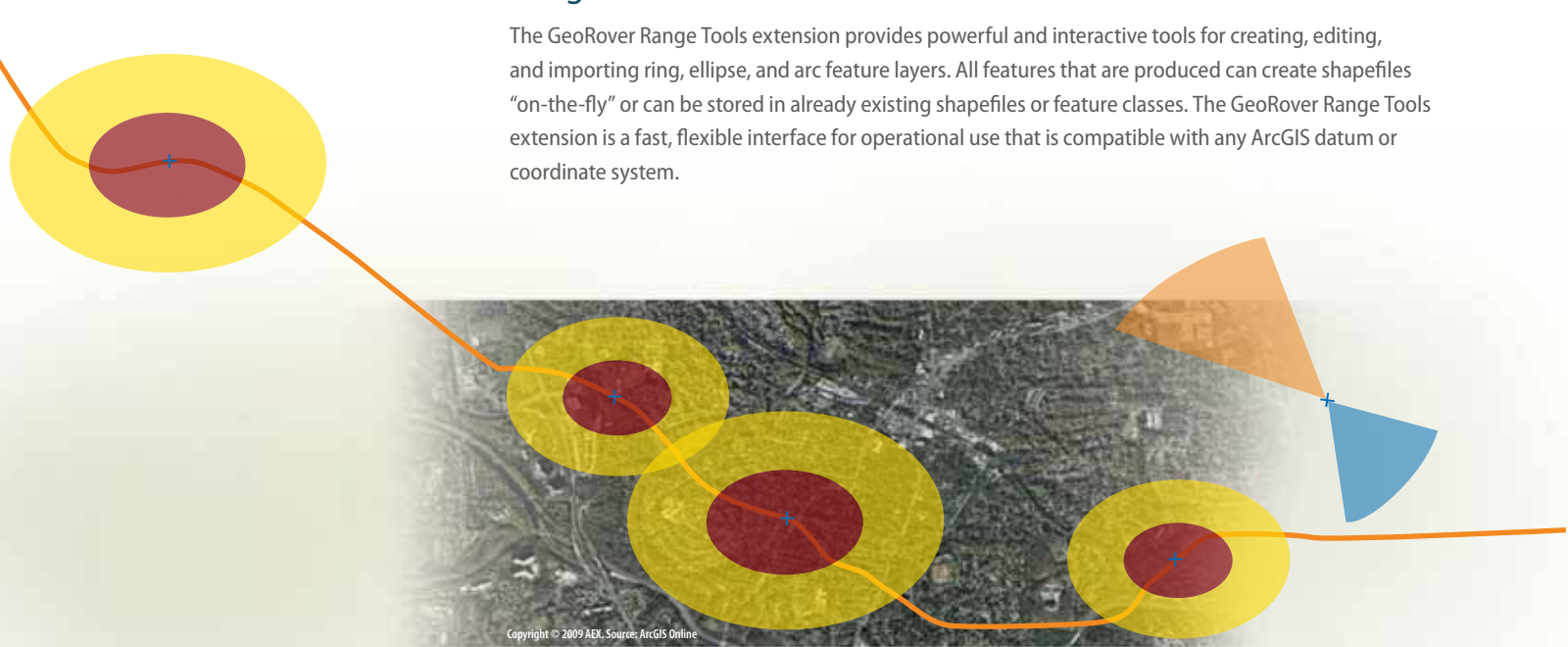
### Features

- Rapid map index creation from RPF data in any directory structure
- Create and work with map indexes in the ArcMap application; no requirement to use the ArcCatalog™ application
- Add new RPF data to existing indexes; most recent data is automatically selected for the index
- Wireframe and product controls conveniently located in the ArcMap application Table of Contents
- Selection tools for custom selection of map product(s) coverage areas
- Copy map data tools for chipping-out subsets of existing map indexes/data and moving to new location
- Delete map data functionality for removing unwanted data and reclaiming disk space
- Special zoom tool for efficient navigation through map product sets
- Integrates the ArcMap application Identify tool for viewing crucial RPF metadata



## Range Tools

The GeoRover Range Tools extension provides powerful and interactive tools for creating, editing, and importing ring, ellipse, and arc feature layers. All features that are produced can create shapefiles "on-the-fly" or can be stored in already existing shapefiles or feature classes. The GeoRover Range Tools extension is a fast, flexible interface for operational use that is compatible with any ArcGIS datum or coordinate system.



### Features

- Interactive (point-and-click) and coordinate-based tools for creating, editing, and deleting ring, ellipse, and arc features from shapefiles and geodatabase feature classes (personal, file, and enterprise ArcSDE®) "on-the-fly" within the ArcMap interface
- Wizard-driven import tool creates or updates ring, ellipse, or arc feature layers from any delimited text file (.csv, .txt, .tab, etc.) Excel® spreadsheet, database (Access™, Oracle®, SQL Server®, etc.), or even semi-structured copy/pasted text with coordinates
- Updating feature parameter values (radius, diameter, heading, sweep, semi/major axis, semi/minor axis) updates feature size/shape instantly
- Range features are always geodetically correct when created and edited using the Range Tools extension
- Options menu available for customizing user preferences and default settings including add/edit and layer symbology, feature creation methods, and coordinate system behavior

## MIMapView

The GeoRover MIMapView extension provides tools for situational awareness by integrating full motion video (FMV) feeds from unmanned aerial vehicles (UAVs) or other platforms with the commercial ESRI® ArcGIS® Desktop application (ArcView®, ArcEditor™, or ArcInfo®). MIMapView provides tools that are designed to work with Motion Imagery Standards Profile (MISP) compliant video feeds, a standard format used by many UAV platforms.



### Features

- Displays metadata information for any Motion Imagery Standards Profile (MISP)-compliant FMV feed streams with KLV metadata
  - Zoom To option menu provides options to 'Zoom To Platform', 'Zoom To Image', or 'Zoom To Platform and Image' (extent of both)
  - Zoom To and Pan To option settings for each platform/image footprint
  - Provides options to 'Keep On Map' and 'Keep Centered' to provide optimal viewing settings for watching metadata information
  - Provides options for adding, editing and removing feeds
  - Customizable symbology for each feed
- #### Display Platform Location
- Track multiple platforms simultaneously in the ArcMap™ application using different symbols/colors for easy identification.
  - Historical platform track can be displayed in the ArcMap application
- #### Display Platform Video Feed Location
- Display platform video feed location (video footprint) by reading metadata from real-time FMV
  - Plots are based on real-time or archived data
  - Automatic sensor footprint sizing based on metadata

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