GeoMedia® SDI Portal from Intergraph® is a Web application that acts as a client for spatial data infrastructure (SDI) services. It is installed and configured on a Web application server so multiple users can access the site via Web browsers. It is used to find, view, and query geospatial data published with standard SDI Web services and integrate multiple sources into a single map view that can be easily navigated.

SDI encompasses Web-based technologies aimed at increasing collaboration and re-use of map-based data. Demand for SDI has grown rapidly driven by legislation that obliges public bodies to publish data, as with the European Union’s Infrastructure for Spatial Information in Europe (INSPIRE) directive. It is also being adopted by forward-thinking governments and businesses as a strategy to increase the value derived from spatial information (both their own and that of partners), by making it more widely available throughout their organization and its key business systems, and to support collaboration with partners and customers.

First-generation SDIs enabled GIS-users to discover and download copies of spatial data sets. Now, Intergraph’s new GeoMedia SDI Portal is exploiting the next generation of SDIs, providing a far wider community simple, interactive, and flexible access to geospatial information using open Web services.

SDI Portal optimizes the client browsing experience when connecting to SDI services. Its inherent flexibility enables it to connect to open standards-based services, whether from Intergraph, other server technologies, or a combination of both.

SDI Portal simplifies the process of finding, connecting to, and displaying spatial data published through Web services and provides a modern and attractive user experience. It ensures smooth browsing through intuitive navigation controls and technical advances such as asynchronous communication that ensures panning and zooming are not interrupted by having to wait for servers to respond. The client’s utility is enhanced by additional tools, such as area and distance measure, control of the appearance of individual map layers, and the ability to save and recall the current map context. SDI Portal supports all the Web services and open standards a modern SDI client requires.

**KEY BENEFITS**

- Provides a powerful, yet simple-to-use, browser application for finding, accessing, and visualising geospatial data via open and industry-standard Web services
- Enables direct collaboration among government, business, and the public
- Addresses the unmet demand for geospatial information and services among non-GIS users
- Enables direct access to data via an SDI Web service, removing the need to download and translate datasets
- Component of Intergraph’s comprehensive SDI application – you can use SDI Portal as a standalone browser application or as part of a comprehensive SDI implementation

**BEST-IN-CLASS CAPABILITIES**

Implementation of a spatial data infrastructure requires both server side and client side capabilities. Intergraph’s SDI strategy is to offer you a choice by providing best-in-class capabilities you can implement as a comprehensive infrastructure, as standalone components, or in conjunction with components from other suppliers, including Open Source. The infrastructure’s design reflects Intergraph’s close involvement working with the Open Geospatial Consortium (OGC®), ISO, and the European Commission’s Joint Research Centre (JRC) in the development of the standards and concepts that underpin INSPIRE, as well as its participation in EU research projects and successful implementations of national and regional SDI nodes in Europe.
and around the world. Intergraph SDI solutions support geospatial industry standards, including ISO and OGC, as well as government initiatives, such as INSPIRE, U.S. National SDI, Canadian Geospatial Data Infrastructure, and the United Nations SDI.

A flexible, modular system that covers:

- Delivery and management of advanced server-side services and processes. In addition to publishing services, it provides tools for managing, monitoring and reporting of service performance against SLAs.
- Advanced client-side discovery, connection, and interaction through a simple client geo-browser that provides an intuitive and attractive user experience.
- Simple tools to streamline and manage the creation of SDI metadata.
- Comprehensive suite of software and services to deliver an efficient, high-performance, and sustainable SDI.

**KEY FEATURES**

- View maps from WMS services 1.1.1 and 1.3.0
- View maps from WMTS service 1.0
- Simultaneously displays maps from different services, including the transparency adjustment of each single layer
- Retrieve services and data using metadata and CSW catalogue services CSW 2.0.2 ISO AP 1.0
- Query for services
- Query for datasets and datasets series (compliant with INSPIRE requirements)
- Geographic names searches using Gazetteer Service (WFSG)
- Display content of GeoRSS feeds
- Modern, intuitive mouse control for simple map navigation and better user experience
- Perform queries against WFS services working both with WFS 1.1 and WFS 2.0 (ISO 19142)
- In addition to ISO 19142, ISO 19143 for filter encoding is also supported
- Use WCTS and INSPIRE WPS-CT for online coordinate transformation
- Measuring functions within the map
- The ability to save and restore current map context
- Preview window

**INTERGRAPH – YOUR SDI SOLUTION PROVIDER**

SDI technology provides innumerable benefits for government/business collaboration and public distribution of geospatial data, helping to streamline processes and improve efficiency of data sharing. Intergraph clearly understands the demands and necessities of our customers in implementing an SDI-enabled solution, and will work with you to implement a successful and cost-effective SDI that meets your exact needs. For more information, visit: www.intergraph.com/govt/sdi.aspx.

**ABOUT INTERGRAPH**

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph’s industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer and smarter. The company’s software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation and data management of plants, ships and offshore facilities. Intergraph SG&I provides geospatially powered solutions to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is an independent subsidiary for SG&I’s U.S. federal and classified business.

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