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Cadcorp GeognoSIS™ Web Mapping

Cadcorp GeognoSIS™ makes the wide-ranging functionality of Cadcorp SIS® – Spatial Information System® available over the web for interactive mapping applications, or a corporate intranet for the enterprise-wide deployment of GIS applications and data.

GeognoSIS can be used by a wide range of clients including custom web applications, the Cadcorp SIS desktop product family and Map Browser, a free application to browse geographic data served by Open Geospatial Consortium Inc.® (OGC®) W*S services.

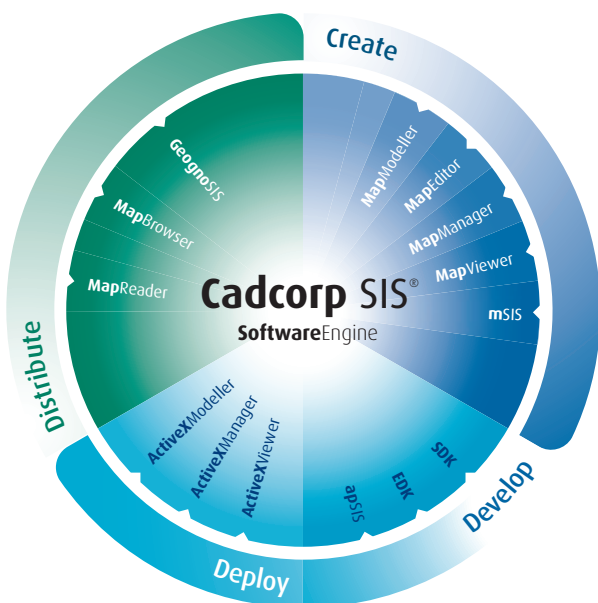
Platform support: Microsoft Windows 2003 Server, Microsoft Windows 2008 Server operating system for a deployment server, and Microsoft Windows XP or Microsoft Windows Vista (Business and Ultimate) for application development only.

Key Features & Benefits

Data access: Sharing the Cadcorp SIS core engine, GeognoSIS supports over 160 GIS, CAD, graphic and database formats without the need for translation. Supported formats include ESRI Shape, ESRI Personal GeoDatabases, ESRI ArcSDE, ESRI ArcIMS, MapInfo TAB and MIF/MID, OGC GML, GeorSS, AutoCAD DXF/DWG 2004+, MicroStation DGN, OS MasterMap, MrSID, ECW, KML, Oracle 10g or 11g, Microsoft SQL Server 2008 and PostGIS.

Certified OGC compliant interfaces throughout and as standard: GeognoSIS is a certified OGC compliant server for Web Map Service (WMS) and Web Feature Service (WFS). Client support is provided for Web Map Context Documents, Geography Markup Language (GML), and SQL 92 databases. WFS can also serve OS MasterMap® in its native XML schema.

Flexible development options: The Cadcorp SIS Enterprise Developer Kit (EDK) comes with everything the developer needs to make the creation of web mapping applications quick and straightforward. This licence includes a copy of Map Modeller. GeognoSIS can be customised using industry-standard web development environments including ASP, JSP, PHP, .NET and ColdFusion. Both Microsoft Visual Studio.NET (or equivalent) and non-Microsoft SOAP toolkits are supported.



Flexible deployment options: GeognoSIS is based on a client/server model, which allows for flexible configuration of the network infrastructure and the GeognoSIS architecture. Some of the more common deployment options include:

- A single web server running Internet Information Server (IIS), ASP.NET and GeognoSIS.
- A Web server running IIS and ASP.NET (or Apache serving JSP) which is then linked to a separate server running GeognoSIS.
- GeognoSIS running on a separate server, being used and accessed by a client through two connections. The first is established via the web server to download a client application; the second created by the downloaded application and communicating directly with GeognoSIS via SOAP protocols. Thick client applications developed by Cadcorp use this architecture.

'Thin client' or 'fat client' – it's your choice: GeognoSIS based applications can be delivered as thin or thick clients. Thin clients are immediately accessible in any HTML browser and are therefore suited to simple internet applications. Users need not download any browser plug-ins to run an application.

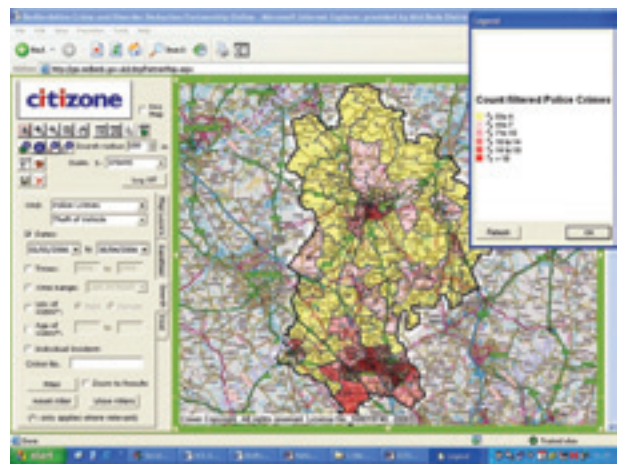
Thick client applications download a Java 'applet' or a .NET 'assembly', and run it on the client. These applications are suited to corporate intranets and benefit from higher levels of client-side interaction and GIS functionality.

Scalability and performance: GeognoSIS is a multi-threaded application resulting in a more efficient use of processor resources.

The GeognoSIS Manager allows a systems administrator to create and manage 'clusters' of multiple servers, i.e. for use with a load balancer or within a load-balancing farm.

GeognoSIS supports 'stored procedures', i.e. server-side scripting, allowing developers to enhance its API by sharing procedures, and to improve application performance by reducing network traffic.

GeognoSIS allows for Map and Formula Caching. Instead of recalculating themes on every redraw, complex calculations such as spatial overlaps can optionally be cached and recalculated only when necessary, thus increasing performance. Support for 'processor affinity' enables a system administrator to allocate a GeognoSIS process to be run on a particular processor, or set of processors in a multi-processor machine, further improving performance by spreading server load.



Feature rich mapping and GIS functionality: With a common GIS engine at the core, GeognoSIS can access all of the GIS functionality of Cadcorp SIS, to deliver everything from simple data access applications right up to complex, desktop-like, GIS analysis, for example:

Incident Reporting: Click on map, enter details and write to an external spatial database such as Oracle 10g.

Spatial, Attribute and Gazetteer Searching

Spatial Search: Click on map, search for map features within a given distance and show details in tabular form.

Attribute Search: Locate an item by searching on attributes, re-centre map on item and zoom to appropriate scale.

Gazetteer Search: Link to industry standard gazetteers to search and locate address information.

Data Export: Generate a file containing map data in one of over 40 Cadcorp supported export formats and provide a hyperlink to allow the user to download.

Digitisation: Digitise points, text, rectangle and circle with user defined symbology.

Overlay Control: To show overlays and subdivisions, themes, overlay metadata, and legends.

Thematic Mapping: Visualise and analyse data using bar chart, pie chart, dot density, graduated symbol, label, individual value and ranges thematic maps.



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