



Web Map Viewer & Editor

Intranet GIS and web mapping

Web Map Viewer & Editor are browser-based and off-the-shelf applications for corporate use by public and private organisations.

Web Map Viewer and Editor meet the needs of organisations which require more control over the display and manipulation of spatial data than is provided by web map publishing solutions. They provide a cost-effective solution to the situation where 80% of corporate GIS users require only 20% of GI functionality to do their job.

Web Map Viewer is the read-only version of the product. It provides a complete, easy-to-use and off-the-shelf application for viewing, querying, measuring and redlining map-based information by means of a web browser.

Web Map Editor extends the functionality of Web Map Viewer to meet the needs of users who occasionally edit spatial data, but don't need the advanced editing capabilities of more expensive desktop products. With Web Map Editor a non-expert user can create, edit and delete both the geometry and attributes of spatial data.

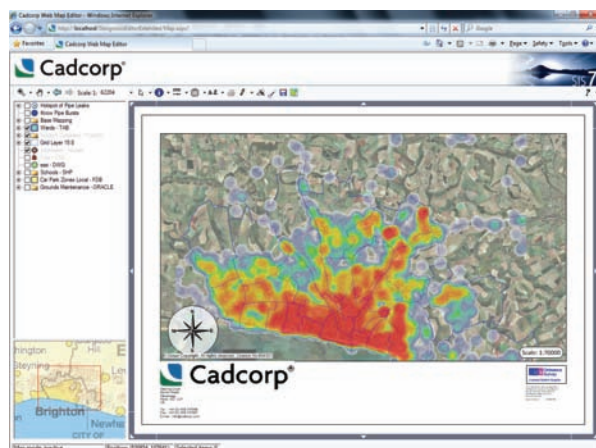
Together Web Map Viewer & Editor comprise all the components required for an intranet GIS and web mapping solution: the browser-based application itself, a geospatial web services engine (GeognoSIS), and administrator software (Map Manager) – in a single off-the-shelf package.

The application

Web Map Viewer provides the following functionality to the browser, out-of-the-box:

- a customisable information/loading screen with a map frame
- main map windows with optional watermark/copyright text
- key map
- navigation controls

- overlay controls
- data extract
- interface options
- measurement tools
- redlining
- printing
- gazetteer – via Microsoft Access, Microsoft SQL Server, Oracle or PostGIS
- querying, including customisable map tips
- styling for user drawn graphics
- user security and access control
- extensible user interface
- configurable user controls
- overlay access



Using Web Map Viewer to create a PDF file for plotting

Web Map Editor provides all of the functionality of Web Map Viewer, plus:

- data construction based on the current overlay
- geometry creation and edit (New, Edit, Delete)
- attribute creation and edit

The engine

Underpinning Web Map Viewer & Editor is an advanced geospatial web services engine – GeognoSIS. This is capable of supporting both web mapping and more complex web GIS. In its web mapping role GeognoSIS is certified to act as a standalone Open Geospatial Consortium Web Map Service (WMS) or Web Feature Service (WFS). GeognoSIS can also act as a service to other systems such as Bing and Google Maps. Web Map Viewer & Editor are able to take advantage of these capabilities, but more importantly, they are able to use GeognoSIS' capabilities as a web GIS engine. In its web GIS role GeognoSIS acts as a shared service to advanced geospatial methods which would otherwise be replicated on standalone and desktop GIS platforms.

As well as providing geoprocessing capabilities, GeognoSIS is also responsible for aggregating an organisation's spatial data resources, prior to sharing the data with the web browser. It can do so, either by reading the data at source, without translation, and irrespective of the native data format; or by reading directly from a central spatial database. Cadcorp provides powerful tools for the administration of such spatial data in Oracle, PostGIS, and Microsoft SQL Server databases. These tools shield the user from the administrative complexities of database management. When data is held in a centralised spatial database, users of Web Map Viewer & Editor are assured that they are working with the most recent versions of data. Conversely, as soon as they make changes to the central database, these changes are immediately available to other database users and applications. Cadcorp also provides tools that allow SIS data to coexist in a database with data from other vendors.

Administration

Cadcorp provides administrators with a powerful and user-friendly means of loading and manipulating spatial data, controlling the information displayed on the browser, and controlling access to that data. This is achieved through the Map Manager application. Map Manager is the means to create and manage a shared project file which allows the user to define the data, styling and cartography that will be used by Web Map Viewer & Editor. Map Manager's user-interface is graphical and geographical: it presents administrators with a graphical depiction of map overlays, as they will appear in the browser. This avoids administrators having to work with textual descriptions of the characteristics of overlays, and having to imagine the visual impact of any administrative changes they may make. Administrators control page styling, map styling and map content through configuration. There is no coding involved.

The benefits of Web Map Viewer & Editor

One of the challenges facing any organisation is how to share information amongst different people and systems. All too often valuable geographic information is locked into departmental silos, or available only to 'GIS experts' using complex GIS products. Web Map Viewer and Editor offer cost effective ways for an organisation to unlock its investment in spatial information by making information available for viewing and editing by any employee with access to a web browser.

Web Map Viewer & Editor are off the shelf applications which are nonetheless configurable without coding. They are simple to use and simple to deploy. Above all, they are cost-effective, as they can be used to replace more expensive desktop solutions. Organisations also benefit from the fact that when they acquire Web Map Viewer & Editor they are also acquiring a general purpose geospatial web services engine – GeognoSIS. They are free to use GeognoSIS to power other web GIS and web mapping applications – without additional licencing.



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