



Release Notes

- SAP BusinessObjects Data Services 4.1 Support Package 1 (14.1.1.0)

2012-11-22

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About SAP BusinessObjects Data Services 4.1 Support Package 1

Welcome to SAP BusinessObjects Data Services 4.1 Support Package 1, version 14.1.1.0. SAP BusinessObjects Data Services delivers a single enterprise-class solution for data integration, data quality, data profiling, and text data processing that allows you to integrate, transform, improve, and deliver trusted data to critical business processes. It provides development user interfaces (Designer and Workbench), metadata repository, data connectivity layer, run-time environment, and management console—enabling IT organizations to lower total cost of ownership and accelerate time to value. With SAP BusinessObjects Data Services, IT organizations can maximize operational efficiency with a single solution to improve data quality and gain access to heterogeneous sources and applications.

Documentation

To obtain the latest version of documentation including the most up-to-date version of these Release Notes, visit the SAP Help Portal at (<http://help.sap.com/bods/>) and follow the appropriate product guide links.

You can also access the latest information, including additional installation and configuration troubleshooting, pertaining to the Data Services 4.1 SP1 release by reading [SAP Note 1530081](#) on the SAP Service Marketplace.

Before you install

Before installing the software, read this entire document. It contains important information about this product release including installation notes, details regarding known issues, and important information for existing customers.

This version may be installed as a new instance of the software or may be used as an update over an existing SAP BusinessObjects Data Services or Data Integrator instance in the same installation directory. For a new or update installation, follow the instructions in your *Installation Guide for Windows* or *Installation Guide for UNIX*.

1.1 SAP BusinessObjects information resources

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

Useful addresses at a glance:

Address	Content
Customer Support, Consulting, and Education services http://service.sap.com/	Information about SAP Business User Support 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 information management 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.
Product documentation http://help.sap.com/bods/	SAP BusinessObjects product documentation.
Supported Platforms (Product Availability Matrix) https://service.sap.com/PAM	Get information about supported platforms for SAP BusinessObjects Data Services. Use the search function to search for Data Services. Click the link for the version of Data Services you are searching for.

Compatibility update

For the latest updates in compatibility, see the *Product Availability Matrix* document located in the SAP Service Marketplace: <https://service.sap.com/PAM>.

Information platform services installation

In order to install Information platform services, Data Services customers should use `InstallIPS.exe` (`InstallIPS` on Linux) to launch the installation and not the default installation program `setup.exe`. Using the `InstallIPS` executable will allow Data Services customers to install Information platform services with an embedded license key.

Restrictions update

The following restrictions apply to SAP BusinessObjects Data Services version 14.1.1.0.

Installation restrictions

The SAP BusinessObjects Data Services installer is available in English only.

Modify installation restriction

During a "Modify" installation, installed features are incorrectly displayed as unchecked (not installed).

Symptom

In the maintenance installation window, if you choose **Repair** first, then click **Next**, then click **Back**, then choose **Modify**, and then click **Next**, the feature tree selections are incorrect: No feature is shown as already installed.

If you proceed with the incorrect selections, all unselected features (if previously installed) will be uninstalled and only the current features shown as selected will be kept or installed.

Environment

Data Services 4.x

Resolution

Exit the current maintenance installation window by clicking **Cancel** and then clicking **Exit Setup**. Re-launch the maintenance installation, select **Modify**, and click **Next**. This refreshes the feature tree selections and correctly displays the installed features as checked. You can now proceed by adding or removing features as needed for a "Modify" install.

See Also

Other troubleshooting tips can be found in the knowledge base article 1530081

Other restrictions

- Support for SAP Master Data Services as an SAP BusinessObjects Data Services datastore for source or target relies on the availability of the first generally available SAP Master Data Services release.

SAP Master Data Services is a new SAP MDM solution built on SAP HANA and will provide the capability to consolidate and enrich Customer master data.
- For Sybase IQ versions prior to 15.x, Data Services does not support named pipes if the Job Server and Sybase database are not on the same computer.
- The installation path of Data Services cannot contain multi-byte characters.

- The functionality to create BusinessObjects Universes from datastores is not available from the Windows 64-bit Data Services Designer. This functionality is available from the 32-bit Data Services Designer only.
- The functionality to read from and write to Data Federator data sources is not available on the Windows 64-bit Data Services Designer and Job Server due to unavailability of 64-bit ODBC driver for Data Federator. This functionality is available for the 32-bit Data Services Designer only.
- The Text Data Processing Entity Extraction transform assumes that the format of an input document is consistent. Processing mixed-format input (for example, a binary object embedded in an HTML e-mail message) is not supported.
- The Text Data Processing Entity Extraction transform assumes that the language of an input document has been selected correctly. Processing content using the wrong Text Data Processing language (for example, processing a Simplified Chinese document using the English language) can result in incorrect results or longer processing times.
- When you use an Attunity Connector datastore, all Data Services features are available except the following:
 - Bulk loading
 - Imported functions (imports metadata for tables only)
 - Template tables (creating tables)
 - Datetime data type supports up to 2 sub-seconds only
 - Loading timestamp data into a timestamp column in a table, because Attunity truncates varchar data to 8 characters, which is not enough to correctly represent a timestamp value.
- Bulk loading data to DB2 databases running on z/OS or iSeries systems is not supported.
- For Data Services job servers on UNIX/Linux, connectivity to Microsoft SQL Server (source/target) is available through Data Direct drivers. For these ODBC datastores, bulk loading is not available, so there is no bulkloading to MS SQL Server from UNIX/Linux job servers.
- The following table describes the Data Services support for multi-byte metadata, Data Profiler, the lookup_ext function, and View Data.

Note:

Data Services supports multi-byte metadata for table names, column names, file names, and file paths.

Support for multi-byte metadata depends on comparable support in the applications, databases, and technologies with which Data Services interoperates.

Source/Target	Multi-byte metadata	Data Profiler	Lookup_ext	View Data
Adapter	Yes	No	No	No
Attunity connector for mainframe databases	No	Yes	Yes	Yes
BusinessObjects Enterprise	Yes	n/a	n/a	n/a
COBOL Copybook	Yes	No	No	Yes
DB2	Yes	Yes	Yes	Yes

Source/Target		Multi-byte metadata	Data Profiler	Lookup_ext	View Data
Flat File		Yes	Yes	Yes	Yes
SAP HANA		Yes	Yes	Yes	Yes
HP NeoView		Yes	Yes	Yes	Yes
Informix		Yes	Yes	Yes	Yes
JD Edwards		No	No	Yes	No
Memory Datastore		Yes	Yes	Yes	No
Microsoft Excel		Yes	No	No	Yes
Microsoft SQL Server		Yes	Yes	Yes	Yes
MySQL		Yes	Yes	Yes	Yes
Netezza		No	Yes	Yes	Yes
ODBC		Yes	Yes	Yes	Yes
Oracle		Yes	Yes	Yes	Yes
Oracle E-Business Suite		No	Yes	Yes	Yes
People Tools		No	Yes	Yes	Yes
Persistent Cache		Yes	No	Yes	Yes
Salesforce.com		Yes	No	No	No
SAP Business Suite					
	Extractor	No	No	No	Yes
	Hierarchy	No	No	No	Yes
	IDoc	No	No	No	No
	Table	No	Yes	No	Yes
SAP BW Source					
	IDoc	No	No	No	No
	Open Hub	No	No	No	No

Source/Target		Multi-byte metadata	Data Profiler	Lookup_ext	View Data
	Table	No	Yes	No	Yes
SAP BW Target		No	No	No	No
Siebel		Yes	Yes	Yes	Yes
Sybase ASE		Yes	Yes	Yes	Yes
Sybase IQ		Yes	Yes	Yes	Yes
Teradata		Yes	Yes	Yes	Yes
XML		Yes	No	No	Yes

- When using Microsoft Excel as a data source, the following restrictions apply:
 - Concurrent access to the same Excel file will not work. For example, View Data will not display if the file is currently open in Excel.
 - Because an Excel column can contain mixed data types, some data type conversions may produce unexpected results; for example, dates might convert to integers.
 - Workbooks with AutoFilter applied are not supported. Remove the filter before importing the workbook.
 - Workbooks with hidden rows and/or columns are not supported.
- HP Neoview support:
 - ISO configuration: HP recommends that you use only the ISO column (default). For data consistency, only one client code page should be used.
 - SJIS configuration: HP recommends that you use only the ISO column (default). The data should be in SJIS.
 - Unicode configuration: HP recommends that you use only the UCS2 column (default). The data can be in any code page.
- To ensure security for your Data Services environment, use a firewall to prevent remote access to administrative functions. For information about the ports required for Data Services components, see the *Administrator's Guide*.
- SAP HANA SP3 version does not support NULL values for scalar INPUT parameters when calling SAP HANA stored procedures. You are expected to manage the NULL values in the data before invoking the SAP HANA stored procedures.
- When executing a Data Services job from BW, make sure the Data Services job has only one BW load data flow with only one BW loader as a target. Having more than one BW loader results in one of the following error messages:
 - Load data to BW failed: RequestID = <REQU_DDVR1591QKPU07VJMPZX8PUBA20121018153225>, Packet Number = <1>, Error = RFC_ABAP_MESSAGE, , SY-MSGTY: X, SY-MSGID: 00, SY-MSGNO: 341, SY-MSGV1: MESSAGE_TYPE_X)- The current application triggered a termination with a short dump.
 - Load data to BW failed: RequestID = <>, Packet Number = <999999>, Error = RFC_ABAP_RUNTIME_FAILURE-(Exception_Key: PERFORM_PARAMETER_MISSING)- Missing parameter with PERFORM.

The reason this happens is that when you use two loaders, the BW system will see the same packet number for a request ID two times. The error occurs because it has already received the same packet number before.

Product dependencies update

- In order to use the Teradata interface on a Windows 64-bit platform, you must set the following environment variable on the Windows job server machine:

```
LIB_32BIT_TERADATA=<Teradata 32-bit client location>
```

This step is necessary due to the unavailability of Teradata client utilities on Windows 64-bit platforms.

- The Microsoft Excel interface has software dependencies in SAP BusinessObjects Data Services 4.1. Special care must be taken when installing Data Services on a machine with a Microsoft Office version lower than 2010. For details, see the *Installation Guide*.
- The SAP BusinessObjects Data Services XI 4.0 (version 14.0.0 and above) Open Hub feature is supported in SAP BW 7.01 patch level 003 and above.

As a pre-requisite, the following SAP Notes must be implemented before using this feature:

- [SAP Note 1270828](#), [1294774](#): Resolves table import issues.
- [SAP Note 1330568](#) version 3: Resolves table reading issues.

For the latest information about Open Hub, refer to [SAP Note 1343606](#) in the SAP Service Marketplace.

- For the latest information about Data Services SAP extractor support, see [SAP Note 1711647](#).
- Support for the Allow Merge option for auto correct load is provided for the following targets: Oracle 9i and above, IBM DB2 8.2 and above, and Microsoft SQL Server 2008.
- Due to a vendor limitation with Oracle 10G, while running Data Services on UNIX using Oracle Client on UNIX and Oracle Server on Windows, the Oracle Client version must be 10.2.0.1 or higher.
- The Data Services log-based changed-data capture (CDC) works with the following database versions:
 - Oracle version 9.2 and above compatible versions for synchronous CDC and Oracle version 10G and above compatible version for asynchronous CDC.
 - Microsoft SQL Server 2000, 2005, and 2008.
 - Attunity for mainframe sources using Attunity Connect version 5.1 and above.
 - Data Services 4.0 and later versions now support extracting data from the SAP Business Suite applications through the business content extractors. In order to fully benefit from this feature, there are some minimum support package requirements for your NetWeaver environment. In addition to the support package, an additional SAP Note needs to be applied to your NetWeaver environment to release the extractors and make them visible for Data Services. These dependencies are documented in [SAP Note 1522554](#).

For older versions of your SAP Business Suite (pre-ECC6) or when the required support package is not installed, extractors can still be used, but with limited functionality. This includes:

- No support for delta queues

- Supported extractor types: Transaction and Attribute

Deprecated functionality

Data Services 4.1

The following functionality, which had been available with Data Services XI 4.0, is no longer available:

- Text Data Processing:
 - Support for subentities in German and English.
 - The Entity Extraction transform no longer normalizes extraction output. For example, dates and currencies appear as they were found in the source text.
- SAP BusinessObjects Metadata Integrator

Data Services XI 4.0

The following functionality, which had been available with Data Services XI 3.x, is no longer available:

- HP-UX has been removed as a supported platform. Disregard mentions of HP-UX in any documentation that may contain references to this platform and refer to the PAM for information on all supported platforms.

Data Services XI 3.x

The following functionality, which had been available with Data Services XI 3.x, is no longer available:

- HP-UX has been removed as a supported platform.
- Data Cleanse dictionary functionality (moved to the Cleansing Package Builder module of Information Steward), including:
 - Creating and deleting dictionaries
 - Adding, editing, and deleting entries, outputs, and classifications
 - Searching
- Data Cleanse tab in a target table's View Data feature
 - Add Firm Standards
 - Add to Dictionary
- BWA/TREX datastore database type and its related functions
- Index Designer
- Graph tabs that depict Gantt charts in the Performance Monitor and Operational Dashboard are not available in the SAP BusinessObjects Data Services XI 3.2 version 12.2.0.0 or later releases. Table views of the data are still available.
- CaShowL

Data Integrator XI Release 2 Accelerated (11.7)

The following functionality, which had been available with Data Integrator XI Release 2 Accelerated (11.7), is no longer available:

- Log-based changed-data capture (CDC) with IBM DB2 UDB for Windows, z/OS, IMS/DB, and IBM VSAM.

Data Quality XI Release 2

The following functionality, which was available with Data Quality XI Release 2, is no longer available in SAP BusinessObjects Data Services:

- Web Services: .Net Deployment
- Compound transforms
- Shared options
- Unique ID Record Stem support in Candidate Selector
- Pre/Post SQL Operations in Reader transform
- Per Dataflow Mode in User-Defined transform (use workflow and scripts instead)
- Enabling and disabling transforms in a dataflow
- Thread and watermark settings on a per-transform basis
- Observer transform
- Progress Service transform
- Integrated batch API
- Admin methods in Message Client API
- JIS_Encoding, UTF-32 for flat files
- Python methods for User-Defined transform
- Generic Per Collection Mode Sort in Sorter transform
- DBASE3 file formats

Upgrade considerations

Installing Data Services 4.1 SP1

Before you upgrade, be sure you refer to the Restrictions update section of these *Release Notes* for important installation information about upgrading from previous versions of Data Services (XI 3.x, 4.0, 4.1, and Data Integrator 11.7).

Data Services 4.1 SP1 can be installed on top of an existing version of Data Services 4.0. If you are upgrading from a version of Data Services prior to 4.0, you must uninstall those versions before installing version 4.1.

Note:

Refer to [SAP Note 1723342](#) for possible upgrade scenarios and known issues.

Installation sequence

1. If you have an existing installation of Business Intelligence platform or Information platform services (IPS), you must install Business Intelligence platform (BIP) 4.0 SP4 (patch version) or Information platform services (IPS) SP4 (patch version).
2. Uninstall any Data Services versions prior to 4.0.
3. Install Data Services 4.1.

Before starting the update procedure, make a backup of your Data Services configuration files (for example, `DSConfig.txt`). During the installation of Data Services 4.1 SP1, you can choose to reuse an existing configuration and repository from previous Data Services 4.0 installation.

Refer to the SAP BusinessObjects Business Intelligence platform "Backing Up and Restoring" topic in the [SAP BusinessObjects Business Intelligence platform Administrator Guide](#) before uninstalling it.

Upgrade Guide

See the *Upgrade Guide*, which is available at **Start > Programs > SAP BusinessObjects Data Services 4.1 > Data Services Documentation > All Guides > Upgrade Guide**. You can also check <http://help.sap.com/bods> for documentation updates.

The *Upgrade Guide* includes three sections:

- *Upgrading to SAP BusinessObjects Data Services 4.1 SP1*: Helps you upgrade from previous versions (Data Services 3.x, 4.0, 4.1 and Data Integrator 11.7) to SAP BusinessObjects Data Services 4.1 SP1.
- *Data Services Behavior Changes*: Describes behavior changes associated with all versions of Data Services and Data Integrator 11.7.0 and later.
- *Data Quality to Data Services Upgrade*: Contains new features and explains how to upgrade from previous Data Quality releases prior to 12.0.0. You can perform a one-step upgrade if you currently use Data Quality XI 11.7 or later.

Known issues

This section lists known issues in descending order by internal issue identification tracking number. We also use these numbers in the release notes that accompany our support packages and patches. You can reference the issue ID when searching for the issue on our knowledge base or when speaking to SAP Business User Support.

When possible, workarounds are provided to help you resolve these issues.

For a list of resolved issues, see the *SAP BusinessObjects Data Services Customer Issues Fixed* document.

Issue ID	Description
ADAPT01662402	<p>If the Cleansing Package data has been installed and has not been modified with Cleansing Package Builder, when upgrading from Data Services 4.1 Patch 3 or prior to 4.1 SP1, the CP data will be inadvertently uninstalled.</p> <p>This uninstallation can be avoided by placing the CP Data ZIP file within the correct deployment unit location of the Patch installation, following the instructions in the Installation Guide. If the Patch install has already been completed, the CP Data can be reinstalled by utilizing the Modify install functionality as noted in the Installation Guide.</p>
ADAPT01656582	<p>The function <code>day_in_week</code> behaves differently for SAP HANA than what is stated in the Data Services documentation. When the <code>day_in_week</code> function gets push down to SAP HANA, the returned result is 0-6 (Monday - Sunday), with 0 being Monday and 6 being Sunday. The documentation states that the returned result is 1-7 (Monday - Sunday).</p>

Issue ID	Description
ADAPT01656567	<p>Viewing Data Services Auto Documentation fails while analyzing the lineage of a Data Services integrator source column after upgrading from an Data Services 4.0 version.</p> <p>To workaround this issue, remove and then re-add the Data Services Administrator Service.</p> <ol style="list-style-type: none"> 1. Log on to the Central Management Console as an administrator. 2. Navigate to Servers > Enterprise Information Management Services. 3. Right-click on the EIMAdaptiveProcessingServer server, and click Stop Server. Wait for the Server to stop. 4. Right-click on the EIMAdaptiveProcessingServer server, and click Select Services. 5. Remove the Data Services Administrator Service. 6. Click OK. 7. Right-click on the EIMAdaptiveProcessingServer server, and click Start Server. Wait for the Server to start. 8. Right-click on the EIMAdaptiveProcessingServer server, and click Stop Server. Wait for the Server to stop. 9. Right-click on the EIMAdaptiveProcessingServer server, and click Select Services. 10. Add the Data Services Administrator Service. 11. Click OK. 12. Right-click on the EIMAdaptiveProcessingServer server, and click Start Server. Wait for the Server to start.
ADAPT01632475	<p>If a job using Text Data Processing, which is pushed down to Hadoop, is killed, the Hadoop portion of the job will continue to run to completion. You can kill the Hadoop portion of the job by using the Hadoop utilities:</p> <pre>hadoop job -list: Lists all hadoop jobs.</pre> <pre>hadoop job -kill <job-id>: Kills a hadoop job with given id</pre> <p>You can also find the Hadoop job ID by finding the Pig Script directory, which is output by the Data Services job, and search the hdfsRead.err file found within for a line similar to:</p> <pre>12/04/19 15:00:02 INFO mapred.JobClient: Running job: job_201204131948_0015</pre> <p>In this example, the job ID would be <code>job_201204131948_0015</code>.</p>
ADAPT01632076	<p>For a high volume of data returned by native extractor, a memory issue can occur. You need to use R3 dataflow to take advantage of RFC streaming to overcome the memory issue.</p>

Issue ID	Description
ADAPT01629085	<p>Data Services limits browsing to only tables and views of a database that is configured in MySQL ODBC DSN for MyODBC driver 3.51.28 and above. Please refer to Oracle bug#13914518 for detail.</p> <p>If you want to import tables or views that belong to other MySQL databases, you can do so by selecting the "Import By Name" option.</p>
ADAPT01623686	<p>At the end of any mode of installation (including uninstallation), the UNIX installer incorrectly states: "Click Finish to exit this installation" (or "uninstallation"). It should state: "Press [Enter] to exit this installation".</p>
ADAPT01604091	<p>Inserting to Hive Tables in Append mode: Use the Append mode when loading Hive tables carefully. Although Hive 0.8 supports INSERT INTO command syntax for appending the data, it actually overwrites data in many cases. Loading from files as source to non-partitioned Hive tables is the only way the Append mode functions correctly. In other cases, such as loading files as source to partitioned Hive tables, using Hive tables as source, and using Hive tables as target (both partitioned and non-partitioned), the Append mode actually overwrites the existing data.</p>
ADAPT01601340	<p>Hive Table Source: While selecting from Hive table with both GROUP BY and ORDER BY, and when the reader SELECT is pushed to Hive, Hive returns the following error: "Error in semantic analysis: Invalid table alias or column reference".</p> <p>This is a bug in Hive. To avoid this error, it is recommended that you block ORDER BY by using a Merge transform between GROUP BY and ORDER BY so that ORDER BY is not pushed down to database.</p>
ADAPT01511272	<p>ABAP function modules cannot be called because of an SAP type conversion error within the ABAP transform due to data type mismatch.</p> <p>The workaround is to add a Query transform to convert all the columns that are used to map to SAP function input parameters, to exactly match the data type of the SAP function input parameters. Then, you must connect the newly added transform to the transform that makes the SAP ABAP function call.</p>

Previous release notes

You can view a list of known and fixed issue for past releases by going to the relevant SAP Note and scrolling down to find the Release Notes PDF document.

Release Version	SAP Note
Data Services 4.0 Patch 2.4	1708780

Release Ver- sion	SAP Note
Data Services 4.0 Patch 2.5	1718244
Data Services 4.0 Patch 2.6	1758350
Data Services 4.0 Patch 2.7	1770482
Data Services 4.0 SP3	1737287
Data Services 4.0 Patch 3.1	1770552
Data Services 4.1	1725915
Data Services 4.1 Patch 0.1	1752025
Data Services 4.1 Patch 0.2	1737304
Data Services 4.1 Patch 0.3	1752025
Data Services 4.1 Patch 0.4	1770482

Fixed issues

This document contains a list of issues that have been fixed in the Data Services 4.1 (14.1.1) release.

For the latest version of this document, see <http://help.sap.com/bods>, which includes fixed issues specific to Data Services version 14.1.1. For details on issues fixed in Data Integrator 11.7.3, and Data Services 12.0.0 and above, see the BusinessObjects Data Integrator Release Notes (11.7.3), BusinessObjects Data Services Release Notes (12.0.0, 12.1.0, and 12.1.1), and SAP BusinessObjects Data Services Release Notes (12.2.0, 12.2.1, 12.2.2, and 12.2.3) and the SAP BusinessObjects Data Services Customer Issues Fixed (14.0.0, 14.0.1, 14.0.2, 14.0.3, and 14.1.0).

The fixed issues are listed in descending order by internal issue identification tracking number. We also use these numbers in the release notes that accompany our support packages and patches. You can reference the issue ID when searching for the issue on our knowledge base or when speaking to SAP Business User Support.

Issue ID	Description
ADAPT01671178	Under certain circumstances, an address with redundant street level directory data would be flagged as tied and not assigned. This has been fixed in this release.
ADAPT01667982	Due to discrepancies between legacy status code logic and the modern implementation, some components were incorrectly showing as being updated. This has been fixed in this release.
ADAPT01667957	When a job has a Table Comparison transform that uses sorted input, the job might hang if the input source is empty. This has been fixed in this release.
ADAPT01666601	Due to problems with the "Postcode Priority" option, excluded addresses were not respecting the excluded postcode list and were being returned as non-assignable. This has been fixed in this release.
ADAPT01666556	In Canada, when assigning to a unique street address with a non-LVR postcode within a wider address range, the postcode was not being updated to reflect that of the unique address. This has been fixed in this release.
ADAPT01666361	In Canada, under some circumstances, particularly with French language addresses, a previously standardized address would fail to assign due to improper handling of multiple perceived street types. This has been fixed in this release.
ADAPT01665830	When an address in GR used an English type, the standard GR address format with leading primary type was used to output the address. An address in GR with an English primary type will now be output in an English format of primary number, primary name, primary type.

Issue ID	Description
ADAPT01665828	In TR, locality 2 information was being placed on the same line as the locality1. It is now being placed on the line above the locality1 in multiline output.
ADAPT01665825	Secondary address information will now be correctly placed on the same line as the address instead of on the line above it in multiline output.
ADAPT01665820	In HU, locality codes are not necessary when the postcode is correct. Both were being output, now the locality code will no longer be output when the postcode is correct.
ADAPT01664320	Global Address Cleanse will no longer add an alpha character when the input does not contain one and the Primary Number found in the directory has one. For example, if the directory contains a Primary Number of 19A and the input range is 19, 19 will be returned as a valid Primary Number.
ADAPT01661657	Locality 2 is now supported for the country of Belize and will be returned prior to the Locality1 information in the last line and multiline components.
ADAPT01660181	Global Address Cleanse will no longer change a Primary Name to make an assignment if the first character has to be changed to make the assignment. This was changed for all countries with the exception of countries that are certified (Australia, Canada, France, New Zealand, United States, and all of their valid territories).
ADAPT01659891	Global Address Cleanse is no longer returning the input Street Name as Locality2 information when there is not a Primary Number input. For example, previously if Eisdeweg was input without any range data, GAC would return Eisdeweg as the Locality2 because it is a valid Locality2 for the Locality1 of Maasmechelen. GAC now returns Eisdeweg as the Primary Name with a Primary Type of weg.
ADAPT01659792	Global Address Cleanse has updated the format of the Secondary information in the Multilines to reflect the correct format indicated in the Global Source Book reference.
ADAPT01658815	For Netherlands (NL) input to Global Address Cleanse, Postcode2 is no longer parsed as a Primary Type when it is a valid abbreviation for a Street Type. For example, when the input contains 1079 DR Amsterdam, DR is recognized as Postcode2 and not as a Primary Street Type.
ADAPT01652309	Starting the JBoss Application Server 5.0.1 when Data Services is deployed with the BusinessObjects Enterprise dswebobje component shows an error on startup. This error can be ignored as it has no effect on Data Services.
ADAPT01642613	Previously South Sudan (SS) was not a supported country within Global Address Cleanse and the Country ID. South Sudan is now supported.
ADAPT01641511	Global Address Cleanse now recognizes Postcode Identifiers, for example, PIN, CEP, CP, and so on.
ADAPT01627611	When using the automatic Export DQ Reports option and running a job (via Designer, command line, or Management Console), the reports were exported in English regardless of the locale chosen in Report Export Configuration inside the Management Console. This issue has been addressed and the locale chosen is now respected.

Issue ID	Description
ADAPT01626497	Global Address Cleanse now supports returning the County Name and County Code for US addresses when the US Engine is enabled. Region2 contains the County Name and Additional Info1 contains the County Code.
ADAPT01593915	NCOALink Certification Stage testing: The input data "V" was incorrectly recognized as a last name. The issue has been corrected and the record containing "V" is now processed correctly. NCOALink customers who self-certify NCOALink with the USPS must use the Data Services 14.1.1.0 version of the software when taking the certification test.
ADAPT01593911	NCOALink Certification Stage testing: A specific record incorrectly assigned a return code of 14. The correct return code of 16 is now returned for the address. NCOALink customers who self-certify NCOALink with the USPS must use the 14.1.1.0 version of the software when taking the certification test.
ADAPT01329050	For UK addresses, secondary address abbreviations were not recognized and converted to the preferred phrase. For example, Hse was recognized as House. This issue has been fixed in this release.

Previously fixed issues

You can view a list of fixed issues for past releases by going to the relevant SAP Note and scrolling down to find the Release Notes PDF document.

Release Version	SAP Note
Data Services 4.0 Patch 2.4	1708780
Data Services 4.0 Patch 2.5	1718244
Data Services 4.0 Patch 2.6	1758350
Data Services 4.0 Patch 2.7	1770482
Data Services 4.0 SP3	1737287
Data Services 4.0 Patch 3.1	1770552
Data Services 4.1	1725915
Data Services 4.1 Patch 0.1	1752025

Release Ver- sion	SAP Note
Data Services 4.1 Patch 0.2	1737304
Data Services 4.1 Patch 0.3	1752025
Data Services 4.1 Patch 0.4	1770482