HEXAGON
GEOSPATIAL

MOBILE MAPWORKS

BRINGING GIS TO THE FIELD

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

Downloadable as an iOS, AndroidTM, or Windows 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 Mobile MapWorks 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 all GIS platforms you use on your desktop, web, or mobile devices.

Mobile MapWorks also supports offline workflows and database synchronization with mobile devices, so that data is available constantly, even in areas with no connectivity. 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.

BENEFITS

EASY TO SET UP AND USE

GeoMedia The graphical interface is customized for display on smaller screens. Using Open Street Maps backdrops lets you zoom in on assets collocated within meters of each other. Reference your GIS data against consumer Google Maps or Bing Maps.

ADVANCED TECHNOLOGY

Mobile MapWorks supports the latest Geography Markup Language (GML), Web Map Service (WMS), Web Map Tile Service (WMTS), and Web Feature Service (WFS) interface specifications. Place non-feature line and area vectors on a map and automatically measure in metric or imperial units. Use Leica's Zeno 20 hand-held, Android-based GPS device to inspect and document assets to within one-meter accuracy.

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 confined to any specific workflow. The user interface can be conveniently configured to suit a wide variety of purposes.

Mobile MapWorks in Mapview

WHERE IT'S USED

Mobile MapWorks can easily be implemented to meet your organization's unique needs, readily integrating with your existing workflow. Local governments use 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, Android, and Windows devices. Access to GIS data and 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 to field devices through those same OGC services. For offline workflows in areas with no connectivity, Mobile MapWorks uses the GeoPackage OGC standard for the storage of both vector and raster data to be used in the field. Synchronization back to the enterprise database can be accomplished when connectivity is re-established using the same OGC services as with connected workflows.

PREREQUISITES

Mobile MapWorks can be implemented for any organization 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 helps you make sense of the dynamically changing world. Known globally as a maker of leading-edge technology, we enable our customers to easily transform their data into actionable information, shortening the lifecycle from the moment of change to action. Hexagon Geospatial provides the software products and platforms to a large variety of customers through direct sales, channel partners, and Hexagon businesses. For more information, visit www.hexagongeospatial.com or contact us at marketing@hexagongeospatial.com.

Hexagon Geospatial is part of Hexagon, a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications. Hexagon's solutions integrate sensors, software, domain knowledge and customer workflows into intelligent information ecosystems that deliver actionable information, automate business processes and improve productivity. They are used in a broad range of vital industries. Hexagon (Nasdaq Stockholm: HEXA B) has more than 18,000 employees in 50 countries and net sales of approximately 3.3bn USD. Learn more at hexagon.com.