

Radius Transaction Manager™

Introduction

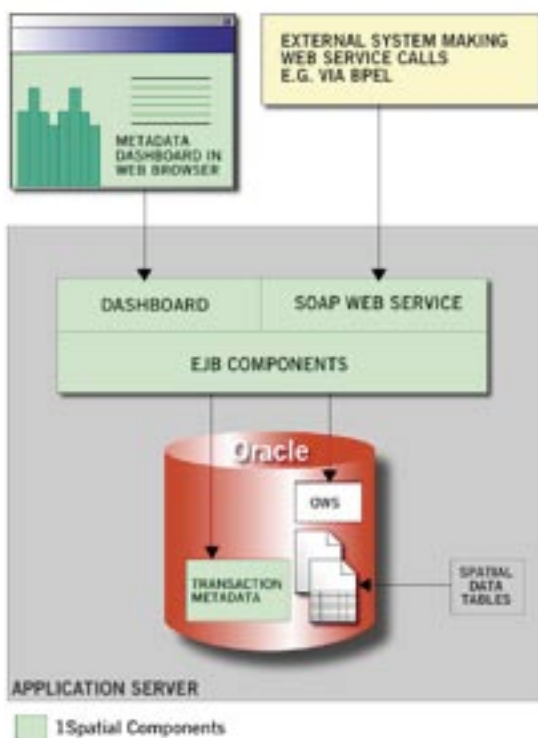
Radius Transaction Manager™ allows spatial transactions to be managed within a Service Oriented Architecture (SOA) using standard software components. A transaction is an operation that changes the data in a spatial database.

Radius Transaction Manager provides a Simple Objects Access Protocol (SOAP) Web Services Interface for Oracle Workspace Manager, allowing Industry Standard Workflow tools to control spatial transactions using technologies such as Business Process Execution Language (BPEL).

Together with Radius Job Manager™, this tool allows you to build a scaleable enterprise-wide workflow tool for controlling automated or manual database updates. It will 'lock' regions of data for performing long transactions via Oracle Workspace Manager. The Web Service is implemented over a J2EE component using EJB 3.0 entity beans and container managed persistence to store the job metadata.

Transaction metadata can be accessed dynamically via enterprise reporting components that provide clear, accurate summaries of transactions, including dashboard and drilldown functionality.

This tool is ideal for organisations with large numbers of operators working on spatial data and who want to automate the extraction or locking of regions of data for processing.



Requirements

Application Server: Oracle Application Server 10g Release 3 (10.1.3.1.0) + Top Link 2

Platform: Microsoft Windows XP, SUSE Linux Enterprise 10

Database: Database 10g

Edition: Enterprise with Oracle Workspace Manager

Platform: Any Oracle platform

Other Tools Required:

- UML modelling tool, that supports XMI 2.0 and XMI 2.1 formats
- Java JDK™ Version
- Apache Ant 1.7

Capabilities

Web Service Interface

The tool generates a SOAP Web Service interface. This means that spatial capabilities can be easily and quickly integrated into a range of enterprise systems such as workflow tools, reducing the cost and risk of developing these systems.

Uses Oracle Workspace Manager

The tool uses and provides access to the versioning and long transaction functionality within Oracle Workspace Manager, which is a standard Oracle functionality. This provides interoperability with other tools that support Oracle Workspaces meaning that full editing workflows can be easily developed using off-the-shelf editing tools.

Fully customisable

The tools uses Model Driven Architecture (MDA) techniques which allow the deployed system to be tailored to meet your needs, e.g. modifying the information stored for each transaction to reflect exactly your business processes. This will streamline the implementation and rollout of your workflow system.

Transactions defined spatially

Allows transactions to be based on tables and/or spatial extents defined by any polygon. This means that only the exact amount of data is required for the transaction, providing multi-user scalability and constraining users to only modify the required data.

Transaction Metadata Browser

An enterprise reporting tool provides allows users to browse transaction metadata, drilldown for more information and view dashboard summaries via a web browser.

Spatial-based transaction querying

As well as referring to transactions by id, the tool allows transactions to be queried based on the spatial location. For example 'find all transactions within this region' or 'find other transactions within 5Km of this location'.

