HEXAGON
GEOSPATIAL

MOBILE MAPWORKS

BRINGING GIS TO THE FIELD

Do you need to update your GIS from the field, directly from your mobile device? Mobile MapWorks is a practical tool for local governments, transportation authorities, utilities, communications providers, and more. Easy to configure, this app enables you to directly see, edit, validate, and update your enterprise GIS data from the field in real time.

Downloadable as an iOS and Android™ app, Mobile MapWorks provides quick navigation and map display with precise indication of GPS position. You can also search for features based on attribute values.

Accessible through a simple interface, Mobile MapWorks uses Open Geospatial Consortium (OGC®)-standard web services. This means that the app is compatible with all GIS platforms on the market and lets you work directly in your database without any data conversion, synchronization, or

temporary data stores. This open architecture allows field updates to become instantly available to any and all GIS platforms you use on the desktop, web, or mobile devices.

Mobile MapWorks also supports offline workflows and database synchronization with mobile devices, so that data is available constantly, even when there is no signal. Field crews can continue to perform their work including query and update, with edits synched back to the database upon reconnect. Mobile MapWorks is vendor agnostic and supports a wide variety of databases, including Intergraph's G/Tech and GEN!US databases.

BENEFITS

EASY TO SET UP AND USE
The graphical interface is customized for display on smaller screens. Using Open Street Maps backdrops let you magnify the assets collocated within meters of each other. Reference your GIS data against consumer Google maps or Bing Maps.

ADVANCED TECHNOLOGY
Supports the latest Geography Markup Language (GML), Web Map Service (WMS), Web Map Tile Service (WMTS), Web Feature Service (WFS) interface specifications. Complex geometry types are now supported for G/Technology, meaning there are no limitations when using G/Technology data in field workflows. Use Leica's Zeno 20 hand-held, Android-based GPS device to inspect and document assets to within 1 meter accuracy.

Mobile MapWorks in mapview

REAL-TIME RESPONSE

With rapidly responding navigation and map display, field personnel can capture and edit spatial data in real time. Your databases are updated on the fly, without importing, exporting, or data conversion. As data is edited, field inspectors can instantly create inspection reports at the scene.

FLEXIBILITY

Although Mobile MapWorks was originally designed to meet the demands of government institutions, this flexible product is not locked to any specific workflow. The user interface can be easily configured to fit a wide variety of purposes.

WHERE IT'S USED

Mobile MapWorks can easily be implemented to meet your organization's unique needs, easily integrating with your existing workflow. Local governments are already using Mobile MapWorks to regularly update assets such as:

- Public works features including water valves, street lights and bus stops
- Roadway and transportation assets including traffic signs and lights
- Environmental and park furniture such as trash bins and green areas

HOW IT WORKS

Mobile MapWorks is for iOS and Android tablets. Access to the GIS data and the allowable operations are configured based on user roles, securing your enterprise information, and ensuring data integrity. All changes in the field are communicated over 3G, 4G, or wireless connections back to the GIS database through Web Map Services (WMS) and Web Feature Service Transactions (WFS-T). The updates are then returned back to the field inspectors device through those same OGC services.

PREREQUISITES

Mobile MapWorks can be implemented for any customer with an OGC-compliant GIS infrastructure that works with WMS and WFS-T. If your infrastructure does not support these interfaces, a custom solution can be provided for you.

About Power Portfolio

The Power Portfolio from Hexagon Geospatial combines the best photogrammetry, remote sensing, GIS and cartography technologies available. Flowing seamlessly from the desktop to server-based solutions, these technologies specialize in data organization, automated geoprocessing, spatial data infrastructure, workflow optimization, web editing, and web mapping.

The Platform Suite enables you to efficiently build and deploy smart solutions that fit your needs.

About Hexagon Geospatial

Hexagon Geospatial is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications. Learn more at hexagon.com.

Platform Suite
POWER PORTFOLIO