GeoRover® Mobile Solution

GIS IN THE PALM OF YOUR HAND

POWERFUL FIELD COLLECTION SOLUTION FOR DYNAMIC MAPPING ENVIRONMENTS

The Leidos GeoRover Mobile software solution combines powerful desktop capabilities with the flexibility of mobile devices to streamline and enhance the process of capturing, editing, and sharing field collected GIS data. Through a combination of robust and flexible interactive collection tools and Map-Pack import and export wizards, the GeoRover Mobile solution brings the collection, editing and visualization of field collected data to the palm of your hand.

The GeoRover Mobile Desktop application provides the ability to package the data for use on your device. This tool enables users to import imagery, shapefiles, feature classes, and KML files. Users can also build point, line, and polygon feature collection layers to deploy pre-defined schema for field collection on mobile (phones or tablets) devices running the GeoRover Mobile application.

The GeoRover Mobile application is a program that resides on mobile devices that support the Android™ platform. This application can be used in connected or disconnected environments and allows users to edit and create features in existing shapefiles or feature classes. The mobile application integrates both internal and external global positioning systems (GPS) and available connected networks, including Wi- Fi™ networks, to provide current location data and to display map images from published Web Mapping Services (WMS).

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MOBILE APPLICATION FEATURES

▶ Utilize available network connections, including Wi-Fi networks, to display published WMS map layers

▶ Add point, line, or polygon features to existing layers using interactive touch screen functionality

▶ Supports editing of feature classes with coded value domains or pick lists set in layer schema

▶ Take photos, including geotagged photos or voice recordings, with the mobile device or attach photos from the mobile gallery to point, line, or polygon features

▶ Use real-time GPS location to create waypoints, track logs, and routes when connected to an internal or external GPS, including Bluetooth®

▶ Move selected point or reshape a line or polygon feature with versatile vertex editing

DESKTOP COMPONENT FEATURES

▶ Create Map-Packs from existing raster and vector datasets and WMS connections

    › Choose existing raster dataset as base map layers such as: JPEG, JPEG2000, GeoTIFF, MrSID, ERDAS IMAGINE .img

    › Define WMS map layers to be displayed as a map image on the mobile device when connected to an available network

    › Include point, line, and polygon features from existing shapefiles, feature classes, and KML files

    › Create new point, line, and polygon feature collection layers

▶ Map-Packs allow vector layers to contain existing features or empty layers with pre-defined schema

▶ Easily export layers from the Mobile application as shapefiles, feature classes or KML files

▶ Automatically reprojects imported data to WGS 1984 from its current projection
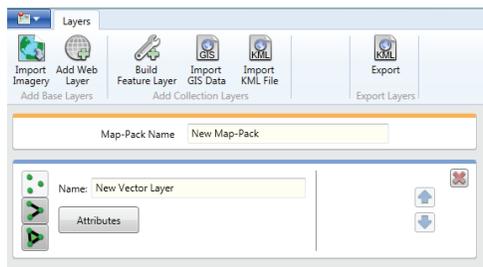
The Map-Pack Explorer provides a user friendly interface for preparing Map-Packs and for disseminating data in multiple GIS formats.

The GPS toolbar enables the creation of features, waypoints, and track logs and the ability to zoom to current location with an internal or external GPS connection.

BENEFITS

› Works in connected and disconnected environments

› Integrates with available GPS and Wi-Fi networks

› Works with numerous mobile devices and tablets running the Android platform

› Imports and exports data in formats compatible with the powerful ArcGIS® Desktop application

› Easily collect field data, including geotagged photos and voice recordings

› Complements existing GeoRover software extensions for the ArcGIS for Desktop application

› Flexible licensing options include Single Use

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