



Xcalia Intermediation™

Gartner has selected Xcalia as a Cool Vendor in Data Management and Integration.

“IT architects and planners, development managers, and integration managers looking for high-performance scalable data and application integration platforms to enable business-critical SOA projects requiring the encapsulation of established databases and applications will be interested in Xcalia. ISVs and SIs seeking to add or embed SOA-enabled integration capabilities into their products and solutions will also consider Xcalia's offer.”

ABOUT XCALIA

Xcalia's dynamic integration software makes it easier for enterprises to build composite applications in SOAs while reusing valuable information resources, optimizing IT investments and reducing operating costs. Through Intermediation, a layer between the business model and the data/services resources, applications can be created or updated quickly to meet changing business demands. Xcalia is ideal for high-performance transactional applications that also need to reuse legacy and mainframe resources with maximum interoperability in any environment. Xcalia, headquartered in Paris, France, has offices in the US and Germany, and counts 20 large enterprises among its customers. The company is privately held. **For more on Xcalia, visit www.xcalia.com.**

ENTERPRISE CHALLENGES

Today's enterprise businesses must be more responsive to market requirements and customers. They need flexible, adaptable, platform-independent IT solutions in order to react quickly to business demand and to market changes, and to develop applications faster. To achieve this, CIOs have to manage a mixed bag of application packages, systems, platforms, and databases that contain valuable information resources that are difficult to access and often under utilized. As IT organizations begin to build new applications using flexible service-oriented architectures, they are becoming increasingly aware that they are not making optimal use of the packages and systems they have and are looking for ways to reuse these valuable resources as part of their SOA strategy.

NEW SOLUTION: INTERMEDIATION

Xcalia helps these CIOs and their technical teams meet their business challenges with dynamic integration software that makes it easier for them create composite applications, optimize their IT investments, and reduce operational costs all at once. Intermediation enables the unprecedented ability to decide at runtime the way applications access data and service resources, greatly improve their control over how they are deployed and maintained.

With Intermediation, business application are completely independent of the IT infrastructure so that data can be used as-is or migrated into usable formats more quickly and easily than any other alternative. The Xcalia Intermediation Core™ (XIC) provides a layer between the business application and the data or service resources that will create infrastructure independence. It enables companies to manage business access to data cost-effectively across all information resources including mainframes, custom legacy applications, packaged applications, databases, and web services with the ability to transition from one database or service to another as needed without impacting the client application whatsoever.

Services are invoked on the fly, taking into consideration optimal transactional cost scenarios. And, since database and service integration is configured when using XIC, not manually coded, companies are able to deliver the right solutions to their customers faster with fewer resources. The result is higher customer satisfaction and increased revenues without additional cost. Xcalia is ideal for high-performance transactional applications that need to reuse valuable legacy and mainframe resources with maximum interoperability in any environment Java, .NET, or otherwise.

XIC can be deployed as a library or standalone solution that integrates easily with existing commercial application servers and other infrastructure components. For those customers who want more a more comprehensive application environment, the Xcalia Intermediation Platform™ (XIP) features XIC plus a collection of professionally supported open source components to reduce the cost and complexity of deploying applications by eliminating the need to implement additional servers, middleware or databases.

FEATURES

Development

- Comprehensive mapping of Java and .NET objects to any data source, whether database - or service-oriented, with flexible support of all object-oriented modeling and programming concepts such as inheritance, collections, interfaces, etc.
- Metadata for service integration used at runtime for dynamic composition of services
- Service Entity Model defines the Virtual Data model used by services.
- Service Method Model describes how services manipulate the Service Entity Model
- Automated support for the persistent object life cycle and object identifiers
- Transparent navigation between business objects in pure Java or .NET
- Transparent manipulation of business objects in pure Java or .NET
- Object-oriented query language
- Tools for database schema generation and evolution
- Business-oriented features: user security management, logical deletion, and last update notification

- Compliance with all persistence related standards (JDO2, EJB3/JPA, SDO), reducing the need for training

- Data and service mappers provide multiple open APIs

Platform

- Includes: ObjectWeb Jonas, Joram, JOTM, Apache Tomcat, JOTM, Axis, Derby
- JMX Administration for monitoring and tuning
- Deployment and monitoring
- Trace and log Integration with application servers (JCA or/and JTA)
- Rules engine dynamically computes database and service execution plans at runtime based on service metadata
- Incremental and reversible migration of applications to an SOA

Performance

- Ability to redirect application to higher performing services through custom cost-based
- Optimized data access, relying on mechanisms such as eager fetching, object graph loading, client caching, symbolic collections, use of cursors for web paging, etc.
- JMX Administration, enabling monitoring and dynamic tuning of the mapping layer

- Efficient SQL generation
- Distributed transaction support through XA and JTA

Supported Runtime Environments:

- Java: JDKs 1.3, 1.4 & 5.0
- Microsoft: .NET 1.0, 2.0 & 3.0

Supported Types of Services As Information Sources

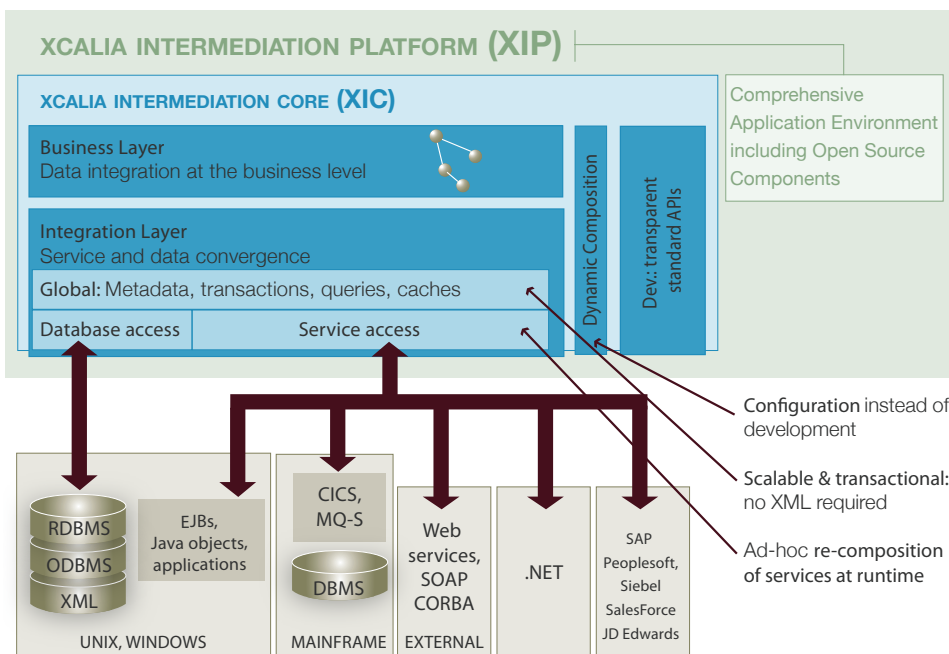
- Web Services: SOAP over HTTP or JMS
- Legacy message-oriented applications, using WebSphere MQ (formerly MQ Series), Tibco, etc.
- Legacy and mainframe transactional applications, using CICS, IMS, Tuxedo, TX-Series etc., through JCA (v4.1)
- Remote components (EJB or CORBA)
- Local and remote Java objects

Supported Databases

- All RDBMSs, commercial and open source
- Mainframes
- Object Databases
- XML files and streams

Supported application servers

- All major commercial and open source application servers



WHY USE XCALIA INTERMEDIATION PLATFORM?

Maximize your resources by automatically selecting the business resource based on configurable selection rules that determine the most cost effective path.

In addition to developing new applications more simply and rapidly, preserve your legacy and mainframe investments by integrating them with other services to create transactional composite applications.

Reduce investment risk by using a standards-based solution that runs seamlessly in heterogeneous environments that include both JEE and .NET.

Reduce development costs: dynamic composition allows for easy configuration of services. Instead of manually coding back-end plumbing, focus your developers on higher-value business logic.

Improve ROI by maximizing performance and scalability even in the most demanding environments.