



Highlights

Progress DataXtend Enterprise enables the free flow of valuable information across the enterprise. Through a unique approach to the challenge of data integration, DataXtend Enterprise can ensure transactional synchronization of data across heterogeneous data sources, delivering data in the format required to applications in real time.

Features at a Glance

- Transactional synchronization across multiple databases ensures changes are reflected in real time in all databases.
- Patented conflict avoidance technology enables data changes to occur simultaneously across multiple databases.
- Robust data transformation between database vendors and database schemas supports the organic growth of your enterprise.
- Eclipse-based development environment with intuitive mapping reduces time to deployment.
- Graphical database navigator makes it easy to interrogate schema and data.
- Automapping and a Common Data Model reduce mapping complexity and accelerate development activities.

Data Integration for the Real-Time Enterprise

“Data silos” act as obstacles to organizations seeking to fully realize the potential of enterprise data. The DataXtend Enterprise data integration product enables the free flow of valuable information across the enterprise and supports development of business processes that span departmental applications and data sources.

DataXtend synchronizes data in real time across a distributed enterprise, using a transformation system based on a common data model. This unique approach to data integration applies bidirectional, “update anywhere” synchronization to heterogeneous data sources, while sustaining performance and scalability, and without disrupting applications or business logic.

In contrast to more traditional approaches to data integration that rely on reactive, tactical responses (see Figure 1 below), DataXtend Enterprise provides a proactive, enterprise-centric view with transactional synchronization. An Eclipse-based development environment, management tools, and DataXtend Enterprise’s non-invasive architecture simplify integration and offer ease of adoption.

Transactional Synchronization DataXtend Enterprise enables multiple relational databases to share data, governed by a unique locking strategy that guarantees transactional consistency of changes across the shared data set. DataXtend Enterprise provides the data integrity of two phase commit while also ensuring superior performance, scalability, and fault tolerance and support for a group of heterogeneous data sources.

	<i>DataXtend Enterprise</i>	<i>ETL</i>	<i>EAI</i>	<i>EII</i>	<i>Data Hub</i>	<i>Replication</i>
Latency	Real Time	Batch Delayed	Real Time	Real Time	Real Time	Real Time
Effect on Existing Applications	No Impact	No Impact	Requires Modification	No Impact	Requires Modification	No Impact
Consistency	Transactional	Read Only	None	Read Only	Transactional	Transactional
Availability	Highly Available	Highly Available	Highly Available	Single Points of Failure	Single Points of Failure	Highly Available
Updates Allowed	Everywhere	Only at Data Source of Record	Everywhere	Only at Data Source of Record	Only at Data Source of Record	Everywhere
Disk Space Requirements	Data Copied	Data Copied	No Copies	Data Copied	Data Copied	Data Copied
Richness of Mapping	Rich Transformation	Rich Transformation	Some Translation	Rich Transformation	Rich Transformation	None

No Impact
 Beneficial
 Some Negative Impact
 Strong Negative Impact

Figure 1. Comparison of DataXtend Enterprise vs. Other Applications

Bidirectional Data Transformation Updates can be initiated from any database. DataXtend manages the transactional integrity and data mappings between all participating databases. Changes are propagated and transformed to the unique format required by each database and no changes need to be made to the individual applications accessing them.

Sustained Performance and Scalability Unlike batch processing solutions, DataXtend delivers real-time propagation of database changes. Each database completes local transactions immediately, relying on distributed locking instead of requiring transactions to commit to all databases simultaneously. Once a transaction commits, the DataXtend runtime ensures that all shared data sees the results immediately. In this fashion, each database maintains responsiveness without compromising data integrity. By allowing multiple databases to process transactions concurrently, DataXtend increases scalability.

Transactional Integrity Enterprise applications rely on the data consistency provided by transactions in modern database management systems. DataXtend brings these same guarantees to the data integration layer. DataXtend ensures that each database executes all transactions in the same order, guaranteeing data consistency. Through patented conflict avoidance technology, DataXtend eliminates the possibility of multiple data sources processing incompatible updates.

Heterogeneous Database Support Enterprises that rely on multiple database vendors can now tie all of their valuable data together. DataXtend Enterprise enables both Oracle and Microsoft SQL Server to coordinate a shared dataset; additional databases will be supported in subsequent releases.

No Impact on Existing Applications or End-Users Modifying existing applications to support integration introduces risk and can cause disruption to business-critical operations. DataXtend Enterprise integrates the *underlying data*, with no impact to the applications themselves. DataXtend's transactional integrity guarantees ensure that existing business logic continues to execute correctly.

Ease of Adoption

DataXtend Enterprise minimizes the risk of implementing and deploying the infrastructure that provides transactional data coordination with:

Intuitive Development Environment

Using an Eclipse-based development environment (see Figure 2 below), data transformations between data sources can be easily defined. DataXtend Enterprise employs a common data model for all data transformations, greatly reducing the amount of time needed to introduce a new data source into the replication network. The DataXtend Studio provides tools to extract database schema, define data mappings to the common model, view existing database content, and automatically map similar schemas.

No Changes to Existing Applications

By integrating at the data source level, DataXtend Enterprise does not require changes to existing applications. By avoiding extensive analysis and modification of existing logic or development of new service layers, DataXtend Enterprise reduces the amount of development time and resources required to integrate data.

Low Impact Deployment and Administration Databases can be added to, or removed from, a DataXtend coordination group dynamically, without shutting down the database or applications. This minimizes impact on end-users. Validation rules performed during development ensure that each new database will integrate seamlessly with the others.

Transitioning from application and data silos to an integrated environment can unlock significant unrealized business value from an organization's existing data. By providing transparent data integration and synchronization with model-driven mapping, the DataXtend Enterprise solution delivers these benefits without disrupting existing applications and database systems.

Operating Platforms

- Development:
 - Windows® 2000, XP, 2003
- Deployment:
 - Windows® 2000, XP, 2003
 - Linux

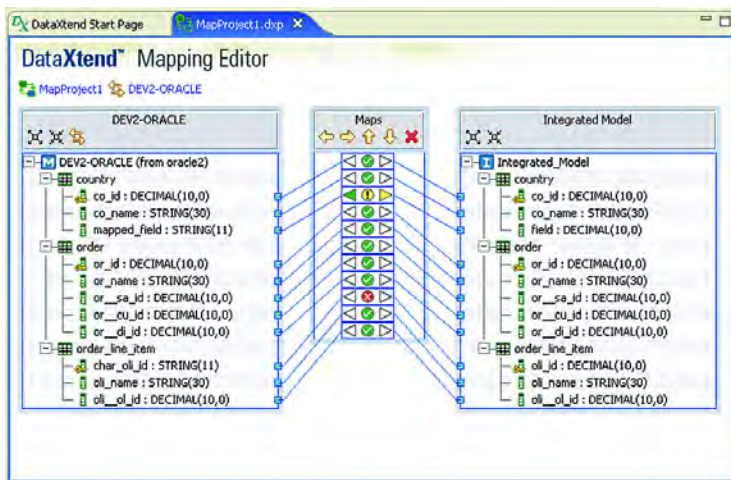


Figure 2. Eclipse-based Environment for Defining Data Transformations



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