

"The optimal database platform for storing and serving GeoSpatial Data on the Internet"

Overview

CubeSTOR® is a highly scalable Spatial Data Warehouse product that handles massive amounts of geospatial data, in vector, raster, imagery or metadata format. Built within the Oracle engine, this product stores, manages, accesses and publishes geospatial data (vector, matrix and imagery) on the Internet.

Building on their experience as the core design and development team behind the Oracle Spatial Data Option, CubeWerx developers designed CubeSTOR® from the ground up to be a robust, high-performance spatial database engine, with scalability and speed foremost in mind.

CubeSTOR® can rapidly ingest spatial data in a wide variety of formats, including all popular types of raster imagery and quickly get the data online to be served up on the Internet by our Web Services.

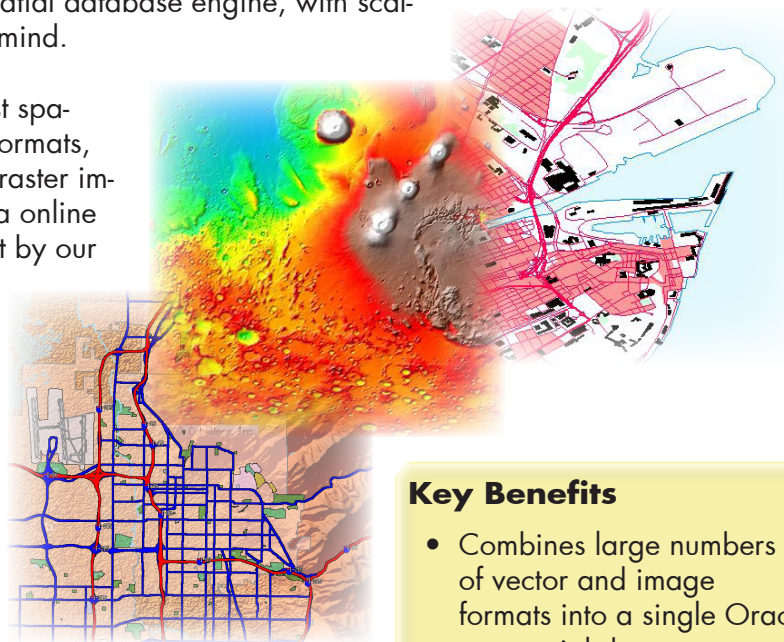
It integrates "data warehouse" functionality including: Drill-down, Roll-up, geospatial data aggregation and generalization, and can therefore support fast web-enabled navigation into terabytes of geospatial data.

In addition, it comes fully integrated with our Geospatial Web Server, CubeSERV®, "out of the box", allowing data loaded into the warehouse to be instantly made available on the Internet via any of the OGC protocols (WMS, WFS, WCS, etc..)

Spatial data partitioning

Any database solution designed to handle large volumes of data while remaining scalable requires that its data be organized very carefully. Most RDBMS products handle this volume issue using data partitioning, where data is stored internally in small manageable partitions and materialized to external applications as one large table.

CubeSTOR® goes one degree better. CubeSTOR®'s partitioning scheme is driven both by data volume and by the spatial properties of the data itself. When new data is inserted into a CubeSTOR® table, the system "knows" where that data belongs geographically, and places it accordingly. This means that geographically related data remain close to each other in physical storage on the hard drive. This equates to improved performance and scalability.



Key Benefits

- Combines large numbers of vector and image formats into a single Oracle geospatial data store
- Integrates 'data warehouse' functionality including: drill-down, roll-up, geospatial data aggregation and generalization
- Leverages the traditional advantages of an RDBMS solution, such as data integrity, etc

CubeWerx



Key Features

- Combines large numbers of vector and image formats into a single Oracle geospatial data store
- Integrates 'data warehouse' functionality including: drill-down, roll-up, geospatial data aggregation and generalization
- Uses OpenGIS® Consortium Well-Known-Binary (WKB) representation of spatial types as specified in OGC's SQL Simple Feature specification
- CWPublish utility that accelerates retrieval of preset tiles and associated map layers
- Scalable. CubeSTOR® can scale up to very large volumes (terabytes) of geospatial data with no impact on discovery of its content. Supports HTTP GET and POST methods for WMS operations
- Supports hundreds of spatial reference systems profiled under EPSG projections and datums and allows users to define custom projections
- Can ingest any type of geo-spatial data and serve it through any of the OGC published interfaces

Software Specifications - CubeSTOR® Spatial Database

Operating system requirements:

SUN Solaris, Linux (Red Hat ES or Fedora Core or SUSE)

Other software requirements

Oracle 8i, 9i, 10g or 11g is required



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