

Description

eMap.NET is a web based GIS product designed to deliver mapping information in an Internet environment to the general public.

eMap.NET can be implemented as a standalone web page, or used as the mapping component of a larger web based application, and is fully supported as the *Civica eServices Mapping* component.

eMap.NET is developed by Integrated Facility Management, who maintain it as a state-of-the art product in close consultation with its customer base.

eMap.NET has the following features and functions:

Modules

User Interface

The user can perform the following operations:

- set the map size.
- return to the original map size.
- click on the map to zoom in to an area of interest – first by selecting a *Region*, then by selecting a *Subregion* (e.g. suburb) to reach a *Detail* level.
- set *Pan/Zoom* pointer mode at detail level - a click on the map recentres it at that point, and optionally zooms in or out by a factor of 2 or 3.
- set *Select* pointer mode at detail level - a click on the map selects and highlights the nearest point item (icon) or polygon item (e.g. property).
- pan the map N, NE, E, SE, S, SW, W or NW by half its current dimensions.
- zoom in or out using a zoom bar with 11 selectable scale levels.
- return to the previous map after a pan/zoom operation.
- turn map layers on and off.
- show whether map layers will be omitted at the current scale, as greyed layer names.
- show brief metadata details about map layers, as tooltips on layer names.
- print map – the current map is redisplayed within a standard Cadcorp print template in a new browser window, ready for printing.
- help – user documentation is displayed in a new browser window.

Configuration

The system administrator can configure the following parameters:

- the initial map width, height and its minimum size (pixels)
- the Cadcorp SWD file to be used
- the Cadcorp NOL file to be included (optional)
- the Region layer name in the SWD
- the Subregion layer name in the SWD
- the Property layer name in the SWD
- the maximum map scale
- the border (m) to be added around requested polygons and GPS points
- the search radius (pixels) used when selecting GPS points
- the highlight colour to use for selected polygons and GPS points
- the background colour to use for the map frame
- the top margin size for the map frame
- the horizontal alignment for the map frame
- the number of columns for the overlays panel
- the font size for the overlays panel
- the url prefix to be used in the API (optional)

Application Programming Interface

The Application Programming Interface (API) provides the following methods, implemented as URLs with querystring parameters for the browser frame or window used for eMap.NET and for those of a web application that is integrated with it:

From eMap.NET to an integrated web application:

- polygon selected - supplies the layer and id of a polygon selected on the map.
- GPS point selected - supplies the layer and id of a GPS point selected on the map.

To eMap.NET from an integrated web application:

- initialise eMap.NET
- set URL and frame or window name for subsequent map select actions.
- toggle map layer on or off, subject to scale thresholds.
- zoom to display a set of polygons on a given layer of the map, optionally highlighting them in a given colour, optionally adding to the selection for that colour.
- clear the map of polygon highlights of a given colour, or of all colours.
- display a set of GPS points on the map, given their IDs, their x,y coordinates and their icon types, optionally adding to the current set (each icon type is symbolised on the map by using a Bitmap file of the same name on the web server).
- Clear the map of GPS points.

Note that where a third party web application is to be integrated, its supplier should be consulted to establish which API methods are supported and how they are implemented.

Requirements

Client Systems

eMap.NET is designed for access by any contemporary JavaScript-enabled web browser on any computer platform. It is currently tested against Internet Explorer 6.0 and Netscape 7.1 on Microsoft Windows, and Safari 2.0 on Apple Mac OS X.

Server Systems

eMap.NET servers should be minimum 2.4Ghz CPU and 512MB RAM with:

- Microsoft Windows Server Edition 2003
- Microsoft Internet Information Server 6.0
- Cadcorp GeognoSIS.NET 6.1 or later

Map Data

eMap.NET supports the entire range of map datasets that the Cadcorp product range supports.

Licensing

eMap.NET software licensing details are covered in its software licensing agreement.

Documentation

eMap.NET includes online help, designed to also be printed. The API documentation is supplied as a web page designed to both document and test each method, using a supplied set of test data.

Training

eMap.NET has standard and custom training courses for system administrators.

Software Product Services

A variety of service options are available from Integrated Facility Management. For more information, contact your local IFM office.

The information in this version of this SPD is valid at the time of its release. Please contact your local IFM office for the most recent version of this SPD.

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