



Data Services Release Summary

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Introduction



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chapter

Business Objects information resources

Customer support, consulting, and training

A global network of Business technology experts provides customer support, education, and consulting to ensure maximum business intelligence benefit to your business.

Useful addresses at a glance

| Address | Content |
|--|---|
| Product information http://www.businessobjects.com | Information about the full range of Business Objects products. |
| Product documentation http://www.businessobjects.com/support | Business Objects product documentation, including the Business Objects Documentation Roadmap. |
| Documentation mailbox documentation@businessobjects.com | Send us feedback or questions about your Business Objects documentation. |
| Online Customer Support http://www.businessobjects.com/support | Information on Customer Support programs, as well as links to technical articles, downloads, and online forums. |
| Online Developer Community http://diamond.businessobjects.com/ | An online resource for sharing and learning about Data Services with your developer colleagues. |
| Consulting services http://www.businessobjects.com/services/consulting/ | Information about how Business Objects can help maximize your business intelligence investment. |
| Education services http://www.businessobjects.com/services/training | Information on Business Objects training options and modules. |

Online Customer Support

The Business Objects Customer Support web site contains information about Customer Support programs and services. It also has links to a wide range of technical information including Knowledge Base articles, downloads, and support forums. <http://www.businessobjects.com/support>

Looking for training options?

From traditional classroom learning to targeted e-learning seminars, Business Objects can offer a training package to suit your learning needs and preferred learning style. Find more information on the Business Objects Education web site: <http://www.businessobjects.com/services/training>

Send us your feedback

Do you have a suggestion on how we can improve our documentation? Is there something that you particularly like or have found useful? Drop us a line, and we will do our best to ensure that your suggestion is considered for the next release of our documentation: documentation@businessobjects.com.

Note: If your issue concerns a Business Objects product and not the documentation, please contact our Customer Support experts.

Introduction to Data Services XI 3.0

Welcome to BusinessObjects(TM) Data Services XI 3.0 version 12.0.0. This document highlights the new features available with this release. This release combines two powerful products, Data Integrator and Data Quality, into a single, easy to use interface called Data Services.

For important information about this product release including installation notes, resolved issues, and known issues, see the *Data Services Release Notes*.

Business Objects offers other products that complement Data Services and provide additional Enterprise Information Management solutions. These include:

- BusinessObjects Composer
- BusinessObjects Metadata Management
- BusinessObjects Data Federator
- BusinessObjects Rapid Marts

- BusinessObjects Text Analysis
- BusinessObjects Data Insight
- BusinessObjects Data Quality for Enterprise Applications

See the Business Objects website or contact a Business Objects sales representative for more information.

Features in Data Services 12.0.0

Data Services combines industry-leading data quality and integration into one platform. With Data Services, your organization can transform and improve data anywhere. You can have a single environment for development, runtime, management, security and data connectivity.

Use any type of data, including structured or unstructured data from databases or flat files to process and cleanse and remove duplicate entries. You can create and deliver projects more quickly with a single user interface and performance improvement with parallelization and grid computing.

- Instant traceability with impact analysis and data lineage capabilities that include the data quality process
- Data validation with dashboards and process auditing
- Workflow design with exception handling (Try/Catch) and Recovery features
- Multi-user support (check-in/check-out) and versioning via a central repository
- Administration tool with scheduling capabilities and monitoring/dashboards
- Transform management for defining best practices
- Comprehensive administration and reporting tools
- Scalable scripting language with a rich set of built-in functions
- Interoperability and flexibility with Web services-based applications
- High performance parallel transformations and grid computing
- Debugging and built-in profiling and viewing data
- Broad source and target support
 - applications (for example, SAP)
 - databases with bulk loading and CDC changes data capture
 - files: comma delimited, fixed width, COBOL, XML, Excel

For details about all the features in Data Services, see the *BusinessObjects Data Services XI 3.0 Reference Guide*.

Related Topics

- [Enterprise agility \(ease of use\)](#) on page 9
- [Trusted information](#) on page 11
- [Operational excellence](#) on page 12
- [Enterprise class](#) on page 13

Data Services XI 3.0 features

Enterprise agility (ease of use)

Substitution parameters

Substitution parameters allow you to easily change environment settings for a Data Services job: from file locations to option values in transforms, all can easily be changed at runtime via a substitution parameter. Additionally, all substitution parameters are linked to a system configuration so the values can be changed once to reflect another environment (like test or production) by selecting another system configuration.

Search_Replace function

The new search_replace function extends the search and replace functionality available in BusinessObjects Data Quality XI.

- Provides a new graphical user interface
- Searches in multiple columns
- Replaces full string, word, or substring
- Replaces values defined in a table or file, internal list, or custom SQL
- Selectable case sensitivity
- Optionally provides a default replacement value for matches not found

Double_Metaphone and Soundex functions

The Phonetic Key transform from BusinessObjects Data Quality XI is replaced with a Query transform using one of two new functions: double_metaphone and soundex. Each function provides an alternative algorithm for phonetic matching.

Global unnest for nested structures

Data Services now provides the option to unnest a nested schema and all its subschemas to a flat structure with one mouse click including resolution of name collisions. This makes it easier to flatten nested structures in XML files.

Enhanced Python editor

The new Python Expression editor, based on the Smart Editor used throughout Data Services, will help you create your Python expression. The editor provides basic programming features such as keyword highlighting, auto-completion, auto-indentation, and code tool tips. As you type, the Python Expression editor highlights the correct Python syntax. Some of the new features include:

- Importing and saving Python script to and from a file
- Printing
- Applying undo and redo actions
- Adding input and output fields without leaving the editor
- Accessing additional environment variables

The Python Expression editor with upgraded support to Python version 2.5.1, is available for the User-Defined transform and for the Best Record feature within the Match transform. The Python Expression editor is only available for the Data Quality and Data Services packages.

Transform configurations

For all of the Data Quality transforms in Data Services, we have created transform configurations. Similar to the sample transforms installed with Data Quality XI, a transform configuration is a transform with pre-configured best practice input fields, best practice output fields, and options that can be used in multiple data flows. These are useful if you repeatedly use a transform with specific options and input and output fields.

You can also create your own transform configuration, either by replicating an existing transform configuration or creating a new one.

Related Topics

- [Designer Guide: Variables and Parameters](#)
- [Reference Guide: Descriptions of built-in functions](#)
- [Reference Guide: Python](#)

- [Reference Guide: Transforms](#)

Trusted information

Match transform

Data Services now provides you with a user interface (Match editor) that allows you to edit all of your matching operations (including break groups, candidate selection, best record, unique ID, group statistics, and so on) at once. You no longer need to set up multiple match-related transforms to create your match data flow.

Global Address Cleanse engine

The Global Address Cleanse transform introduces the Europe, Middle East and Africa (EMEA) engine which supports more countries and has improved data coverage. The EMEA engine, along with the new Global Address engine, replaces the Multi-Country plugin from Data Quality. Both engines enrich Global Address Cleansing in Data Services by providing improved assignment technology and new country identification codes. Additionally, Global Address Cleanse in Data Services has updated Australia and Canada certifications, and has also made updates to the Japan engine.

Country ID

The country ID transform has gone through a significant upgrade with this release. Country ID is now based on all new logic and can support country input based on ISO 2 character, ISO 3 character and ISO 3 digit codes. However, the most significant enhancement to country identification is the ability for the technology to identify and assign a country when one is not present on input. We have also improved our data and dictionaries to support the country assignment process. Business Objects has added region data to the dictionaries for countries that do not provide region data in their postal directories. The region data further enhances the ability to assign a country when one is not present on input.

Universal Data Cleanse and Global Parsing options

The Global Parsing Options installer now provides a familiar and more robust installation experience.

- Incorporates standard Business Objects installation technology
- Supports the Data Services Repository Manager
- Adds new Global Parsing Options reference data for Italy and the Netherlands
- Includes a refined user interface for Universal Data Cleanse features

Data Quality reports

Many Data Quality transforms generate information about the data being processed. The Data Services Management Console now includes a new application for viewing, saving, and printing reports for jobs that use the Global Address Cleanse, USA Regulatory Address Cleanse, and Match transforms. Report types include job summaries, transform-specific reports, and transform group reports.

Related Topics

- [Reference Guide: Transforms: Match](#)
- [Reference Guide: Transforms: Global Address Cleanse](#)
- [Reference Guide: Transforms: Country ID](#)
- [Installation Guide: Global Parsing Options](#)
- [Management Console Metadata Reports: Data Validation Dashboard Reports](#)

Operational excellence

Improved Data Services installation

The installer enables you to have a fully functional Data Services environment after installation, including the setup of the repository and application server. The BusinessObjects Data Services installer now provides a familiar and more robust installation experience.

- Incorporates the standard Business Objects installation technology and keycodes
- Features command-line and scripted installation modes
- Includes MySQL database and Tomcat application server packages
- Includes a new Data Services License Manager application

New Management Console support

The Data Services Management Console now supports, in addition to Tomcat, two new Application servers: WebSphere and WebLogic.

Migrating from Data Quality to Data Services

Use the migration utility to migrate the Data Quality 11.5 and 11.7 repositories to Data Services 12.0. The utility migrates your Data Quality projects (and other objects, such as connections), so that you can successfully run them as Data Services jobs with minimal effort. If you have imported Data Quality transforms in your Data Integrator 11.7 jobs, the utility also migrates the Data Quality integrated batch projects. For more information see the Data Quality to Data Services Migration Guide.

Support for additional codepages

Data Services now supports UTF-16 codepages for reading and writing from flat files.

Related Topics

- [Installation Guide: Standard Installation of Data Services](#)
- [Installation Guide: Silent Installation of Data Services](#)
- [Installation Guide: Using the License Manager](#)
- [Installation Guide: To configure an existing Web application server](#)
- [Data Quality to Data Services Migration Guide](#)

Enterprise class

Web Services enhancements

New WS-I compliant Web Services provide operations that allow for retrieving logging information, obtaining job status, specifying substitution variables for batch jobs, stopping a batch job, getting run IDs for a given batch job, and starting/stopping a real-time service.

Real-time API

Data Services provides a set of Java and C++ methods to allow integrators to closely integrate their products with Data Services with direct API calls to the real-time services exposed via Data Services.

Improved online blueprints and other content objects

Previously, the Data Quality blueprints were delivered and installed with the product. Now, you can download them from the Business Objects Diamond Developer website, where they can be updated more frequently. You can also download only the blueprints and other content that you think you will find useful. The Diamond Developer site is your source for current information focused on the end users of our products. Business Objects will continually post new blueprints, transform configurations, custom functions, best practices, whitepapers, and other content. Refer to this site frequently for updated content and use the forums to provide us with any questions or requests you may have.

We've also provided the ability for you to upload and share any content you've developed with the rest of the Data Services development community. You can access the Diamond Technical Community at <http://diamond.businessobjects.com/EIM/DataServices>. After you create an account, you can access the Data Services blueprints directly at <http://diamond.businessobjects.com/blueprints>.

Large Object support

Data Services now supports the binary large object (blob) data type, significantly extends support for the long data type (also known as character large object or CLOB), and adds support for many additional large object data types across all databases.

Enhancements to long data type support include optimized storage in the Data Services data flow engine, elimination of the 10,000-character maximum long data size for Microsoft SQL Server, DB2, Informix, and so on, and improved performance involving long data.

Related Topics

- [Integrator's Guide: Real-time Services API Overview](#)
- [Designer Guide: Real-time jobs](#)
- [Reference Guide: Downloading blueprints and other content objects](#)

- [Reference Guide: Data Type: Import](#)

