



Geomatica Image Management System (GIMS)

Having problems storing and managing all that image data? How recent are the images and GIS layers in your database? Can your GIS department keep up with increasing demand for image and mapping products?

Introducing GIMS, the Geomatica Image Management System that enables organizations large and small to effectively manage and access geospatial data. Developed in partnership with Oracle, GIMS is a robust, enterprise-wide solution designed to handle the storage, processing, and access of all geospatial data types, including aerial photos, satellite images, scanned maps, metadata tables, basic text, and more.

Using Oracle 10g and the new GeoRaster data

“Imagery is the only geographic data that can be acquired in a scheduled manner for a specific area, providing rapid access to current, accurate, mission critical information.”

type, imagery can now be accessed using SQL in the same manner as text and vector data, making it easy for all users to find the imagery they are looking for. With GIMS, all your geospatial data can now be stored within a single location. No

longer will you need to search through file systems or CDs to find the right image!

The

Geomatica Image Management System’s modular framework allows for system components to be added when needed.

“Today, data is too abundant, too complex, and too large to manage via traditional methods.”

The core system includes utilities for loading data into the Oracle 10g database, including image data and any associated metadata. Add a web

interface using eSpatial’s iSMART technology, or add PCI’s Geomatica software as a thick client. In addition, the system can support any 3rd party software that can access Oracle data.

Better geospatial image management for your enterprise

GIMS works as follows:

1. **Load** data into central database – PCI Geomatics’ **GeoRaster ETL** (Extract, Transform, Load) product is used to load your geospatial data files, along with associated image metadata and feature attributes, into an **Oracle 10g** database. This loading process is also available as an embeddable/scriptable object from PCI Geomatics; using PCI’s Software Development Kit (ProSDK), users can integrate raster and vector data loading into GIMS using Python, Java, and C++ programming languages.

2. **Store** data – Built using Oracle 10g as a platform, GIMS provides a complete relational database for geospatial data/metadata storage. Eliminate (*finally!*) the need to have your imagery reside on CD/DVD, laptops, or multiple servers. Say goodbye to BLOBS and experience the power of GeoRaster by storing your imagery (satellite,

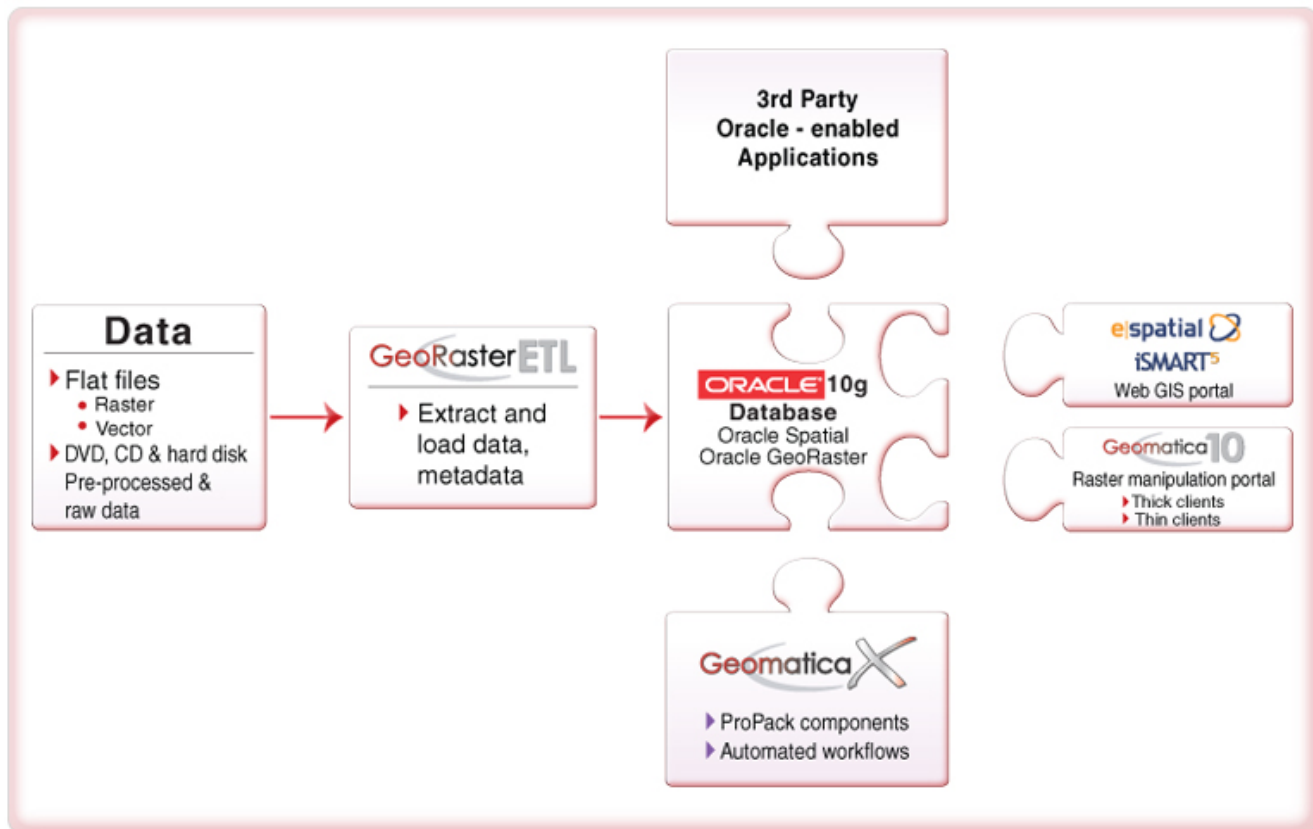
“GIMS...‘Picture’ better geospatial management for your enterprise.”

aerial...) and grid based data (DEM’s, scanned maps...) natively in a secure, scalable, centrally managed environment using GIMS.

3. **Process** and share your data – utilize Geomatica, PCI Geomatics’ complete geospatial software suite to access, process and analyze your data. Geomatica is useful for enterprises that are preparing and extracting information from imagery, integrating imagery with GIS vector layers, or managing large raster datasets.

4. **Access** and **share** data - using iSMART5, eSpatial’s advanced geospatial platform, access, edit and share your geospatial and business information with anyone in the world over the web.

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Benefits Summary:

- Integrated storage of all data (text, vector, and raster) in one database – including the storage of metadata
- Easy to use data loading utility (can be automated); streamlined data management
- Online availability of image data for users within the enterprise, including access through SQL
- Track image versions and other important metadata
- Easily combine imagery with other data types, including support for over 100 geospatial formats
- Multiple environments for data manipulation: Focus, iSMART, Modeler, EASI, Python scripting
- Support for powerful analytical tools, and simple web browser viewing

Is It for You?

The Geomatica Image Management System can be used in a wide variety of applications, including online imagery and photo archiving, environmental monitoring and assessment, geological engineering and exploration, natural resource management, defense, emergency response, telecommunications, transportation, and urban planning.

In fact, any organization with a geospatial data holding that is stored alongside business data can benefit from the GIMS solution.