

SOA Data Services

DATA SERVICES ARE KEY TO SERVICE ORIENTED ARCHITECTURE SUCCESS

Service-oriented development approaches have seen increasing levels of adoption in recent years in order to help enterprises gain IT agility and reuse. Early use cases were transaction-centric, typically driven by business process optimization objectives with ESBs the enabling middleware.

Business intelligence applications and wider enterprise-scale data virtualization requirements are adding to demand. Meeting these information-centric needs requires data services development and runtime middleware that supports more detailed understanding of data structures, more powerful federated query mechanisms, and interoperability with transaction-centric services and middleware.

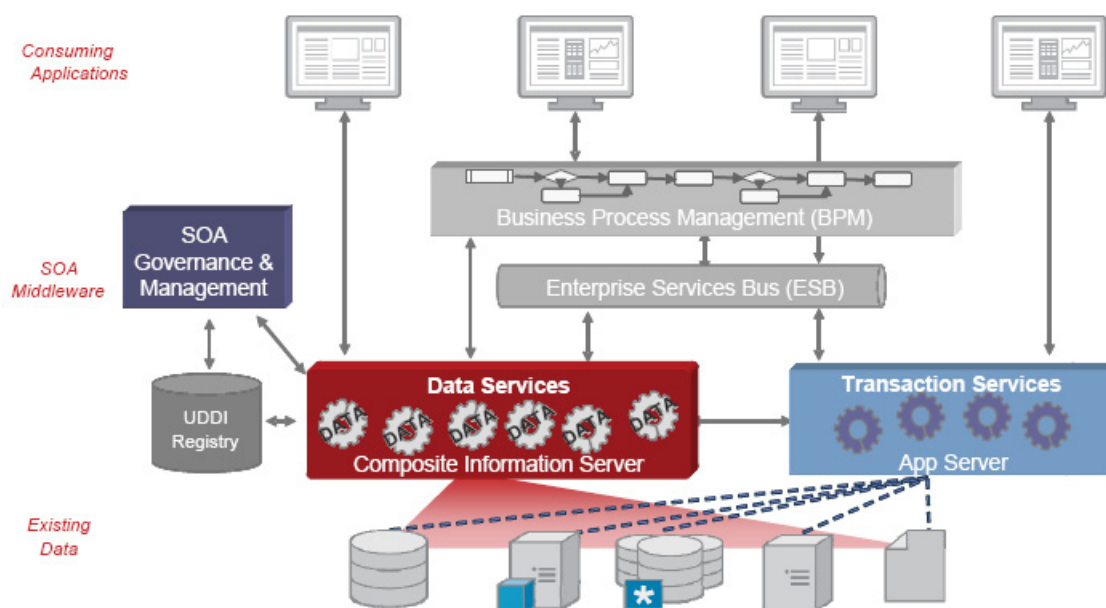
THE COMPOSITE SOLUTION

Composite provides a complete set of development and runtime tools to build and deploy SOA data services that meet today's information-centric needs. Benefits include:

Gain greater return on existing IT assets – Composite data services surface data from myriad source systems unobtrusively, for easy consumption via SOAP, JMS, and REST standards. Repurpose “non-SOA” assets in just a few clicks.

Accelerate project deployments – Composite provides a rich, high-productivity development environment conducive for both contract-first and design-by-example development.

Reduce costs via greater reusability and interoperability – Composite data services are modular, forming reusable building blocks for multiple applications. Composite complies with SOA standards and interoperates with other SOA components.



Composite Services within a wider Service Oriented Architecture

COMPOSITE DATA SERVICES ADVANTAGES

Promote Information Sharing – The uniform approach provided via Composite data services makes it easier to share data within and across consuming departments and applications. Industry XML data interchange standards are easily supported.

Integrate “Stovepipe” Systems – Composite data services query across existing source systems, combining and surfacing data in forms easier for solution developers to understand and use.

Deliver Up-to-the-minute Information – Rather than move all potential data that might possibly be queried into a second data source (like a data mart), Composite data services query only the minimum data required by the consuming application, and they do this when the data is actually needed.

Query Data with High Performance – Composite data services leverage high performance query techniques, push down optimization, caching, 64 bit architecture, and more to optimize consuming applications’ performance.

High Productivity Development, Reliable Operations – With no programming required, developers, data administrators, and business analysts can build data services or relational views in just minutes and larger scale virtual data marts or stores in just days. Composite Discovery accelerates data discovery and modeling steps. Composite Active Cluster and Monitor ensure high availability and maximum scalability.

Contract-first and Design-by-Example Development – Build services top down or bottom up using pre-existing WSDLs, schemas and standards. Composite automates data discovery, access, abstraction, federation and delivery activities.

Leverage Packaged Application and Multidimensional Data – Composite unlocks applications data from SAP, Siebel, Oracle E-Business Suite and Salesforce.com as well as multidimensional data from SAP BW and Oracle Essbase, simplifying and accelerating access to this critical data.

Compatible with Established Security Processes – Composite supports both external system (LDAP and Active Directory) as well as token-based (SSO, Kerberos, NTLM) authentication to enforce user-based data security rules already established in source and consuming systems. SSL and WS-Security as well as a range of encryption options further secure critical data.

Expand SOA Adoption Enterprisewide – To rapidly grow beyond initial use cases, Composite data services can be combined to form an abstracted data services layer that supports enterprise-level SOA strategies and objectives. Further, Composite complements other SOA tools such as Enterprise Services Buses (ESBs), Registries, and Application Servers.

Fit within Existing IT Environment – Composite utilizes key industry standards such as ODBC, JDBC, ADO.NET, SOAP, JMS, SQL, XQUERY, and JAVA. This enables Composite to easily leverage existing data, hardware, and software assets and to run in any environment without restriction.