

# BUSINESS OBJECTS DATA QUALITY XI 3.0

What's New

## New Features in BusinessObjects Data Quality XI 3.0

- Application layer connectivity
- Auditing and audit rules
- Auto log cleanup
- Autodoc
- Before/after data view
- Bulk loading support
- Data lineage Data Services Script (Python alternative)
- Database configurations
- Debugging
- Exception handling
- Grid computing/distributed dataflow execution
- Impact analysis
- Improved data type support
- Improved promotion support
- JMS Adapter
- Job recovery
- Multi-user improvements
- New database support
- Object Annotations
- Repository support
- Rich set of built-in functions
- Scheduling
- SNMP support
- Version control
- Workflow design

## WHAT'S NEW IN BUSINESSOBJECTS DATA QUALITY XI 3.0

BusinessObjects™ Data Quality XI 3.0 is the newest and most comprehensive Data Quality product released from Business Objects, an SAP company. A foundation of the BusinessObjects Data Services platform, it allows you to quickly and easily design and deploy data quality processes. Your organization can easily standardize, cleanse, and consolidate data anywhere – to ensure that your end-users are always working with information that's readily available, accurate, and trusted.

With the release of Data Quality XI 3.0, we've made numerous changes and improvements, including improving European address cleansing, extending name, title, and firm processing for more countries, and simplifying the matching and consolidation process. What follows is a comprehensive list of the new features in BusinessObjects Data Quality XI 3.0 that improve design-time, enhance system administration and reporting, and provide new support and connectivity options.

### NEW FEATURES

#### Design-Time Features

**Address Cleansing for New Countries.** We offer 10 newly supported countries, which include Bulgaria, Estonia, Greece, Hungary, Latvia, Lithuania, Malaysia, Slovakia, Turkey, and Russia. All engines support the special diacritical characters in their specific languages

**Auditing and Audit Rules.** Collect statistics about source and target columns (sum, count, max) and set audit rules – for example,  $\text{sum}(\text{source\_revenue}) = \text{sum}(\text{target\_revenue})$

**Before/After Data View.** View the data before and (then) after each transformation within a dataflow

**Built-In Best Record Strategies.** No scripting required for newest/oldest record, longest field value, highest priority record, non-blank field, and candidate selection

**Data Quality Transforms.** New query, case, merge, and SQL transforms are available as part of the new platform. Many existing functions provided by data quality transformations are being replaced with new transformations

**Debugging.** Examine a dataflow step by step to debug the process. Supports breakpoints and single stepping through the process. Debugging of real-time jobs can be done within the data services designer

**Exception Handling.** Use try/catch blocks to catch errors and take appropriate actions (for example, send an email)

**Global Variables.** Runtime variables can change during execution and are valuable when creating conditionals within scripts and workflows

**Improved Data Type Support.** Define more specific data types for easier data manipulation. Data quality transforms typically work with strings only, but now your users can define more specific data types and manipulate them easier through scripting and built-in functions

**Improved Promotion Support.** Helps your users promote objects from one environment to another. Support for import/export of objects ties in with system configurations, described below

**Match Editor User Interface.** Easily manage configuration of simple or complex matching scenarios

**Multiuser Improvements.** Secure a central repository to control access to objects as well as lock objects for editing

**New Global Parsing Options.** Personal name, title, and firm parsing for Italian and the Netherlands

**Profiling Support.** Offers profiling support for a source within the dataflow designer that can perform column data assessments, including distinct count, null count, min and max values, and timestamp

**Rich Set of Built-In Functions.** Built-in functions in the data services scripting language include string functions, math functions, date functions, lookups, conversion functions, `ifthenelse()`, and `decode()`

**System Configurations.** Define configuration information for different environments (dev, test, production) and apply them automatically when moving from one to the other

**Version Control.** Versioning of repository objects, ability to check objects in and out, and perform a difference check on objects across versions

**Workflow Design.** Tie together a chain of multiple data flows to abstract complexity, including conditional (If–Then–Else) workflows and while-loop workflows

**Write Your Own Reusable Custom Functions.** Using data services scripting language, create new reusable functions (alternative for Python scripts)

## Enhanced Administration

**Control Exposure of Services.** Your administrators have control over which real-time jobs get exposed to the “outside world” within IT

**Job Recovery.** Support restart of data processing after a failure

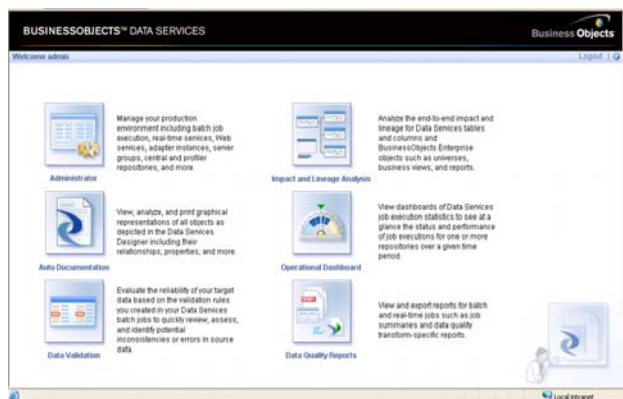


Figure 1: Management Console

**Management Console.** The management console (Figure 1) provides many new capabilities, including:

- Repository management – Ability to register, authenticate, and authorize all repositories for central management
- Server management – Add or maintain server groups for load distribution, register access servers for management of real-time jobs, and add/configure the connection to BusinessObjects Enterprise Central Management Server
- Job management – Monitor, execute, terminate, and schedule jobs, and export execution commands
- Web services management – Fine-grained control over which batch and real-time jobs are exposed as discrete Web services operations

- Profiling management – Source/target profiling within the data services platform
- Adapter management – Configure adapter instances per job server, add/remove adapter operation, and monitor adapter instance status
- Job scheduling – Ability for users to use a built-in scheduling system, BusinessObjects Enterprise Scheduler, or a third-party scheduler
- Real-time service management – Control exposure of real-time jobs as real-time services for external use, manage service providers for each real-time service, and monitor real-time API connections and processing statistics
- Source/Target connection management – Ability to import source/target metadata for faster user interface response times and easier management

**Metadata Exchange Support.** Allows your users to import and export metadata, supporting the Common Warehouse Model (CWM) 1.0/1.1, CA ERwin 4.x XML, and Meta Integration Model Bridge (MIMB; if installed, export only)

**Repository Manager.** The repository manager is a Windows-based thick client user interface and Unix/Linux command-line utility. The utility creates or upgrades repositories outside of the installer, retrieves repository version information, and manages all repository types, including local, central, profiling, and reference data

**Secure Web Services.** Authentication and authorization support for Web services operations to control which users and applications can execute Web services

**Server Manager.** The server manager is also a Windows-based thick client user interface and Unix/Linux utility. It configures job and access servers, runtime resource usage, and enables simple network management protocol (SNMP) for job servers. SNMP versions 1, 2, and 3 are supported. In addition, it configures simple mail transfer protocol (SMTP) and restart job and access servers

**Scheduling.** Schedule jobs either via built-in (OS) scheduler or by using an existing BusinessObjects Enterprise scheduler. You can also use an external scheduler of your choice to schedule jobs via a command-line utility or Web services

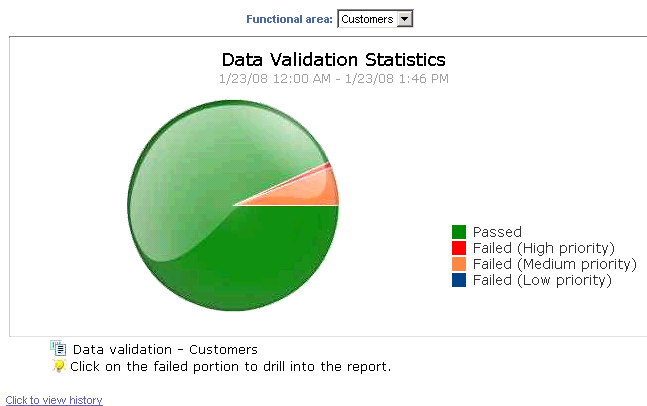


Figure 2: Data Validation Dashboard

validation rules being applied via the validation transform. It organizes validation rules across jobs into functional areas, defines high-level business rules around multiple data validation rules, and provides drill-down statistics (as shown in Figure 2)

**Impact Analysis.** Ability to know what target systems, universes, or reports will be affected by modifying a given data element within a data flow

## Enhanced Reporting

**Auto-Doc.** Allows your users to view, analyze, and print jobs

**Data Lineage.** Provides information about the flow of data from source systems to targets and all the way through to a report objects in the business intelligence (BI) layer

**Data Validation Reports.** The validation dashboard provides your business users with a view into the results of

## New Support and Connectivity Options

**Bulk-Loading Support.** Faster loading for improved performance using RDBMS native bulk-loading capabilities. Bulk-loading support is being added for Oracle, SQL Server, DB2 Universal Database, Netezza, Teradata, Informix, and Sybase

**Custom Adapter.** Provides a Java-based interface that allows your users to create custom source/targets and browse/import custom-defined metadata for use in batch jobs

**Datastore Portability.** Allows porting of datastore from one RDBMS to another

**Define Custom Web Service Schemas.** You can use your own XML schemas that you've developed as corporate standard as your Web service in/out messages

**File Source Support.** Support for Excel 97 and up, COBOL Copybooks, and XML (files)

**Grid Computing/Distributed Dataflow Execution.** Ability to divide data flows into separate processes and run those on the same machine or separate machines. Job servers can be created on multiple machines and registered through administration and processing distributed down to the transform level

**Improved Open Database Connectivity (ODBC) Support.** Now supports Netezza

**Java Message Service (JMS) Adapter.** Gives your users the ability to integrate into JMS-based messaging applications such as WebSphere MQ/Message Broker, Tibco, WebMethods, and custom Java Applications

**New Repository Support.** Now supports Sybase and MySQL

**New Source/Target Support.** New sources and targets include Teradata, Sybase, Informix, DB2 for iSeries and z/OS, Red Brick, SQL Anywhere, SQL Server from Unix/Linux, and MySQL 5

**Packaged Adapters.** Offer adapters for HTTP, salesforce.com, and JMS

**Secure Socket Layer (SSL) Support.** Allows encryption of data over the wire

**SNMP Support.** Allows your customers to integrate into application monitoring and management tools like HP OpenView, CA Unicenter, IBM Tivoli, and so on

**Support for Application-Layer APIs.** Includes APIs for SAP® ERP, BAPI, ABAP, IDOC, JD Edwards OneWorld/World, Oracle Applications, PeopleSoft, Salesforce.com, and Siebel

**Web Services Adapter.** A data store adapter that allows us to import a web services description language (WSDL) document and very easily call out to external Web services within a dataflow

**Web Services Interoperability (WS-I) Compliant.** Ensures interoperability with other Web services-based applications

## THE MOST ADVANCED DATA QUALITY APPROACH

With BusinessObjects Data Quality XI 3.0 from Business Objects, your business users now have more power than ever to manage data quality standards across deployments – in a way that's consistent, predictable, and easy to use. For more information, visit our Web site at [www.businessobjects.com](http://www.businessobjects.com).

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