SAP® BusinessObjects™ DATA INTEGRATOR
DELIVERING TRUSTED DATA FOR YOUR ENTERPRISE

As data sources and volumes proliferate, organizations that manage and harness their data hold a strategic, competitive advantage. SAP® BusinessObjects™ Data Integrator software allows your organization to profile, extract, transform, and deliver any type of data anywhere, at any frequency.

To gain control over your data, you need to build an agile and trusted data foundation that can rapidly respond to the information demands of operational or analytical processes and systems. Such a foundation requires data integration capabilities that can help you deliver trusted information across the enterprise.

Rated a leader in the Gartner "Magic Quadrant" for data integration, SAP® BusinessObjects™ Data Integrator software is based on SAP BusinessObjects Data Services software, the first single offering for data integration and data quality management. SAP BusinessObjects Data Integrator helps you deliver timely, integrated, and trusted data across the enterprise. With SAP BusinessObjects Data Integrator, you can:
- Provide trusted information
- Deploy with faster time to market
- Deliver enterprise-class data integration performance

Provide Trusted Information

Compliance regulations require organizations to deliver timely, accurate, and auditable information. To meet these challenges, organizations need a single view of their enterprise metadata, improved data quality, visibility into the impact of source changes, and traceability of data back to the source systems.

SAP BusinessObjects Data Integrator ensures the quality of your enterprise data with advanced data profiling, which allows you to understand the content, structure, quality, and relationships between tables in your source data. The data validation feature helps you build a firewall between your source and target systems, so you can filter out unwanted data based on your business rules. Throughout the extraction, transformation, and load (ETL) process, SAP BusinessObjects Data Integrator audits data to verify the integrity of the data; additional data quality functionality to cleanse data of any operational domain (such as customer, product, or service) is accessible with SAP BusinessObjects Data Services.

From an IT perspective, SAP BusinessObjects Data Integrator provides the ability to see how a change in source data can affect downstream processes and systems through metadata analysis. The software is unique in its ability to offer out of the box integration with metadata from the SAP BusinessObjects software business intelligence (BI) layer. This metadata integration provides end-to-end impact analysis that allows you to see the effect of changes in the source systems down to the BI reports. As a result, you can more easily manage change in your entire ETL and BI environment.

From a business perspective, a huge benefit of metadata integration is data lineage, which allows information consumers to view the context of data in their reports. The software allows users to see when data was updated, how it was computed, and where it came from – all the way back to the original transactional source. This visibility is critical helping your users gain better trust in their information and meet compliance requirements.

Deploy with Faster Time to Market

An independent analyst study[1] on ETL tools rates SAP BusinessObjects Data Integrator as number one in ease of use. With SAP BusinessObjects Data Integrator, you can significantly simplify and reduce your IT efforts by providing an intuitive development environment to handle all tasks associated with building an ETL process. SAP also offers prebuilt

data integration solutions for source-specific enterprise applications to accelerate your BI deployment with SAP BusinessObjects Rapid Marts®.

SAP BusinessObjects Composer software provides an intuitive Web-based tool for ETL mapping, helping you more easily manage the design phase of an ETL job. Use SAP BusinessObjects Composer to collaborate with a team to gather business requirements; profile your source data; build ETL mappings; validate the accuracy of your design; generate data integration jobs; and document your project.

SAP BusinessObjects Data Integrator helps to accelerate and simplify development efforts by building and managing data integration jobs within a single graphical environment. The drag-and-drop user interface allows you to quickly build jobs that profile, validate, audit,

You can significantly simplify and reduce your IT efforts with a single intuitive development environment that handles all tasks associated with building an ETL or data quality process.

cleanse, transform, and move data. Advanced debugging features let you analyze problematic data through the entire ETL process. The smart documentation functionality saves you from having to manually document your work.

The integration software lets you perform a complete range of data transformations. Choose from a library of powerful, extensible, and reusable transforms for operations, such as unstructured data (via SAP BusinessObjects Text Analysis software); hierarchy flattening for XML files; XML pipelining; pivot and reverse-pivot of rows and columns; slowly changing dimensions; change data capture; data validation; and data cleansing (via SAP BusinessObjects Data Services software).

SAP BusinessObjects Data Integrator offers team-based development functionality. Users can check work in and out of a central metadata repository securely. Your users can share and version their work to accelerate development, and you can easily compare differences between objects.
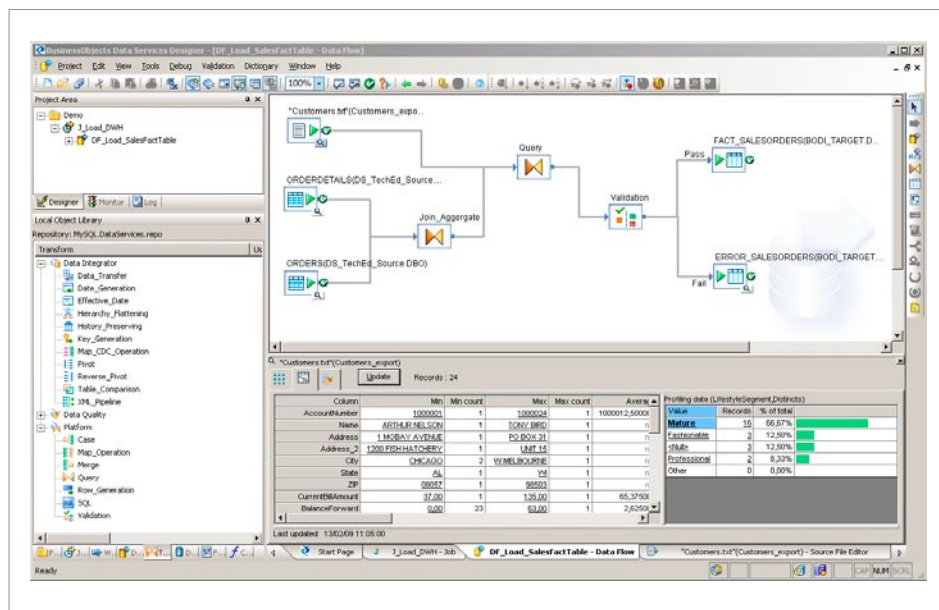

Figure 1: Ensure Only Trusted Information Is Loaded into Your Target Environment

1 van Beek, Daan, and Manley, Norman. "The ETL product survey 2008," Passionned Nederland B.V., January 2008 (revised May 2008).

You can port jobs to different database types, versions, and instances – so developers can design an ETL job once and port it to any database environment, further accelerating deployment.

By deeply integrating the ETL process with the BI product used in your data warehousing project, both IT and business users gain measurable benefits such as easy metadata management, simplified and unified administration, improved lifecycle management, and reduced maintenance costs. The integration software enables you to automatically create and update an SAP BusinessObjects semantic layer (that is, an SAP BusinessObjects universe) to accelerate BI deployment and simplify change management.

SAP BusinessObjects Rapid Marts®
SAP BusinessObjects Rapid Marts packages are packaged, powerful, and flexible data integration solutions for delivering prebuilt data marts from enterprise applications, such as SAP software, Oracle, PeopleSoft, and Siebel. Built with SAP BusinessObjects Data Integrator software, SAP BusinessObjects Rapid Marts packages provide domain knowledge with data integration best practices to deliver an application-specific data mart, a semantic layer (SAP BusinessObjects universe), and BI reports. SAP BusinessObjects Rapid Marts packages are available in key domain areas: financials, human resources, order management, and purchasing. SAP BusinessObjects Rapid Marts packages help you gain rapid insight, accelerate your BI deployment, and lower development costs.

Deliver Enterprise-Class Data Integration Performance

As volumes of data rise and accepted delays drop, you need to be able to rely on a high-performance, scalable data integration solution. SAP BusinessObjects Data Integrator delivers extreme ETL scalability with support for parallel processing, grid computing, real-time data movement, and broad source and target support. This open and services-based architecture allows you to integrate with third-party products using industry standard protocols such as CWM, XML, HTTP/HTTPS, JMS, SNMP, and Web services.

The software's performance architecture meets scalability requirements for ever-increasing data volumes and shrinking data load windows. It provides intelligent threading, which enables parallelization in several ways. Within a single data transformation, it can dynamically launch multiple threads. In a single job, multiple transformations and job steps can run in parallel. Multiple jobs can run simultaneously through multiple instances of the SAP BusinessObjects Data Integrator job engine. Through a grid computing implementation, multiple job servers can run concurrently to balance workload and maintain high system availability.

SAP BusinessObjects Data Integrator maximizes data integration performance by intelligently pushing the processing down to the database or mainframe platforms. For example, the software will leverage your database server to aggregate functions at the source level without moving the data to the SAP

BusinessObjects Data Integrator server. With the ability to distribute processing to your source systems, the software minimizes unnecessary data movement across your network to optimize data integration performance.

SAP BusinessObjects Data Integrator can help you connect to your data (structured or unstructured) whether it resides in a relational database, mainframe system, or enterprise application. Through SAP BusinessObjects Data Integrator, you can take a text string and extract it to a structured format via SAP BusinessObjects Text Analysis. In addition, no other product provides deeper metadata-based connectivity to packaged applications from SAP, Siebel, PeopleSoft, J.E. Edwards, and Oracle applications. Native connectivity is available for virtually all database types or through ODBC. You can access legacy mainframe applications. SAP BusinessObjects Data Integrator also supports flat files, XML, and Web services. If your application is proprietary, you can connect to it using a Java software development kit (SDK).

The data integration software also offers comprehensive support for Web services and is Web Services Interoperability (WS-I) compliant. You can publish or call a batch or real-time data integration job via Web services. The software also calls Web service-enabled applications to access virtually any data. In addition, you can use Web services to get job status (for example, running, success, or error); access logging information (for example, trace, monitor, and error); and start or stop a real-time service.

QUICK FACTS

Summary

SAP BusinessObjects Data Integrator software helps organizations deliver timely, accurate, and trusted information. By making it easier to profile, extract, transform, and deliver data, SAP provides your organization with trusted and integrated data to support the information needs of your enterprise.

Business Challenges

- Overcome data integration challenges, such as information silos, data inconsistencies, and hidden assets
- Tap into unstructured information sources, such as email, Web, reports, surveys, contracts, and a wide range of internal and external content
- Deliver trusted information that supports operational and analytical initiatives, such as customer relationship management, enterprise resource planning, business intelligence, data warehousing, data migration, and master data management

Key Features

- **Comprehensive data integration functionality** – Access and integrate data from any source, and design an efficient, reliable data integration process
- **Extraction, transformation, and load (ETL) functionality** – Move and integrate data in real time and at any interval
- **Flexible information management** – Manage change and metadata from disparate systems
- **Single solution for ETL and data quality** – Breakthrough ease of use allows rapid development of data integration and quality projects

Business Benefits

- **Insight,** with a single, trusted view of your data
- **Efficiency,** with accelerated movement of data and faster time to market
- **Enhanced productivity,** with single user interface developing data integration and data quality processes
- **Savings,** with lower total deployment costs
- **Trending and analysis,** with timely access to information

For More Information

To learn more about SAP BusinessObjects Data Integrator and information management solutions from SAP, visit our Web site at www.sap.com/sapbusinessobjects.

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