

Data sheet: ISM – Open Spatial Data Warehouse

Management of Spatial Data

ISM allows organisations that manage spatial data to expand the use of spatial data within the entire organisation whilst improving usability and significantly reducing costs.

Oracle

ISM supports all Oracle 8i, 9i and 10g platforms and is based on the Oracle SDO_GEOMETRY standard data type including the Oracle MDSYS schema. In addition ISM also can be used with all Oracle Spatial functionality. ISM supports all different SDO_GEOMETRY data types such as point, line, polygon etc. in both 2D, 2.5D and 3D.

Security and User Privileges

ISM security and user privilege control is based on Oracle Users and Roles with additional ISM functionality. This enables GIS administrators to create the necessary data security and to easily build up user privilege schemas for individual users or user groups.



With ISM, a total system solution based on neutral data storage can be established, where all applications access the database directly and without the use of any supplier specific middleware or data storage. Existing GIS systems and GIS applications including customer specific add-ons can therefore stay unchanged, thus maintaining previous investments both in software licences, installation and training.

ISM ensures that:

- The entire system environment can be managed through one application.
- All users work on up-to-date and shared data.
- You enforce the strength of geographic database technology.
- You can create a logical, well-structured and high quality information database.
- The underlying data is strictly controlled with metadata and audit trails.
- Interoperability between different GIS can be achieved providing a corporate environment that is truly data centric.

- ISM (Independent Spatial Management) is a software package that makes management and usage of geographic information stored in both databases and file systems more efficient.
- ISM is developed directly on Oracle and can therefore be installed and used together with all geographic information system (GIS) applications that have the ability to read and write geographic information stored in Oracle Locator or Oracle Spatial.
- ISM simplifies the entire geographic application environment and provides simple and useful tools and applications for both end-users and system administrators. ISM creates an efficient environment in a modern IT-architecture that supports data security, access and distribution of up-to-date geographic and geographic related information.
- Maps and data sources can be easily administered with the same application as the other CAD/GIS systems within the organisation.

ISM Data Definitions

The base for ISM is the definition of source data, the Meta-layer. Cartography is associated with each Meta-layer and forms the Layer of symbolised information. These Layers can be grouped into Data Collections and formed into Map Products.

The ISM information model efficiently sets- up various map contents and layouts. All information is stored in a GIS-neutral structure, directly usable by any GIS application, independent of supplier.

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Additional Modules

There are many other modules that can be made available allowing the organisation to expand its capabilities.

ISM SDM

SDM – Spatial Data Manager is a spatial design tool to administrate, check, control, analyse and register spatial data in Oracle. SDM provides GIS administrators with a simple and unique tool to load and manipulate data in an Oracle database.

ISM History and Version

ISM History & Version module includes administrative and end user tools to view and compare historical datasets. The module includes functions to manage object versions and enables users to easily create and restore objects from any time or version.

Others

- ISM Plot
- ISM Work Flow
- ISM Topology
- ISM Web
- ISM Mobile
- Etc..

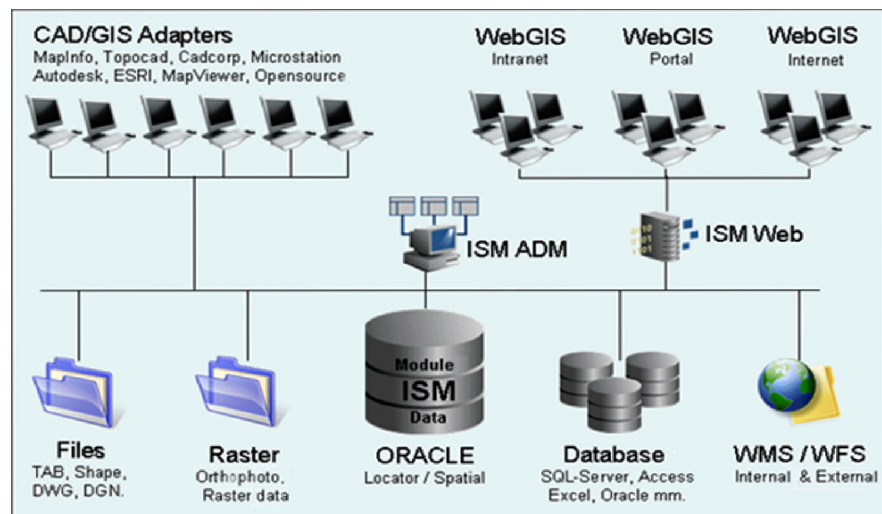
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Key features and benefits

ISM ADM - Administration:

The ISM Administration application, ISM ADM, is included in the ISM Server, and the main tool used by GIS administrators for managing the organisation's GIS environment including all map data, cartography and associated alphanumeric information as well as all GIS applications and GIS-users.

ISM ADM is a Windows client and is installed on the system administrator's PC.. ISM ADM is a multi user application allowing several administrators to work on the same ISM database concurrently.



ISM creates an application supplier independent solution with the following content:

- One Administration tool for all data and all CAD/GIS applications.
- One data access and security system adapted for GIS usage.
- One Meta database containing information about your data including origin, accuracy etc.
- Simple to use information tools for all users.
- Common cartography and style handling including map text.
- Support for both spatial databases as well as geographic files.
- Common document management for linking of information.
- Definition of geographic area and search functions for defining users' work areas.
- Definition of map content and cartography including visibility rules.
- Information on coordinate systems and projections.
- Function and application library for Oracle Spatial databases.
- Integration tool-set for various databases.
- Common application definition.