

GeoMedia WebMap

Publish high-performance web applications with a simple click of the mouse



GeoMedia WebMap

GeoMedia WebMap supports a broad range of customers who need to visualize and examine geographic data on the web. From easily creating standards-compliant web services to providing sophisticated visualization and analysis within interactive web mapping applications, GeoMedia WebMap enables users to build powerful solutions to share your organization's rich geospatial data.

Publish maps with a click of the mouse

Using GeoMedia as a visual authoring environment, GeoMedia WebMap allows you to publish high-performance web applications with a simple click of the mouse. GeoMedia WebMap enables direct creation of interactive web maps by using the configuration and application creation tools provided in GeoMedia itself, eliminating the need for programming. Configure the layout of the web application interface and create user-defined queries and other components. Publish the Mobile Works for field inspection directly from GeoMedia. Provide direct, real-time access to your geospatial data. Users can view, query and analyze multiple geospatial formats simultaneously, with no pre-publishing or translation required.



GeoMedia WebMap Publisher is built into the Geospatial Portal to provide easy web application creation from a GeoMedia GeoWorkspace.



Geospatial Portal provides a 3D globe capable of rendering base maps, terrain and numerous other data sources in 3D, including those from GeoMedia WebMap.

Real-world benefits of GeoMedia WebMap

- Harness the power of GeoMedia workflows with enhanced GIS data publishing and management
- Organize and manage field inspection work and data processing for entire departments or organizations
- Bring the power of geospatial processing to the web
- Use the powerful engine to process, render and publish vector data in many formats
- Maximize the value of your geographic information
- Access your geospatial data and functionality quickly and easily
- Access and analyze your data anywhere, anytime
- Improve productivity
- Operate the system with no programming expertise required
- Work confidently with a solution based on industry standards
- Benefit from proven performance scalability model

Powerful visualization capabilities

GeoMedia WebMap utilizes Geospatial Portal as an integrated web client for web map publishing and provides the capabilities for users to view, analyze, capture and update geospatial information in 2D or 3D. The GeoMedia WebMap Publisher add-on to GeoMedia allows users to easily create web applications directly from a GeoMedia GeoWorkspace. Use GeoMedia WebMap Essentials to publish powerful websites with the dedicated GeoMedia WebMap Publisher Portal or simplified version of Geospatial Portal-Consumer, suitable for public users. Unlock the full functionality of Geospatial Portal-Classical with the GeoMedia WebMap Advantage and Professional tiers.

Robust web service support

Support for web service industry standards, including OGC and XML, gives you access to industry-standard web tools. Deliver data with ease into client applications using GeoMedia WebMap's industry-defined web services, including OGC WMS (Web Map Service), OGC WFS (Web Feature Service) and OGC WMTS (Web Map Tile Service). Leverage the power of the web in the mapping environment with web services for query and map generation, feature manipulation, routing, address geocoding and catalog query.

INSPIRE-ready implementation

GeoMedia WebMap implementation follows the Infrastructure for Spatial Information in the European Community (INSPIRE) Technical Guidances and is INSPIRE compatible. The INSPIRE directive establishes an infrastructure for sharing spatial information among public authorities in Europe. With GeoMedia WebMap, customers can set up an INSPIRE view, download, discover and coordinate transformation service instances out of the box.

Numerous search engines

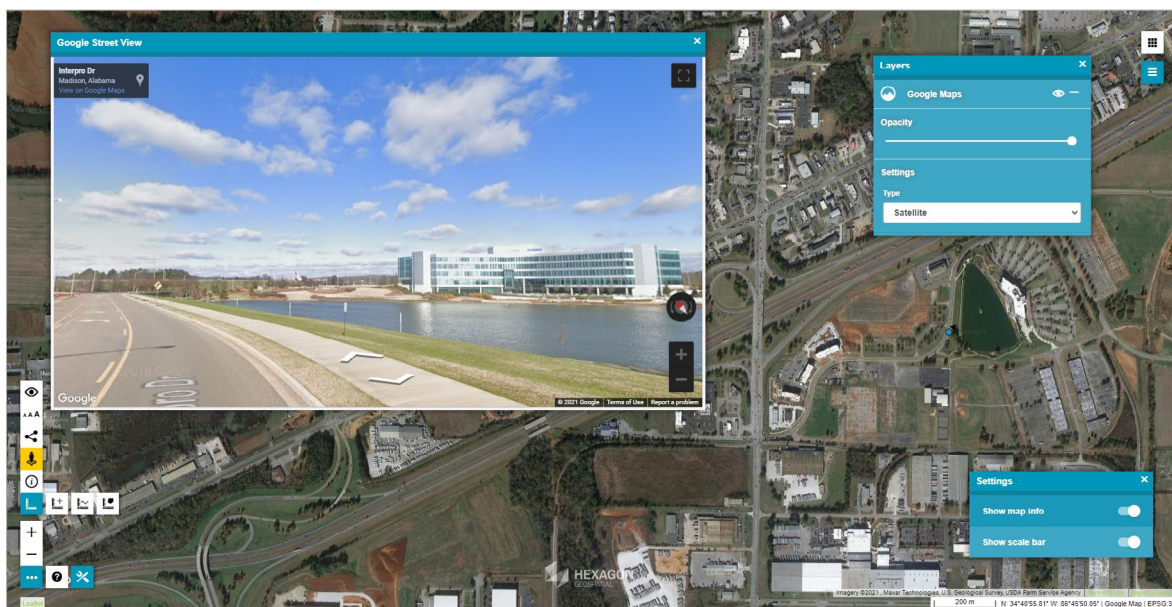
Diverse GeoMedia WebMap search engines allow users to choose and configure the best services for particular workflows and bind them with dedicated web applications. For example, Location Utility Web Service for addresses and parcels, WFS- Gazetteer for geographic names search, Oracle search for databases, WMPS search for raster and vector data or integrated within web apps: Coordinate Search and Google Places Search.

Easy editing

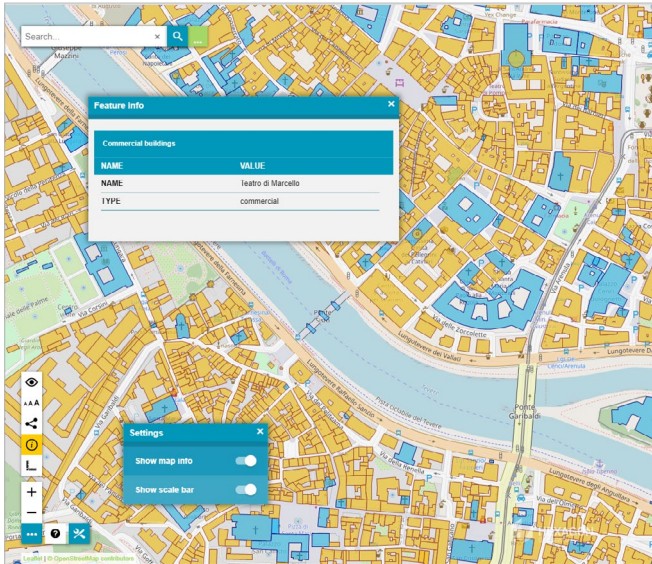
GeoMedia WebMap allows you to manage the entire lifecycle of data, from capturing new data, viewing and analyzing existing data, to updating and modifying that data based on your analyses. Capture spatial data in accordance with a central data model and write it directly to GeoPackage, SQL Server, Oracle, PostgreSQL or Microsoft Access. GeoMedia WebMap also facilitates the creation and update of attribute information. Editing capabilities available in the Advantage and Professional tiers are implemented within Geospatial Portal, providing one powerful editing workflow. The industry-standard OGC WFS-T is used to edit, update or delete the features in the database.

Integration with Google services

View more, explore more and search for more with integrated Google services. Users of Geospatial and Consumer Portal can display Google Maps layers, explore Google Street View and search for interesting objects by using Google Maps Places search service. Pins show the search result and feature details can be displayed in the Feature Info dialog. Using Google services allows you to see your GIS data in a wider geographical context. All available Google Map types — roadmap, hybrid, traffic, satellite or terrain — are supported. Google Maps layers and Places search can also be used in the GeoMedia WebMap Mobile app that provides access to users' GIS data and workflows in the field.



Geospatial Portal and Consumer Portal integrate with Google services.

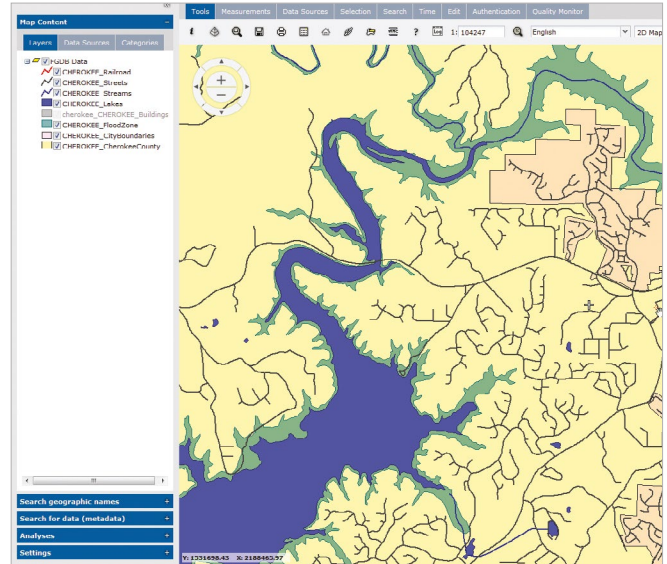


Lightweight Consumer Portal layout focuses on performance and users experience. Organize your workspace your way.

Consumer Portal layout

Consumer Portal is a simplified and user-friendly, entry-level layout for non-professional consumers of geospatial data, dedicated to end users who use maps for discovery and visualization, with minimum clicks required. It is optimized for performance and user experience and takes advantage of the most up-to-date web technologies and standards. The modern user interface is designed to enhance the most important user workflows with the displayed data, including accessibility features.

Consumer Portal, integrated with Google and other third-party services and search engines, allows users to find information with minimal effort and better understanding of GIS data by placing it in the appropriate geographical context.



Break down the walls of proprietary services by building websites and web services that natively access Esri File Geodatabase (FGDB) geospatial data, along with many other data types.

Complex spatial analysis

GeoMedia WebMap offers powerful analysis functions that can be combined or used individually. General analysis tools include buffer zoning, spatial intersection, spatial difference, analytical merge, aggregation, join, geocoding, reverse geocoding and functional attributes.

Advanced GeoMedia WebMap users can perform analyses such as route analysis (including OpenLS routing), proximity analysis and area allocation. GeoMedia WebMap also enables end users to conduct dynamic segmentation and linear analysis quickly and easily over the web. Dynamic segmentation is a powerful tool for analyzing tabular data that references linear features on a map and enables you to visualize asset inventory more clearly and efficiently than by reviewing columns of data.

In-depth query capabilities

With real-time links to GIS data warehouses, end users can perform various types of spatial and attribute queries.

Click on a map feature to see database information and export the results to other applications. Simple interfaces make it easy to quickly navigate through large quantities of information on a computer or mobile device.

Server administration

GeoMedia WebMap allows administration of web applications via an integrated, web-based administration console. This console lets administrators manage their servers and web services, as well as websites available on those servers.

Additional server configuration parameters may be modified, and websites/web services can be tested in real time with the click of a button in the Administration Console. Modifications will be immediately available even to end users on mobile devices with internet access.

Customize and extend

The powerful Geospatial Portal SDK lets developers customize portal workflows and experiences using extensive APIs, documentation and reusable code examples. The server-side APIs can also be used to build web applications based on GeoMedia objects.

One connected solution

GeoMedia WebMap connects to Hexagon's geospatial portfolio of products to comprise a seamless, complete solution to geo-enable your enterprise.

Product and interaction

GeoMedia can be used as a visual authoring environment to publish high-performance web applications with a simple click of a mouse.

Geospatial Portal is the fully integrated web client providing the ability to view, analyze, capture and update geospatial information in 2D or 3D.

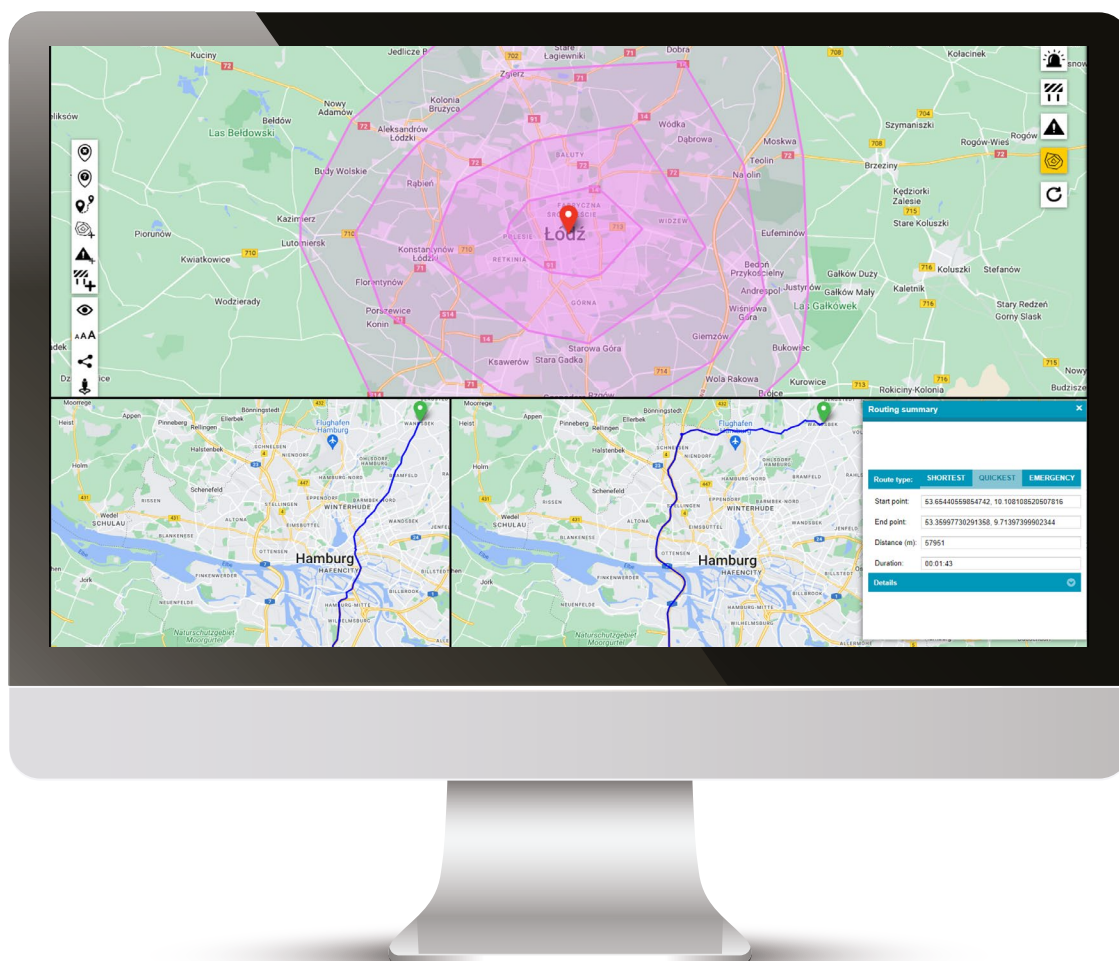
GeoMedia WebMap Mobile is an integrated mobile client for online or offline data editing while working in the field.

Geospatial SDI extends solutions based on GeoMedia WebMap with controlled access to standard compliant services.

Provide access to a wider variety of data types and on-the-fly coordinate transformation capabilities for GeoMedia Smart Client.

Combine the functionality of GeoMedia WebMap with Mobile Alert or Smart M.Apps.

Find any information quickly and precisely with powerful, easy-to-configure geocoding and 64-bit route services.



Compute the best path for the route by using route service.

Fast and accurate information retrieval with 64-bit route service

Route service is used to easily compute the best path between a given set of stops considering various criteria for the route. Presented routes can be optimized in terms of travel time and distance and specially calculated for emergency vehicles.

Route service from Hexagon can be combined with Geospatial Portal or Consumer Portal using SDK customizations to create a powerful tool for any kind of public safety or traffic management authorities. Its capabilities and custom implementations allow roadblocks to be set so the best route can be re-calculated with consideration of obstacles, monitor the real-time position of units (e.g., firetrucks, police and ambulances), display real-time incidents and find the closest units (in a defined buffer zone) to an incident.

Hexagon's 64-bit route service supports common standards and data from third-party providers, including formats like HERE and TomTom MultiNet and improved TomTom format table name inference. It also supports customer data from GeoMedia Warehouses. Additional data can be connected via sources like Oracle, Shapefiles, MS SQL Server, PostGIS and GeoPackage. With 64-bit implementation, large datasets can be handled, and routes are calculated faster.

Flexible method to find any geospatial information with geocoding

Location Utility Web Service (LUWS) along with Geospatial Portal or Consumer Portal creates a versatile tool for the spatial data infrastructure industry, where searching for any GIS information is crucial. It offers multiple, powerful search capabilities. Geocode searches can be configured over any structured geographic data, including, but not restricted to, POIs, addresses, street junctions and parcel numbers. Reverse geocoding within a set distance between points is also supported.

LUWS and its configurable parsing methods can easily tailor the search service to specifics of given languages, alphabets, cultures and geographic regions. Many different address patterns within one search service can be used. LUWS can be built on any supported

GeoMedia Warehouse, for example, Oracle, SQL Server and other database engines, including shapefiles, MS Access, GeoPackage and other file-based storages. Transformation can be easily defined (outside of the LUWS configuration), allowing various data providers to be used.

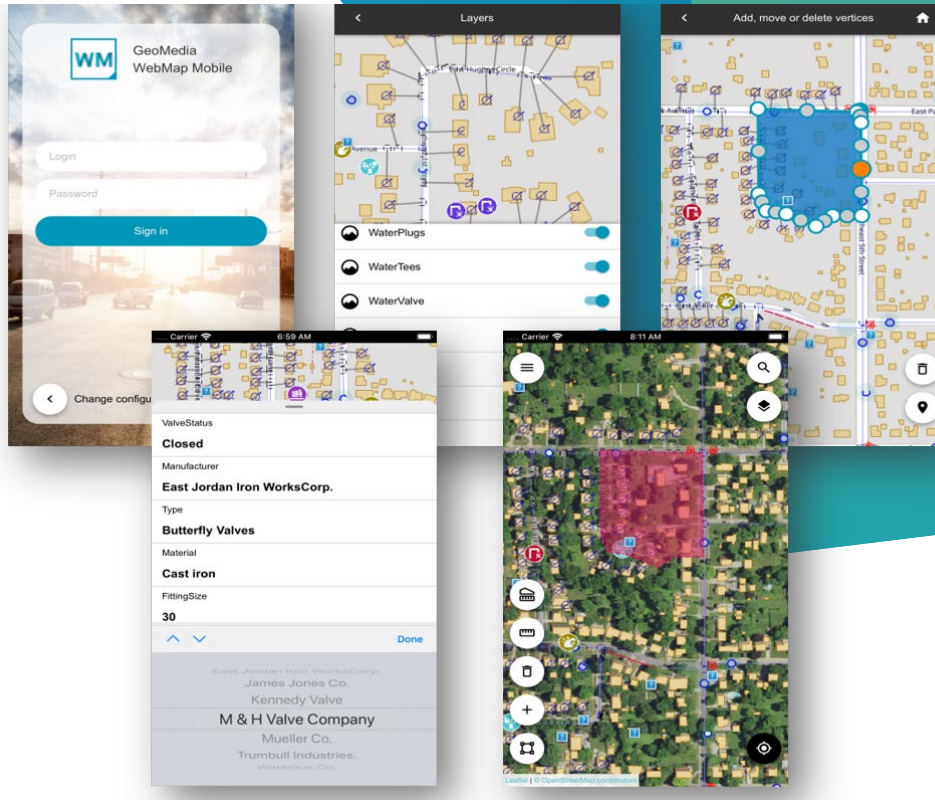
No programming skills are required to configure and adjust the service behavior to the customer needs and aspects specific to various regions. All preparation steps can be done with a few clicks in bundled tools.

For the end user, searching for data using a LUWS service in Geospatial Portal or Consumer Portal is like using a well-known Google search. The location of found objects is presented on the map with a pin.

The screenshot displays the Geospatial Portal interface. At the top, a search bar contains the text "Kalonka 104/6". Below the search bar, a list of search results is shown, including "140310_5.0003.104 - Kalonka 104", "Kalonka, 10", and "100608_2.0006.104/6 - Kalonka 104/6". The main map area shows a satellite view of a residential area with red pins indicating search results. A red circle highlights a specific area on the map. In the bottom right corner, a "Reverse geocoding summary" table is displayed, listing distances, addresses, and coordinates for various locations.

Distance [m]	Address	Coordinates
6	OSTLANDRING 12, 21787 OBERNDORF	53.750250.9.144490
13	OSTLANDRING 8, 21787 OBERNDORF	53.750070.9.144460
18	OSTLANDRING 10, 21787 OBERNDORF	53.750210.9.144180
26	OSTLANDRING 14, 21787 OBERNDORF	53.750210.9.144060
31	OSTLANDRING 6, 21787 OBERNDORF	53.749920.9.144570
46	OSTLANDRING 7, 21787 OBERNDORF	53.749800.9.144690
51	OSTLANDRING 4G, 21787 OBERNDORF	53.749830.9.144940
54	OSTLANDRING 4F, 21787 OBERNDORF	53.749830.9.145010
61	OSTLANDRING 5, 21787 OBERNDORF	53.749650.9.144630

LUWS in Geospatial Portal or Consumer Portal offers powerful search capabilities.



Field workers can connect to their organizations' GIS with GeoMedia WebMap Mobile.

GeoMedia WebMap Mobile

Field workers can easily connect to their organizations' GIS, both online and offline, with GeoMedia WebMap Mobile. In offline mode, this native mobile application allows users to work in areas with no signal and on devices intentionally disconnected from the internet.

GeoMedia WebMap Mobile can be used for many types of field and site inspection workflows, such as pole or vegetation inspection for utilities or public works, traffic light and bridge inspection for transportation authorities and cell or mobile tower site inspection for communications companies.

GeoMedia WebMap Mobile enables you to directly see, edit, validate and update your enterprise GIS data from the field in real time. You can configure mobile applications to specific workflows for personnel and define user permissions. Additionally, you can specify backdrop raster data.

The product supports third-party data providers such as Google (Google Maps), Microsoft (Bing Maps), HERE (HERE Maps), OpenStreetMap and many other overlays of GIS information, as well as vector data that specific users can see and edit.

GeoMedia WebMap Mobile uses OGC-standard web services, making it compatible with many GIS platforms. This means no custom data conversion is required.

GeoMedia WebMap Mobile is available on the Apple Store, Google Play Store and Microsoft Store.



Hexagon is the global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications. Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Safety, Infrastructure & Geospatial division improves the resilience and sustainability of the world's critical services and infrastructure. Our solutions turn complex data about people, places and assets into meaningful information and capabilities for better, faster decision-making in public safety, utilities, defense, transportation and government. Learn more at hexagon.com and follow us [@HexagonAB](https://twitter.com/HexagonAB).