



SAP BusinessObjects Data Services Release Summary

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Introduction

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chapter

SAP BusinessObjects information resources

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

Useful addresses at a glance:

Address	Content
Customer Support, Consulting, and Education services http://service.sap.com/	Information about Technical Customer Assurance programs, as well as links to technical articles, downloads, and online forums. Consulting services can provide you with information about how SAP BusinessObjects can help maximize your business intelligence investment. Education services can provide information about training options and modules. From traditional classroom learning to targeted e-learning seminars, SAP BusinessObjects can offer a training package to suit your learning needs and preferred learning style.
SAP BusinessObjects Data Services Community https://www.sdn.sap.com/irj/boc/ds	Get online and timely information about SAP BusinessObjects Data Services, including tips and tricks, additional downloads, samples, and much more. All content is to and from the community, so feel free to join in and contact us if you have a submission.
Forums on SCN (SAP Community Network) https://www.sdn.sap.com/irj/scn/forums	Search the SAP BusinessObjects forums on the SAP Community Network to learn from other SAP BusinessObjects Data Services users and start posting questions or share your knowledge with the community.
Blueprints http://www.sdn.sap.com/irj/boc/blueprints	Blueprints for you to download and modify to fit your needs. Each blueprint contains the necessary SAP BusinessObjects Data Services project, jobs, data flows, file formats, sample data, template tables, and custom functions to run the data flows in your environment with only a few modifications.

Address	Content
Product documentation http://help.sap.com/businessobjects/	SAP BusinessObjects product documentation.
Products Availability Report https://service.sap.com/bosap-support	Get information about supported platforms for SAP BusinessObjects Data Services. In the left panel of the window, navigate to Documentation > Supported Platforms > BusinessObjects XI 3.x. Click the BusinessObjects Data Services link in the main window.

Introduction to SAP BusinessObjects Data Services XI 3.2

Welcome to SAP BusinessObjects Data Services XI 3.2 version 12.2.0. This document highlights the new features available with this release.

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

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

- SAP BusinessObjects Metadata Management
- SAP BusinessObjects Data Federator
- SAP BusinessObjects Rapid Marts
- SAP BusinessObjects Text Analysis
- SAP BusinessObjects Data Insight
- SAP BusinessObjects Data Quality Management for Enterprise Applications

For more information, see the SAP Business Objects website or contact an SAP Business Objects sales representative.

Data Services overview


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

You can 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.

The following is a high-level list of features available through SAP BusinessObjects Data Services:

- Easy-to-use codeless user interface for faster developer productivity.
- Enterprise-class data integration supporting any heterogeneous data environment.
- Powerful data quality capabilities available in a single product.
- Web services support for service-oriented architecture (SOA) environments.
- Accelerated time-to-market with prebuilt solutions for enterprise application sources with SAP BusinessObjects Rapid Marts.
- Superior integration with SAP BusinessObjects business intelligence software.

For details about all the features in SAP BusinessObjects Data Services, see the *SAP BusinessObjects Data Services XI 3.2 Reference Guide*.



SAP BusinessObjects Data
Services XI 3.2 features

2

chapter



Enterprise agility (ease of use)

Export reports

Previously, to view and save Data Quality reports, you had to view each report in the Management Console and export it individually. The new Export Data Quality Reports option lets you generate and export all of the specified job reports at once upon execution. You configure the report server using the new Report Server Configuration node in the Management Console Administrator.

Export certification logs

When you run address cleanse jobs with the appropriate options set, you can generate reports to qualify for mailing discounts with certain countries' postal authorities. In the Management Console, you can generate the certification log files required for those certifications.

In order to export logs, you must disable the security for the Export_DQReport operation in the **Administrator > Web > Services > Web Services Configuration tab**.

New target editor Options tab

The target editor has a newly designed Options tab. The options are arranged in a logical order and the settings are easier to view. Each option from the previous design has been put into groups of options to make them easier to complete.

Fixed-width File Format

This release of SAP BusinessObjects Data Services 12.2 supports both byte and character data alignment for fixed-width file formats. If you want to change your alignment from character to bytes, set the alignment in the new **Data Alignment** option (in File Format, General options group).

- Data Services versions 12.0 and 12.1 support character data alignment only.
- Data Integrator versions 11.7 or older support byte data alignment only.

When you migrate from 12.0 to the new version 12.2, migration changes your existing jobs based on the criteria below:

- If you are migrating your existing fixed-width files from Data Services 12.0 or later, migration sets the new option to Character.
- If you are migrating your existing fixed-width files from Data Services 11.7 or older, migration sets the new option to Byte.

Specify starting number for Row Generation transform

A new option was added to the Row Generator transform named **Row number starts at**. The new option allows you to set the starting row number. Previously the row numbering started at zero (0). You can enter an integer or use a global variable or substitution value. If you leave the option blank, your rows will start numbering at zero (0).

Improved Management Console usability

Several enhancements to the Management Console will help you quickly enable and configure real-time services, sort and filter batch jobs, and access logs and the Performance Monitor.

Cut, copy, and paste

This release adds Windows-like cut, copy, and paste functionality to objects within a data flow, work flow, or job. You can select multiple objects and copy them either within the same flow or to a different flow.

Variables and Parameters dialog

The Variables and Parameters dialog has been enhanced to allow in-place editing. You can edit fields either directly in the Variable and Parameter dialog or from the Properties dialog of each object.

Column propagation

This release provides the ability to add a column across all or part of a data flow. The Propagate Column From command adds an existing column from an upstream source or transform through intermediate objects to a selected endpoint. Columns are added in each object with no change to the data type or other attributes.

Change multiple column properties

With this version of SAP BusinessObjects Data Services, you can quickly change a range of field characteristics through the File Format Editor. This

feature saves you time when you need to change the data type properties and content type properties of multiple rows of data.

Citrix support simplified

The method for publishing client components in a Citrix environment has been simplified with the inclusion of two scripts that allow the Designer and Locale Selector to be run safely by multiple users.

Dockable View Data window

The View Data window is now dockable so that you can keep it open while using other windows. For example, you can edit a lookup or decode function in a Query transform while looking at the actual data in the View Data window.

Product documentation

The Designer now includes embedded help for Data Quality transforms. When you click on option groups in the configuration editor, additional information related to your selection is displayed in a pane next to the Designer workspace. Embedded help is also available in the Match, Associate, and User-Defined transform editors, as well as the Match Wizard.

The technical manual is now available as a CHM file instead of PDF, which makes it easier to navigate and search.

Related Topics

- [Designer Guide: Data Flows, Data Quality editors](#)
- [Associate, Match, and User-Defined transform editors](#)
- [Reference Guide: Common Target table options](#)
- [Reference Guide, File Format](#)
- [Reference Guide: Row-Generation](#)
- [Management Console—Administrator Guide: Administrator Management, Configuring the report server](#)
- [Management Console—Administrator Guide: Exporting certification logs](#)
- [Designer Guide, Data Flows, Adding columns within a data flow](#)
- [Installation Guide for Windows: Citrix Support](#)

Trusted information

Geocoder transform

The Geocoder transform provides geographical data. The additional assignment data in this release includes assignment at all levels (primary number, postcode, and locality), indication of right or left side of the street, as well as a variety of census codes. The NAVTEQ Geocoding directories are available for the Geocoder transform. You must install SAP BusinessObjects Data Services version 12.2.0 to use the NAVTEQ directories.

Geocoder is flexible enough to accept new country directory data immediately after the directory data is released. There is no need to wait for the next Data Services release to begin using new country directory data. At the time of this publication, Geocoder uses US, German, Canadian and French directory data. Check with your sales representative for the most current list of available country directories.

Matching enhancements

The Match solution has been significantly enhanced to include the following functionality:

- Input sources

We have enhanced the ability to track input sources and their statistics through new reports, as well as provided new functionality to prioritize, protect, and flag records, all based on input source membership.

- Source types: Normal, Special, and Suppress.
- Source groups: Multiple input sources contained in one entity.
- Destination protection by input source for Best Record and Unique ID operations.
- Group Prioritization preferences based on input source.
- Output flags to help filter records based on their type (suppression matches, uniques, and so on).
- New Input Source Output select report.
- New Multi-source Match Frequency report.

- Inter-script matching

We now provide the ability to match data that are in different scripts (for example, Latin to Katakana or Latin to Cyrillic).

- Country-specific text to numbers
Text to numbers matching functionality improves matching accuracy and regional functionality. For example, you can match First to 1st.

Besides supporting English and CJKT, we now support countries in Europe, the Middle East, and Africa.
- Custom match criteria based on Universal Data Cleanse custom output fields and dictionaries

Match now supports custom Universal Data Cleanse outputs as criteria in the Match transform. After mapping your custom outputs into the Match transform, your outputs show up in the list of available criteria under your dictionary name.

Data Cleanse enhancements

The Data Cleanse solution has been significantly enhanced to include the following functionality:

- Support for Japanese data.
 - A new Japanese cleansing package solution is available. The Japanese cleansing package uses a special Japanese engine to parse kana and kanji script input. The Japanese dictionary and rule file work together to appropriately parse the data according to Japanese cultural standards.
 - The Japanese solution can parse and output data containing Japanese official and pronunciation names.
 - Blueprints containing sample jobs configured to illustrate best practice settings for common use cases involving Japanese customer data are available on the SAP Community Network at <https://www.sdn.sap.com/irj/boc/blueprints>.
- Enhanced Danish cleansing package more accurately parses name and firm data according to the Danish cultural standards.
- Adds a new transform option to limit word breaking criteria to only white space. This allows Universal Data Cleanse to tokenize alphanumeric product code data such as AF302 or AF-302 as single tokens and recognize their entries in a custom dictionary.
- Introduces format syntax in parsing rules to allow control over how parsed components are formatted for output. The format line defines the order of parsed subcomponents as well as the use of literal strings to separate them.

- Provides additional output fields for match standards for person and firm components as well as operational data parsed using a Universal Data Cleanse solution.
- Enhanced output for multiple family names. Adds Family_Name2 field to allow separate output fields for paternal and maternal family names.
- New script and gender classifications allow for specialized rules. For example, a rule could capture only male given names or only data in kanji script.
- Enhanced ability to parse data containing firm names that include the English possessive case, apostrophe S ('s).
- Allows gender assignment based on Given_Name2 if the gender of the prename and Given_Name1 is unassigned or ambiguous.
- Provides the transform option to filter the list of output fields displayed in the Output tab to show only the relevant output fields.

Global Address Cleanse

Global Address Cleanse has been enhanced to include the following functionality:

- You can now process records that include Cyrillic script. The new Script Code option supports processing of Greek and Cyrillic script.
- Japan address processing is improved with the new directory data and updates to the Japan engine.

Some improvements are:

- Improved parsing capability.
- Improved assignment of addresses in Japan that are missing locality-level information.
- Improved parsing of post office addresses.

The following Japan engine options have been removed:

- Multiline Input Order
- Multiline Move Blank Lines

The following Japan engine options have been added:

- Retain Postcode if Valid Format
- Dual Address

- New output fields have been added for Global Address Processing:
 - **Primary_Name_Full1-2:** The primary name, primary type, primary prefix, and primary postfix.

- **Primary_Name_Full3-4:** The primary name and primary type.
- **Primary_Number_Full:** The primary number, primary number description, and primary number extra.
- The Global Address Transform includes the following improvements to existing functionality:
 - Address line assignments for addresses in Brazil with missing elements.
 - Identification of secondary addresses in Brazil.
 - Identification of numerical attributes in address lines.
 - Assignment rate of addresses in Mexico.

Specify starting number for Row Generation transform

The new **Row number starts at** option in the Row Generator transform allows you to set the starting row number. Previously the row numbering started at zero (0) and was uneditable. With this release you can specify the number with which to start row numbering. You can enter an integer or use a global variable or substitution value. If you leave the option blank, your rows will start numbering at zero (0).

Related Topics

- [Designer Guide, Data Quality, Data Cleanse, About Japanese data](#)
- [Reference Guide: Data Quality Appendix, Data Cleanse reference, Data parsing details](#)
- [Reference Guide: Data Quality Appendix, Data Cleanse reference, Parsing rule organization](#)
- [Reference Guide: Country ID Options \(Global Address Cleanse\)](#)
- [Reference Guide: Data Quality Fields, Global Address Cleanse, Output Fields](#)
- [Reference Guide: Transforms, Descriptions of transforms, Data Quality transforms, Global Address Cleanse, Japan engine](#)
- [Reference Guide: Description of objects, File Formats](#)

USA Regulatory Address Cleanse transform

CASS Cycle M and NCOALink certification

This release of SAP BusinessObjects Data Services is certified by the USPS and meets the Coding Accuracy Support System (CASS) standards for accuracy of postal coding and address correction. The current CASS cycle is cycle M.

You must install this version of the software by August 1, 2009 to satisfy USPS requirements for CASS certification. It is recommended that you install to a test environment before that date so that you can make sure you get the processing results that you expect.

As a result of CASS certification, the software may produce a facsimile of USPS Form 3553, the CASS Summary Report. You will need a 3553 form to qualify mailings for postage discounts.

For more information about CASS, visit the USPS online at <http://ribbs.usps.gov/index.cfm?page=cassmass>

You'll also find information about CASS in the USPS's *Domestic Mail Manual*, which is also available on <http://ribbs.usps.gov>.

Related Topics

- [Reference Guide: USA Regulatory Address Cleanse](#)

NCOALink

This release of SAP BusinessObjects Data Services includes all of the recent NCOALink requirements. You must install this version of the software by October 1, 2009 to satisfy USPS requirements for NCOALink certification. (However, you should install the software by August 1, 2009 for CASS cycle M certification.) It is recommended that you install to a test environment before that date so that you can make sure you get the processing results that you expect.

NCOALink 100-record minimum requirement

This version of the software will not verify that your database has 100 unique records. This verification is required by NCOALink for security reasons. The USPS requires that you, the NCOALink Licensee, are the one who is responsible for making sure your data contains at least 100 unique records. Previously the software checked for 100 unique records.

NCOALink log file changes

The Customer Service Log (CSL), PAF, and Broker and List Administrator (BALA) log files have been updated to post values and counts that reflect the new NCOALink requirements that go into effect on October 1, 2009.

For example, the fields that support the information for the new Move Effective Date Distribution Analysis in the NCOALink Processing Summary report are included in the CSL file.

PAF: The software now includes the following new parameters for the PAF in the PAF Details option group:

Option	Description
E-Mail of person signing	The email address for the person who is signing the PAF. This parameter is optional.
Using alternative PAF	Select Yes if you are using a PAF that is not the USPS form, (you must have permission from the USPS).
Company website	The company website address for the person signing the PAF. This parameter is optional.

The information from these parameters are output to the PAF log file.

BALA: The software now includes the following new parameters for the BALA in the Contact Details option group:

Option	Description
Customer company website	The website of the broker or list administrator for which you are performing the job. This parameter is optional.

Move Effective Date Distribution Analysis

The NCOALink Processing Summary Report now includes a new section called the Move Effective Date Distribution Analysis. The analysis will provide you and the USPS with important data regarding move updates. The Move Effective Date Distribution Analysis section of the report shows the number of records in each category (new address provided, new address not available, and new address not provided) during specific time frames (in months): 0-3, 4-6, 7-12, 13-18, and 19+.

Functionality changes in SAP BusinessObjects Data Services 3.1.1.0 (12.1.1.0)

Changes related to functionality associated with DPV and LACSLink were made in Data Services 12.1.1.0 (3.1.1.0) that users who did not update to that version need to be aware of.

- For changes related to the process of unlocking DPV or LACSLink directories when a false positive address is encountered, see DPV security or LACSLink security in the *Reference Guide*.
- For changes related to required options in the USPS License Information group when DPV or LACSLink functionality is enabled, see USPS License Information in the *Reference Guide*.
- If you are a non service provider who uses DPV or LACSLink, and you want to bypass any future DPV or LACSLink directory locks, you can utilize the Alternate Stop Processing functionality. You must obtain the proper permissions from the USPS, provide proof of permission to SAP customer support, and then customer support will provide a key code that disables the DPV or LACSLink directory locking. There is no extra charge for this key code. For more information about the stop processing, see the Technical Manuals.

Related Topics

- [Reference Guide: Mover ID and NCOALink log files](#)

- [Reference Guide: NCOALink Processing Summary report](#)
- [Reference Guide: DPV security](#)
- [Reference Guide: LACSLink security](#)

DPV information in US Addressing report

The software includes additional information in the US Addressing report in the DPV Summary section:

DPV No Stats — The number of addresses processed by the USA Regulatory Address Cleanse transform that were marked as DPV No Stats.

DPV Vacant — The number of addresses processed by the USA Regulatory Address Cleanse transform that were marked as DPV Vacant.

Related Topics

- [Reference Guide: US Addressing report](#)

CASS Cycle M

This section explains the changes and additions that have been made to the USPS Regulatory Address Cleanse transform to support CASS cycle M requirements.

This release of SAP BusinessObjects Data Services is certified for CASS cycle M. You must install this version of the software by August 1, 2009 to satisfy USPS requirements. It is recommended that you install to a test environment before that date so that you can make sure you get the processing results that you expect.

New options for abbreviating addresses

There are new parameters in the Standardization option group for address abbreviations. While these options are not required for CASS certification, you may want to enable them for addresses that are printed on address labels with limited character space. SAP is required to provide you with these options.

Use USPS primary name abbreviation— Provides users with a method of outputting a 30-character primary name (address) line.

CASS Cycle M requires that the software provide you with a way to output primary name (address) lines of 30 characters or less when the output address line exceeds 30 characters. The abbreviated version of the address

line only occurs when the output address is greater than 30 characters. If the output address line is 30 characters or less, the street name is not abbreviated.

Use USPS locality abbreviation — Provides users with a method of outputting a 13-character locality1 (city) line.

The USPS has a 13-character locality1 (city) name for many cities in the city/state file. With CASS Cycle M, the software is required to provide a 13-character locality1 (city) name upon your request if one exists. If the input city name is not valid (for example, it is a nonmailing city name), the software relies on other settings in the job to determine what to output for locality1. If the city name is longer than 13 characters, the software will return an abbreviation that is 13 characters or less. If the city name is already 13 characters or less, the software will not abbreviate it.

Firm matching

The software now adheres to CASS Cycle M rules regarding addresses that contain a ZIP+4 on input. Previously, the software changed the ZIP+4 for the high-rise address, and not the firm address when an input ZIP+4 did not match the firm name or the unit number in the ZIP+4 file.

With this release, when the input address has a firm ZIP+4 that is valid for the address, the software must retain the input firm ZIP+4 even if the suite number is not provided or the firm name does not match. If the input record has a suite number and/or firm name, the software must retain them even if they don't match the directory.

Include the output field Firm in your job setup. The software posts the directory firm value to the Firm field when the input firm name is close (based on CASS rules) to the firm that is mentioned in the directories. When the input firm is not a close enough match to the firm in the directories, the software posts the input firm to the Firm field.

Note:

The new rule will not affect the current ability to run in non-CASS mode and assign addresses based on input ZIP+4 codes.

DPV validation of secondary zero

When an input address contains a pound sign (#) as a unit designator, and the secondary range is 0, the software will not assign the DPV status of Y

(the address is a confirmed delivery point. The primary range and secondary range (if present) are valid) and DPV footnotes of AA (ZIP+4 match) and BB (All components match DPV) unless the directory file also shows a zero in the secondary range.

Under CASS Cycle M rules, the software must return a status of S (secondary address not confirmed) and footnotes of AA (ZIP+4 match) CC (secondary address invalid) if there are no zeros in the ZIP+4 file.

Unique ZIP Codes

CASS Cycle M has specific rules about assigning unique ZIP Codes to addresses:

Note:

If the input city/state does not match the input ZIP Code, the normal last line matching rules are used to determine potential addresses for matching.

Definitions:

"Unique ZIP Code" — USPS-assigned ZIP Code for a company, government agency, or entity that has sufficient mail volume based on average daily volume of lettersized mail received, availability of ZIP Code numbers in the postal area, and USPS cost-benefit analysis.

"Exact match" — Matches to an address that has had no additions, deletions, or modifications to any component with the exception of the unit designator.

Rule 1: When the input address does not have a ZIP Code, the software can assign a unique ZIP code based on an exact address match, and DPV confirmation.

- If the address matches to a non-unique ZIP Code, and it DPV confirms, the software returns the non-unique ZIP Code.
- If the address is an exact match to a non-unique ZIP Code, but it does not DPV confirm, the software may return a unique ZIP Code, if one exists for the address.
- If the address is an exact match to a unique ZIP Code, the software may match with a unique ZIP Code if there is no exact address match that DPV confirms in the non-unique ZIP Codes.
- If either a firm match exists, or there is only one firm record for a unique ZIP Code, the software will make a firm level match (even if firm name doesn't match) in the unique ZIP Code.

Rule 2: When the input address has a unique ZIP Code, the software may match to a non-unique ZIP Code if the address line matches exactly, and the non-unique ZIP Code DPV confirms.

Rule 3: When the input address has a unique ZIP Code with a ZIP+4, the ZIP+4 is retained whether it exists in the ZIP+4 directory or not, and as long as the city/state matches the ZIP Code or the input address does not have a city and state.

Rule 4: When the input address has a non-unique ZIP Code, the software matches it to a record with a unique ZIP Code if there is an exact address line match and the input address does not have an exact match to a non-unique ZIP Code.

Preferred Address

CASS cycle M requires that you output USPS-preferred addresses and not alias-type addresses when you are in CASS Certification mode. Therefore, if your existing jobs have **Disable Certification** set to No, the **Address Line Alias** option must be set to Convert to generate a USPS Form 3553.

When you set the **Address Line Alias** to Preserve, the software will not produce a USPS form 3553, which is required for CASS certification.

Non-CASS mode: When you set up the transform for non-CASS mode, the software returns the address based on your job setting of Convert or Preserve. The software will not produce a USPS Form 3553 in non-CASS mode.

Note:

Migration will not update your existing USPS Regulatory Address Cleanse jobs when **Disable Certification** or **Address Line Alias** options use a substitution variable. Instead you will receive a warning message.

Related Topics

- [Reference Guide: USA Regulatory Address Cleanse, Standardization options](#)
- [Reference Guide: Data Quality fields, Output fields, DPV_footnote option](#)
- [Reference Guide: Data Quality fields, Output fields, DPV_status option](#)

Required false positive log for all NCOALink user types

The USPS has additional security to prevent DPV or LACSLink abuse by including false-positive addresses within the DPV or LACSLink directories.

The USPS requires a false-positive Log when you run the software with DPV and/or LACSLink enabled. If your database contains a false positive address, the software creates a false positive log file. The software creates a log file for each mailing list that contains a false positive record.

In the past it was only required for NCOA Limited and NCOA Full Service license types. Now the USPS is requiring the False Positive Log for all NCOA licensee types: Limited Service Providers, Full Service Providers, and End Users.

Note:

The USPS requires customer information in the false-positive log file. Therefore, you must complete the required fields in the USPS License Information option group when you have DPV and/or LACSLink enabled.

Related Topics

- [Reference Guide: DPV security](#)
- [Reference Guide: LACSLink security](#)

Pound sign (#) as unit description

Input addresses with a pound sign (#) indicator of secondary address components can now be output to specific secondary address fields instead of being output to extraneous fields. With this release, the USA Regulatory Address Cleanse transform provides an option to output the pound sign (#) when present in secondary address components to the Unit_Description and Unit_Number output fields.

Related Topics

- [Reference Guide: Transforms, USA Regulatory Address Cleanse](#)

Updated LACSLink output fields

SAP BusinessObjects Data Services introduces a new field class named Pre_LACSLink. With the new field class, the following output fields will be remapped: PRE_LACSLINK_POSTCODE and PRE_LACSLINK_RECORD_TYPE. Any future projects should include the two existing fields (see table below) to hold the pre-LACSLink information.

Note:

Pre_LACSLink field class type fields retain the address components that were processed prior to the LACSLink processing.

Field	Old field class	Remapped to	New field class
PRE_LAC-SLINK_POSTCODE	Best	POSTCODE1	Pre-LACSLink
PRE_LAC-SLINK_POSTCODE	Correct	POSTCODE1	Pre-LACSLink
PRE_LAC-SLINK_POSTCODE	Move-updated	N/A*	N/A
PRE_LAC-SLINK_RECORD_TYPE	Best	AD-DRESS_TYPE	Pre-LACSLink
PRE_LAC-SLINK_RECORD_TYPE	Correct	AD-DRESS_TYPE	Pre-LACSLink
PRE_LAC-SLINK_RECORD_TYPE	Move-updated	N/A *	N/A

* The move-updated versions of the PRE_LACSLINK_POSTCODE and PRE_LACSLINK_RECORD_TYPE fields will not migrate to the new version of the software. If you want to delete the field from your current jobs, you must do so manually.

Migration will not change any current jobs that contain the non-supported fields. Instead the software issues a warning that the fields are no longer supported.

Related Topics

- [Reference Guide: Data Quality Fields, USA Regulatory Address Cleanse](#)

IMB Mailer ID option

The Intelligent Mail Barcode (IMB) Mailer ID is a unique 6-digit or 9-digit numeric code assigned to mailers by the USPS based on their annual mail volumes. Now you can include this number in the USA Regulatory Address Cleans transform. It will then appear on the NCOALink Processing Acknowledgement Form (PAF) log.

Related Topics

- [Reference Guide: USPS License Information options](#)

Intelligent truncation

This version of the software includes intelligent truncation. With intelligent truncation the software abbreviates address lines so that the best possible address is output.

When the number of characters in the output is greater than the length specified for the output field, the software attempts to truncate the output data to fit in the output field without eliminating vital address data. Intelligent truncation abbreviates the output data first, and if it still doesn't fit the output buffer, it truncates the data.

Intelligent truncation applies to specific output fields.

For the following fields, intelligent truncation will be applied if the address class is DELIVERY:

- LOCALITY1_LLIDX
- LOCALITY1_NAME
- LOCALITY1_ALTERNATE
- LOCALITY1_OFFICIAL
- EXTRA[1-10]
- MULTILINE[1-12]
- LASTLINE
- FIRM

For the following fields, intelligent truncation will be applied if the address class is DELIVERY or OFFICIAL:

- PRIMARY_SECONDARY_ADDRESS

- PRIMARY_ADDRESS
- PRIMARY_NAME

There are no options to set this up in the US Regulatory Address Cleanse transform. The transform does this automatically when you include the applicable output fields.

If the new **Use USPS Primary Name Abbreviation** and/or the **Use USPS Locality Abbreviation** parameters are enabled, the software uses those abbreviations first. If the values don't fit within the length of the output fields, then the intelligent truncation will occur.

Related Topics

- [Reference Guide: Standardization options, Use USPS Locality Abbreviation option](#)

Enterprise class

Object creation XML toolkit

The object creation XML toolkit is a new collection of utilities and features that enable you to programmatically create objects such as jobs, data flows, and work flows from your own application and then import, validate, and execute them in SAP BusinessObjects Data Services.

The object creation XML toolkit includes:

- A documented XML format for creating objects outside of the Designer.
- Web service operations to import, validate, and delete objects, and to compact the repository.
- The ability to export existing objects in the XML format, while excluding non-executable elements.

WS-Security support

WS-Security is a communications protocol that applies security to web services at the message level. It defines how integrity and confidentiality can be enforced, as well as how to attach signatures, encryption headers, and security tokens to web service messages.

In this release, SAP BusinessObjects Data Services includes WS-Security support for the native web service datastore. WS-Security can be configured through the native web service datastore options and an external policy file.

Executing SAP NetWeaver BW jobs from the Designer

In this version, you can now load data to SAP NetWeaver Business Warehouse by executing the job from the Designer instead of scheduling it in BW. This will increase usability in development and test environments and enable development and execution from the same application without needing to switch between different applications. Existing functionality is still supported.

RFC server enhancement for SAP

The Management Console now includes a new RFC Server Interface for configuring, managing, and monitoring connections that use the Data Services RFC server for connecting to SAP applications. You can use the enhanced RFC server to read from Open Hub destinations and execute Data Services jobs from SAP NetWeaver Business Warehouse.

Open Hub Destination service

The software now supports the Open Hub Destination service to extract data from SAP NetWeaver Business Warehouse. You import Open Hub tables into Data Services and use them as sources in regular data flows. From a Data Services job, you can now start the BW process chain that loads data from the InfoProviders into an Open Hub Destination table, receive notification when the data is available, read the data, and delete the data from the Open Hub Destination table after successfully reading the data.

Web service security settings

To ensure the security of your software, the security setting is enabled by default for all built-in web service operations. With the enabled security, a valid login is required before operations such as executing jobs, getting logs, or creating new objects are executed. You can turn off security for each operation individually in the Management Console.

Be aware that the enabled security settings may cause your existing built-in web service calls to fail. To verify your security settings, log into the Management Console, select **Administrator > Web Services**, and click the **Web Services Configuration** tab. This does not affect any of your own jobs that you have exposed as web service operations.

Saprfc.ini parameter file support

The software now supports the use of the `saprfc.ini` parameter file. The SAP RFC library reads the `saprfc.ini` file to determine the connection type and all RFC-specific parameters necessary for connecting to an SAP system, or to register an RFC server program at an SAP gateway and wait for RFC calls from any SAP system.

MERGE statement support in Microsoft SQL Server 2008 and DB2 targets

Previous versions of SAP BusinessObjects Data Services supported MERGE statements for Oracle targets. This release adds support for MERGE statements in Microsoft SQL Server 2008 and DB2 targets. The MERGE statement allows the Optimizer to improve the performance of auto correct load functionality.

Unicode setting for Persistent Cache databases

When you choose to create or edit a Persistent Cache database, you will see a new option called **Force UTF-16 codepage**. When you select this option, the entire data flow runs in Unicode (UTF-16), and caches the data in a multi-byte format. If you deselect this option, the data flow runs based on the engine runtime locale. You may want to use this option if you have several data flows that are dependent on each other and also have a mix of single-byte and multi-byte data. Setting this option ensures that the dependent data flows are compatible. However, if you have single-byte data and you select this option, you may see performance degradation in the data flow that uses this persistent cache.

Stored procedures

The software now supports the ability to use stored procedures when creating a Teradata datastore configuration. You can enable this feature by checking the box "Disable CALL to EXEC Conversion" on the Teradata ODBC Driver Options dialog.

Related Topics

- [Integrator's Guide: Object creation XML toolkit](#)
- [Integrator's Guide: Consuming external web services in SAP BusinessObjects Data Services, Enabling WS-Security support](#)
- [Management Console Administrator Guide: RFC Server Management](#)

- *Supplement for SAP: Connecting to SAP NetWeaver Business Warehouse, Reading an Open Hub table from SAP NetWeaver BW*
- *SAP Supplement: Reading an Open Hub service from SAP NetWeaver Business Warehouse*
- *Management Console Administrator Guide: Using the saprfc.ini file*
- *Performance Optimization Guide: Maximizing push-down operations to the database server*