Sun, IBM, and ESRI: Meeting the Challenge

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For more than 30 years, ESRI has been the leading developer of GIS software with more than 300,000 clients worldwide. ESRI's goal is to provide users with comprehensive tools to help them quickly and efficiently manage and use geographic information to make a real difference in the world around them. ESRI can be found on the Web at **www.esri.com**.

ESRI has partnered with both IBM and Sun for many years. As an IBM Strategic Alliance partner, ESRI offers a complete set of GIS tools that are fully integrated with IBM DB2. IBM and ESRI jointly developed the DB2 Spatial Extender to enable the integration of geographic, map-based data with your important business data.

ESRI and Sun Microsystems are strategic collaborators in the rapidly expanding GIS market. ESRI selected Sun as the official hardware provider for the Geography Network (**www.geographynetwork.com**), a one-stop Internet marketplace for searching, accessing, and utilizing geographic data and services. The site provides thousands of international maps linked to information such as transportation networks, topography and land records, census records, financial services data, socioeconomic data, and more. Users in every industry around the world go to the Geography Network Web site to use, share, and publish the value-added geographic information and services.

To learn more about IBM DB2 on Sun solutions and service offerings, visit **www.sun.com/db2** or **www.ibm.com/software/data/sun** or talk to your local Sun and IBM Sales representatives.

Send email inquiries to: **db2sun@us.ibm.com**.

For more information regarding DB2 Spatial Extender, visit **www.ibm.com/software/data/spatial**.

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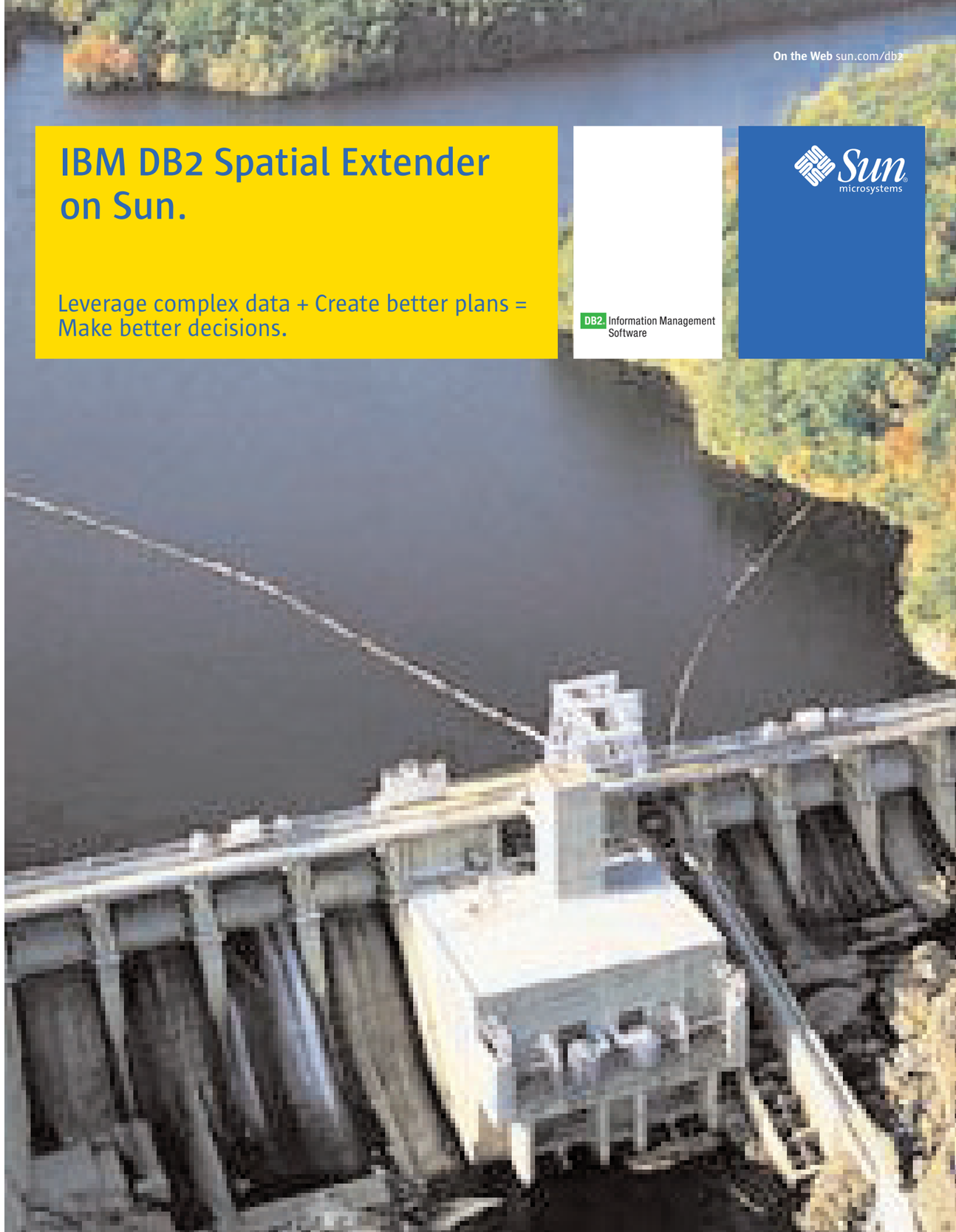


Three dimensional answers

See things spatially with DB2 Spatial Extender on Sun.

When your organization is responsible for taking everything into account, you need more than a basic road map to find your way. Whether you're finding the best location for a new store, analyzing natural resources, or in pressure-packed response mode, two-dimensional information won't help you make three-dimensional decisions.

The data you'll require – transportation networks, topography, land and census records, climate, and health care data – can be drawn from multiple platforms and sources. Integrating and visualizing the layers of information in the most useful manner becomes critical.

You need to be able to see things spatially. You need DB2 Spatial Extender on Sun.

DB2 Spatial Extender on Sun Highlights:

- Combines the robust IBM® DB2 Universal Database™ (UDB) with the excellent performance and reliability of Sun™ servers.
- Analyze, store, and manage spatial information – all in the same database.
- Powerful and affordable platform for volume deployment of geospatial solutions.
- High performance helps increase system efficiency and productivity.
- Exceptional graphic visual quality enables better-informed decisions.
- Increase workflow and reduce costly duplication between agencies.

See Everything with DB2 Spatial Extender on Sun

The DB2 Spatial Extender on Sun enables the integration of geographic, map-based data with your important business data. Developed jointly by IBM and ESRI on Sun, this powerful solution opens a new universe of business intelligence applications. DB2 Spatial Extender on Sun draws data from multiple sources and platforms, integrating diverse spatial data – the locations of office buildings, or the size of a flood zone – with more traditional business data. Using ESRI's advanced geographic information system (GIS) technology, DB2 Spatial Extender on Sun allows you to store, generate, and analyze this data so that you can quickly produce spatial maps that instantly communicate.

For government agencies and related organizations – particularly health, emergency and security services, and natural resource planning agencies – spatial maps are increasingly important to planning and preparedness. DB2 Spatial Extender on Sun enables firefighters in Australia to combat major wildfires and it improves the productivity of field healthcare personnel by providing mobile access to real-time information needed to assess community health risks.

DB2 Spatial Extender on Sun is also applicable to almost every industry around the world, including telecommunications and utilities, agriculture, health care, military and intelligence, petroleum, and education organizations. These groups are now able to more easily access and manipulate huge databases of spatial and geographical data to be used for everything from mapping, zoning, and land use planning to site planning and "call before you dig" utility installations.

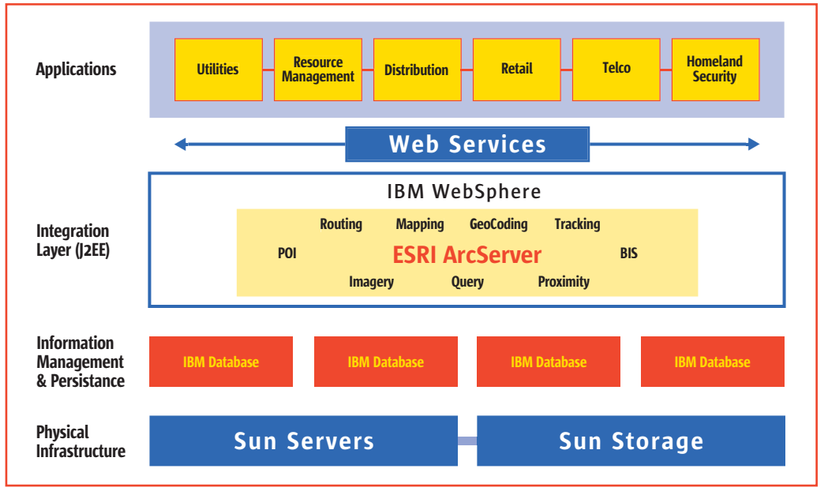
DB2 Spatial Extender on Sun: Combined Strengths

The combined strengths of IBM DB2's spatial abilities with ESRI, the industry leader in developing spatial software, and Sun Microsystems' robust, scalable multi-processor servers, offer cost-effective and high-performance spatial data sharing, utilizing state-of-the-art thin client and Web service technology.

The IBM DB2 Spatial Extender offers a best-of-breed solution, enhancing data collection and analysis to provide real-time spatial data, and adding another element of intelligence to your database. DB2 Spatial Extender combines an advanced set of point, linear, and polygonal geometries with functions and features that allow you to integrate spatial information with your business data.

DB2 Spatial Extender also has an indexing guidance tool to help with performance and tuning considerations and to improve import and export capabilities for shape files. These capabilities allow more precision and control over how and where spatial data is stored. In addition, DB2 Spatial Extender allows users to define their own specialized spatial types, methods, and functions to further customize Spatial Extender to their business needs. With DB2 Spatial Extender, you can:

- Store, manage, and analyze spatial data along with traditional text and figures.
- Run dynamic queries, including units of measure, allowing you to specify the unit that is to be used to measure lengths, distances, and areas.
- Enhance the intelligence of existing applications by allowing you to use spatial data and functions in queries.



Sun Microsystems provides the ideal geospatial platform for DB2 Spatial Extender, providing an affordable and high-performance product line. Sun hardware provides security, scalability, and dependability. Sun provides industrial strength infrastructure that meets the requirements of GIS technology including high-performance database access, Network and Internet superiority, and Industry-leading visual quality. In particular, the Solaris™ platform is particularly well suited to complex and powerful products like SDE because of its scalable multiprocessor architecture, which offers high quality graphics and imaging with fast I/O.

DB2 Spatial Extender on Sun combines leading technology and services from IBM, ESRI and Sun to create a suite of the top, best-of-breed, geospatial solutions to meet your GIS and business intelligence needs. The end result: increased workflow and reduced costly duplication between agencies, while providing real-time and near real-time spatial data and mapping products to governments, businesses, and citizens.